PROLIFT HANDLING LTD

Contents

PROLIFT
HANDLING LTD

About Our Company

Dear Customer,

Prolift Handling Ltd was formed in 2013 and is a wholly Irish owned company.

We are the largest supplier and service provider of lifting, material Handling and Height Safety equipment in Ireland and also recognised throughout Europe as a leading distributor within our industry.

Prolift is an ISO9001 and ISO14001 accredited company and also a full and certified member of LEEA (Lifting Equipment Engineers Association).

The cornerstone of our business is to supply high quality, European manufactured products that meet all EN standards and regulatory requirements, whilst also striving to live up to our corporate responsibilities towards people and the environment.

We are delighted to present to you our new catalogue detailing the lifting, height safety and material handling equipment that we supply. We endeavour to provide only the highest quality products by being official distributors for leading European manufacturers such as Pewag, Modulift, LMS, Verlinde, TAWI, Reid Lifting and Kratos.

This catalogue is designed to give you an overview of our product range and also to give you and your team a platform to make an informed decision on which equipment may best suit your application.

If required, a more detailed product overview including specifications, user guides and data sheets can be found by scanning the QR code at start of each chapter or by visiting our website **www.prolift.ie**.

Our sales team are on hand to answer your calls and our field sales team would be more than happy to make a site visit to assist you further with your requirements.

Darragh Hickey
Director

David McElhinney
Director

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PROLIFT
HANDLING LTD

Chain and Chain Components

- Grade 80 Chain and Chain Components
- Grade 100 Chain and Chain Components
- Grade 120 Chain and Chain Components
- Fishing and Aquaculture Chains
- Stainless Steel Chain and Chain Components

Grade 80 Chains and Components

KWB Safety in action Super Alloy G 80 Characteristics

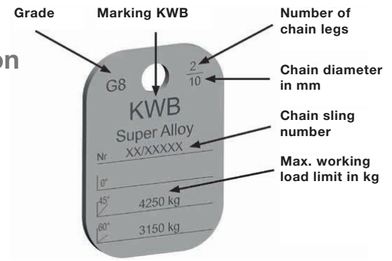
Chain Quality:	**Super Alloy Chain**	**SA**	Corresponds with EN 818-2 & machinery directive 2006/42/EC
Stress at Load Capacity Limit:			200 N/mm²
Test Stress:			500 N/mm² – corresponds to 2.5 times the load capacity
Breaking Stress:			800 N/mm² – corresponds to 4 times the load capacity
Breaking Elongation:			min. 20%
Bending acc. to EN 818-2:			0.8 x nominal diameter
Permissible Working Temperature:	**Super Alloy Chain**	**SA**	max. 400°C
	Components		max. 400°C
Grade marking:	**Super Alloy Chain**	**SA**	8
	Components		8
Surface:	**Super Alloy Chain**	**SA**	Black painted
	Components		Powder coated
Working Load Tag:	**Super Alloy Chain**	**SA**	

All the required data is shown on the working load tag.

Note: Working load tags should only be assembled acc. EN 818-4 and by competent persons. Working load tags should be used, solely when the respective chain & KWB components are assembled in the chain sling. Should alternative Working load limits arise in the chain sling through the use of special parts, the tags are impermissible. Disregard of these instructions can lead to material damage and personal injury. KWB will not assume liability.

Temperature	-40° to 200°C	above 200° to 300°C	above 300° to 400°C
Load Factor Super Alloy	1	0.9	0.75
Asymmetric Load Distribution	In this case the working load limit must be reduced by at least one chain leg, for example a 3-leg or 4-leg sling is to be classified as a 2-leg chain sling. In case of doubt, it must be supposed that only one of the chain legs carries the entire load.		
Edge Loads	R = larger than 2x chain Ø 	R = larger than chain Ø 	R = chain Ø or smaller 
Load Factor	1	0.7	0.5
Impact Load	slight impact	medium impact	strong impact
Load Factor	1	0.7	impermissible

Clear Identification



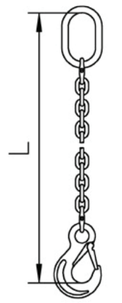
Sample of tag for ready made chain sling

Certificate

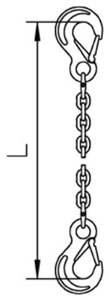
A test certificate is issued for all our products

which certifies all the specified charcteristics.

Sling examples



I A-HS V



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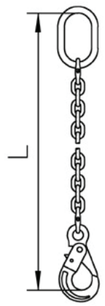
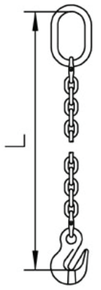


I A-HSB V



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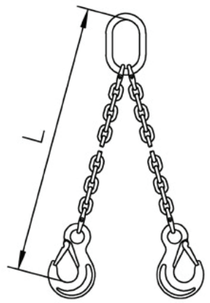
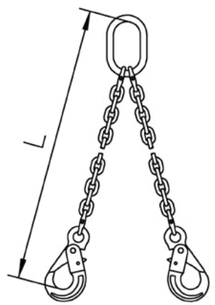


II A-HS V



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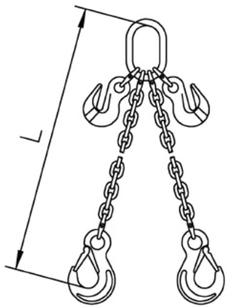

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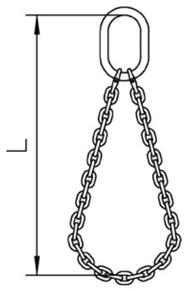
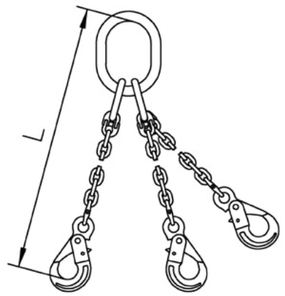
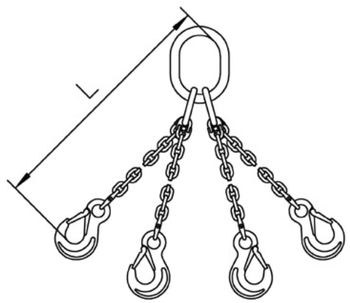


I A-S V



III G-HSB V



IV G-HS V

Example of Order Text:

Super Alloy chain SA 10mm, 2 legs with masterlink A and eye sling hook with forged safety latch HS, length 3,000mm assembled with connecting link V.

SA	10	II	A - HS	3000	V
Chain	Nominal Diameter	Number of Legs	Master Link / Hook	Length	Connecting Link

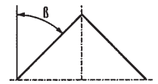
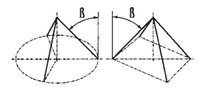
KWB Safety in action Super Alloy Chain

Super Alloy Chain SA acc, EN 818-2 – Measurements, Load Values, Weights

Chain D	P	Li/min.	Le/max.	Weight	WLL	Breaking Load
mm	mm	mm	mm	kg/m	kg	kN
6	18	7.8	22.2	0.8	1,120	45.2
7	21	9.1	25.9	1.1	1,500	61.6
8	24	10.4	29.6	1.4	2,000	80.4
10	30	13	37	2.2	3,150	126
13	39	16.9	48.1	3.8	5,300	212
16	48	20.8	59.2	5.7	8,000	322
18	54	23.4	66.6	7.3	10,000	407
20	60	26	74	9	12,500	503
22	66	28.6	81.4	10.9	15,000	608
26	78	33.8	96.2	15.2	21,200	849
32	96	41.6	118	23	31,500	1,290

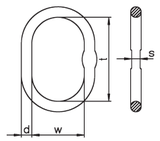
Safety factor 4:1

Maximum Working Load Limit for Super Alloy Chains

Chain Ø	1-leg Chains	2-leg Chains		3- & 4-leg Chains	
					
Angle of Inclination		0<ß<45°	0<ß<60°	0<ß<45°	0<ß<60°
Load Factor	1	1.4	1	2.1	1.5
Ø	Load Capacity [kg]				
6	1,120	1,600	1,120	2,360	1,700
7	1,500	2,120	1,500	3,150	2,240
8	2,000	2,800	2,000	4,250	3,000
10	3,150	4,250	3,150	6,700	4,750
13	5,300	7,500	5,300	11,200	8,000
16	8,000	11,200	8,000	17,000	11,800
18	10,000	14,000	10,000	21,200	15,000
20	12,500	17,000	12,500	26,500	19,000
22	15,000	21,200	15,000	31,500	22,400
26	21,200	30,000	21,200	45,000	31,500
32	31,500	45,000	31,500	67,000	47,500

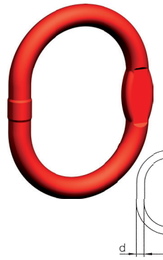
If the chains are used in more demanding conditions (e.g. high temperature, asymmetric load distribution edge loads, impacts) the maximum load capacities in the table must be reduced, Please use the load factors and refer to the specification in the user information,

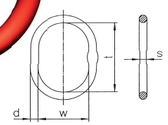
KWB Safety in action Master Link A



Chain Ø ⊥	Chain Ø ⋀	Code	Commercial Code	Measurements d	t	w	s	Weight	WLL 0°-45° *
mm	mm			mm				kg	kg
6+7	6	A 06/76.8	A 13	13	110	60	10	0.34	2,300
8	7	A 87.8	A 16	16.5	110	60	14	0.58	3,500
10	8	A 108.8	A 18	19	135	75	14	0.92	5,000
13	10	A 1310.8	A 22	23	160	90	17	1.60	7,600
16	13	A 1613.8	A 26	27	180	100	20	2.46	9,600
18	16	A 1816.8	A 32	33	200	110	26	4.04	13,600
20	18	A 2018.8	A 36	36	260	140	-	6.22	25,100
22	20	A 2220.8	A 36	36	260	140	-	6.22	25,100
26	22	A 2622.8	A/T 45	45	340	180	-	12.82	30,800
32	26	A 3226.8	A/T 50	50	350	190	-	16.60	40,000
36	32	A 3632.8	A/T 56	56	400	200	-	23.30	60,000
40	36	A 4036.8	A/T 56	56	400	200	-	23.30	60,000

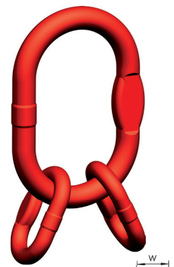
KWB Safety in action Special Master Link T

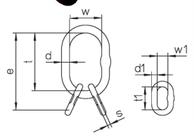




Chain Ø ⊥	Chain Ø ⋀	Code	Commercial Code	Measurements d	t	w	s	Weight	WLL 0°-45° *
mm	mm			mm				kg	kg
6+7+8	6+7	T 87.8	T 13	14	120	70	10	0.44	2,300
10	8	T 108.8	T 16	16.5	140	80	14	0.67	3,200
13	10	T 1310.8	T 20	20	160	95	14	1.21	5,400
16	13	T 1613.8	T 26	27	190	110	20	2.65	10,100
18+20	16	T 2016.8	T 32	33	230	130	26	4.78	15,700
22	18+20	T 2220.8	T 38	38	275	150	29	7.48	20,500

KWB Safety in action Sub-Assembly G

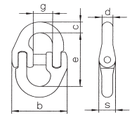




Chain Ø ⋀⋀	Code	Commercial Code	Measurements d	t	w	d1	t1	w1	s	e	Weight	WLL 0°-45°
mm			mm								kg	kg
6+7	G 06/7.8	G 06/7.8	19	135	75	13	60	38	10	195	1.32	4,200
8	G 08.8	G 08.8	23	160	90	16.5	70	34	14	230	2.32	7,600
10	G 10.8	G 10.8	27	180	100	19.5	85	40	14	265	3.52	9,600
13	G 13.8	G 13.8	33	200	110	23	115	50	17	315	6.26	13,780
16	G 16.8	G 16.8	36	260	140	27	140	65	20	400	9.86	20,800
18	G 18.8	G 18.8	45	340	180	33	150	70	490	18.92	30,700	13,600
20	G 20.8	G 20.8	50	350	190	33	150	70	500	22.65	34,100	25,100
22	G 22.8	G 22.8	50	350	190	36	170	75	520	25.19	40,000	25,100
26	G 26.8	G 26.8	56	400	200	40	170	80	570	38.01	54,000	30,800
32	G 32.8	G 32.8	70	460	250	50	200	100	660	66.6	76,000	40,000

*Please refer to table "Maximum Working Load Limit" on page 9 when using in chain slings.

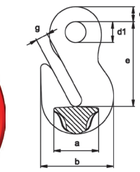
KWB Safety in action Connecting Link V



Chain	Code	Measurements g	s	b	e	c	d	Weight	WLL 0°-45° *
mm		mm						kg	kg
6	V 06.8 U	14.1	11	39	44.4	7.8	7.6	0.06	1,120
7	V 07.8 U	17	13	47	51	10	9	0.12	1,500
8	V 08.8 U	18.35	14	55	61.5	11.5	10	0.18	2,000
10	V 10.8 U	23	18	64	72	12.6	12.6	0.33	3,150
13	V 13.8 U	27.6	22	79	88	19	16.7	0.7	5,300
16	V 16.8 U	33	29	106	103	21	21	1.14	8,000
20	V 20.8 U	41.7	35	123	115	29.5	23.5	2.1	12,500
22	V 22.8	48	39	150	133	27	27	2.2	15,000
26	V 26.8 U	61	46	159	164	32	30	5.1	21,200
32	V 32.8 U	80	50	195	194	40	32	8.5	31,500

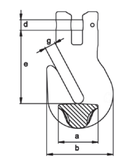
*Please refer to table "Maximum Working Load Limit" on page 9 when using in chain slings.

KWB Safety in action Eye Grab Hook P



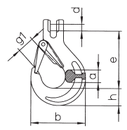
Chain	Code	Measurements g	d2	d1	e	a	b	Weight	WLL
mm		mm						kg	kg
6	P 06.8 *	7	9	12	50	26	41	0.14	1,120
7+8	P 07/8.8 *	9	12	16	65	34	55	0.34	2,000
10	P 10.8 *	12	14	20	77	46	69	0.65	3,150
13	P 13.8 *	15	19	26	101	60	89	1.44	5,300
16	P 16.8 *	19	23	32	121	70	110	2.60	8,000
18+20	P 20.8	25	27	36	151	84	150	6.15	12,500
22	P 22.8	27	31	42	170	91	165	8.30	15,000
26	P 26.8	32	37	50	201	107	195	13.80	21,200
32	P 32.8	39	44	60	245	139	231	21.80	31,500
32	V 32.8 U	80	50	195	194	40	32	8.5	31,500

KWB Safety in action Clevis Grab Hook PK



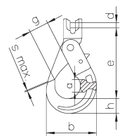
Chain	Code	Measurements g	d	e	a	b	Weight	WLL
mm		mm					kg	kg
7+8	PK 07/8.8 *	9	9	63	34	55	0.40	2,000
10	PK 10.8 *	12	12.5	78	46	69	0.79	3,150
13	PK 13.8 *	15	16	93	60	89	1.61	5,300
16	PK 16.8 *	19	20	115	70	110	3.10	8,000
20	PK 20.8	25	24	141	84	150	6.15	12,500

KWB Safety in action Clevis Sling Hook with Forged Safety Latch HKS



Chain	Code	Measurements						Weight	WLL
		e	h	a	d	g1	b		
mm		mm						kg	kg
6	HKS 06.8 U	19	15	20	7.4	69	66	0.2	1,120
7+8	HKS 07/8.8 U	26	19	28	9	95	90	0.6	2,000
10	HKS 10.8 U	31	25	35	12.5	109	108	1.1	3,150
13	HKS 13.8 U	39	34	41	16	136	131	2	5,300
16	HKS 16.8 U	45	37	49	20	155	153	3.5	8,000
20	HKS 20.8 U	53	51	53	24	184	177	5	12,500
22	HKS 22.8 U	62	52	62	27	214	196	9.0	15,000

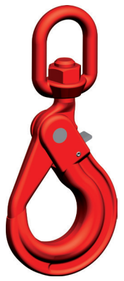
KWB Safety in action Clevis Self Locking Hook HKSB

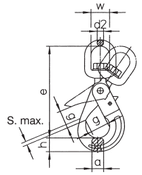


Standard type can not be swivelled when loaded. Not for welded system!

Chain	Code	Measurements						s max.	Weight	WLL
		g	d	e	a	b	h			
mm		mm						mm	kg	kg
6	HKSB 06.8 U	28	7.4	94	17	71	20	1	0.5	1,120
7+8	HKSB 07/8.8 U	34	9	123	20	88	26	1	0.9	2,000
10	HKSB 10.8 U	45	12.5	144	29	107	30	1	1.6	3,150
13	HKSB 13.8 U	52	16	180	35	138	40	1.5	2.9	5,300
16	HKSB 16.8 U	60	20	218	41	168	50	2	5.8	8,000

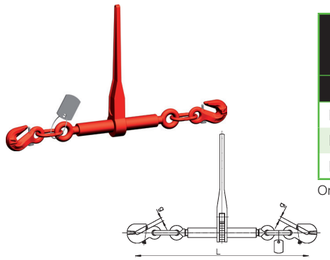
KWB Safety in action Swivel Self Locking Hook WSB





Chain	Code	Measurements						s max.	Weight	WLL
		e	h	d2	w	a	g			
mm		mm						mm	kg	kg
6	WSB 06.8	161	20	12	35	16	28	1	0.6	1,120
7+8	WSB 07/8.8	182	26	12	35	20	34	1	1.1	2,000
10	WSB 10.8	218	30	16	42	25	45	1	2.0	3,150
13	WSB 13.8	269	40	20	49	35	52	1.5	4.0	5,300
16	WSB 16.8	319	50	24	60	35	60	2	6.8	8,000

KWB Safety in action Ratchet Load Binder with Grab Hooks RLSP



Code	Max. Permissible LC	Normal Tension Force STF	Length Closed L	Length Open L	Tension Range	Width Opening g	Weight
	kN	daN	mm				kg
RLSP 08	40	1,900	586	731	145	12	4.6
RLSP 10	63	1,900	626	771	145	15	5.4
RLSP 13	100	3,000	708	853	145	19.5	8

Only for lashing. Not for lifting purposes!

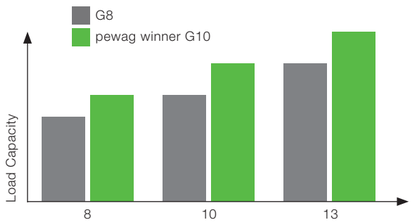
Grade 100 Chains and Components

Lifting chains in G10 quality

benefits that outweigh the rest.

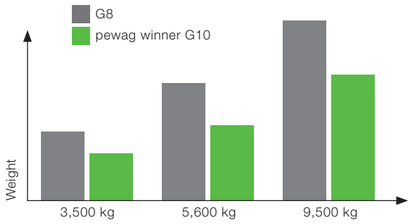
pewag is among the world's best manufacturers of lifting chains – for a good reason, as our products are the result of a responsible development process that focuses on user-friendliness and safety. These features are clearly measurable and form the basis of the pewag product development and manufacturing process, where only the best results count!

- 25% more load capacity compared to G8.



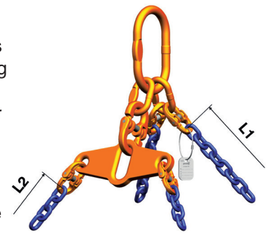
Load capacity	Previous chain Ø	pewag winner chain Ø
3,550	10	8
5,600	13	10
9,500	16	13

- Simplified handling thanks to a 30% weight reduction.



Load capacity	Previous chain Ø	pewag winner chain Ø	% weight reduction
3,550	16.20 kg	11 kg	32%
5,600	27.60 kg	17.60 kg	36%
9,500	42.20 kg	29.60 kg	30%

- Attractive price/performance ratio thanks to the small price differential compared to grade 8.
- One dimension smaller than grade 8 slings, for many load ranges – thus providing excellent value.
- Extended service life due to higher wear resistance.
- WIN 400 Easy identification – each link is marked with "W".
- WIN 200 Easy identification – each link is marked with "10".
- Code on chain and component ensures traceability of all manufacturing data.
- Distinctive oval-shaped tags with precise information helps avoid confusion with grade 8.
- High-visibility orange powder-coating for simple visual identification.
- Largest range of components in special grade 10 quality – for 11 chain dimensions.
- Fastest and simplest assembly of slings thanks to VXKW set with unique shortening element.
- Additional safety feature compared to shortening claws, thus reducing risks resulting from improperly attached chains of our shortening hooks



- Easier and faster annual inspection as fewer components are used.
- Compatible with our grade 8 range – used slings are easy to repair. NOTE: Grade 10 components may be used to repair G8, but not at an increased load capacity!
- First company to offer parallel hooks with 100% load capacity – shortening of the sling chain does not require a reduction in load caused by shear effect of the hook!
- 3 assembly systems of slings: welded, Connex and Clevis system.
- Pioneer: pewag were the first to sell G10 lifting chains and have a wealth of experience in this field.
- Quality-approved European production by an ISO 9001 certified company.
- Worldwide distribution network – smooth supply of spare and replacement parts.
- All components comply with EN 1677-1, -2, -3 or -4.
- A true-as-steel bonus: The pewag winner 400 chain meets the EN 818-2 with higher working load limit resp. PAS 1061 up to 16 mm and Machinery Directive 2006/42/EG.

True-as-steel quality management principles best explain why pewag is now offering even more benefits for lifting chains. For instance, ISO 14001 certification is being rigorously implemented for the G10 lifting chains, resulting in significantly lowered energy and material consumption during manufacturing, thus preserving raw materials – an environmentally friendly approach throughout! And the reduced amount of materials used also means that less material has to be recycled.

Core data of the pewag winner range – winner by name, winner by nature.

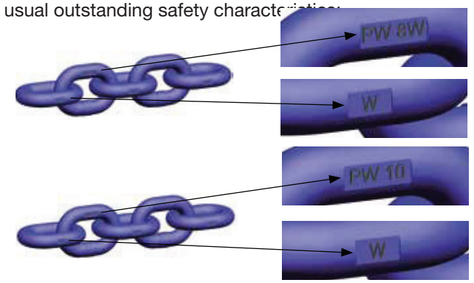
- **Top ranking:**
  pewag winner 200 – meets the requirements of ASTM A973/A973M-01 and of EN 818-2 but with higher load capacity (however admissible operating temperature of 200°C max.) and 2006/42/EG Machinery Directive.**Chain quality of pewag winner 400** meets the EN 818-2 with higher working load limit resp. PAS 1061 up to 16 mm and Machinery Directive 2006/42/EC.
- **Stress at load capacity limit:** 250 N/mm2.
- **Test stress:** 625 N/mm² – equals 2.5 times the load capacity.
- **Breaking stress:** 1,000 N/mm² – equals 4 times load capacity.
- **Breaking elongation:** min. 20%.
- **Bending according to EN 818-2 or PAS 1061:**
  0.8 x nominal diameter.
- **Admissible operating temperature:**
  pewag winner 200: 200°C max.
  pewag winner 400: up to 380°C.
- **Quality grade stamps**
  pewag winner 200: 10 at a spacing of approx. 300 mm till 16 mm chain (other 0.9 m) and 10 additionally on the back of each link.
  pewag winner 400: 10 at a spacing of approx. 300 mm up to 16 mm chain (other 900 mm) and W on the back of each link.
  Components: 10.
- **Manufacturer's name or symbol on the chain and components:** PW or pewag.
- **Surface:**
  pewag winner 200: shot-blasted and clear coated
  pewag winner 400: blue painted
  Components: orange powder-coated
  Welded system: blue painted
- **Compatibility:**
  pewag winner chains and components may be combined by a competent person under consideration of the manufacturer specifications with all grade 8 components that meet the requirements of EN 818 and EN 1677. Furthermore, the pewag winner chains may be combined with all competitor chains and components that are compatible with EN 818. and EN 1677 qualified items. Please note that the products cannot be combined with items that do not comply with EN 818 or EN 1677! The maximum working load capacity of the overall system is always defined by its weakest part.

  Only original pewag spare parts (e.g. pins and bolts, safety catches, etc.) may be used for pewag products, subject to inspection and approval by the competent person.
- **Product characteristics** for stress crack corrosion are equal to those of grade 8.

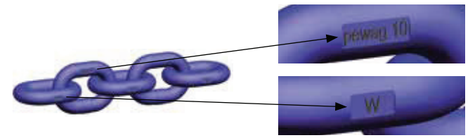
All dimensions given in this catalog are nominal dimensions. Depending on the manufacturing process they are subject to various manufacturing tolerances. Please contact our customer service if required.

pewag winner chain markings, old and new.

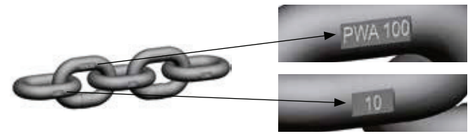
pewag winner 400 chain with old chain markings and the usual outstanding safety characteristics:



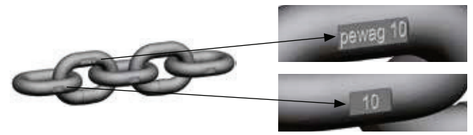
pewag winner 400 chain with old chain markings and the usual outstanding safety characteristics:



WIN 200 chain with old chainmarking:



WIN 200 chain with new chainmarking:



Exceptional conditions of use

Even the highest-quality products will lose some of their load capacity if used at high temperatures, as a consequence of asymmetric load distribution, edge loading, shock/impact loading or other exceptional conditions of use. Please consult the user information for details.

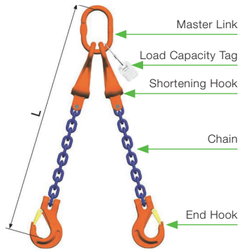
The following circumstances are considered exceptional conditions of use as outlined above:

Temperature	-40°C - 200°C	above 200°C - 300°C	above 300°C - 380°C
Load factor pewag winner 200	1	not permissible	not permissible
Load factor pewag winner 400	1	0.9	0.75
Asymmetric load distribution	The WLL has to be reduced by at least I leg. In case of doubt only consider I leg as load-bearing.		
Edge load*	R = larger than 2 x d* 	R = larger than d* 	R = smaller than d* 
Load factor	1	0.7	0.5
Shock	slight shocks	medium shocks	strong shocks
Load factor	1	0.7	not permissible

* d = dia. of chain

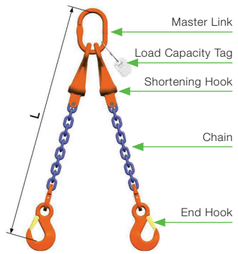
Sample order text for pewag winner sling types

Here you will find some examples that show what an order of a fully assembled and commercially available pewag winner G10 chain system could look like, clearly labelled and with all components and measurements. What you see here is a pewag winner 400 II-leg chain sling, 13mm, with shortening device and hook.
Length: 3,000mm.



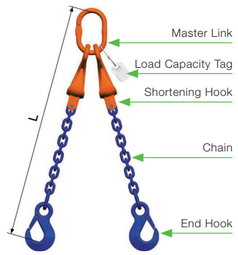
Clevis system:

WIN 13	400	II	VXKW	-	KSHW	3000
Nominal Diameter	Short Designation	Number of Legs	Master Link		End Hook	Length [mm]



Connex system:

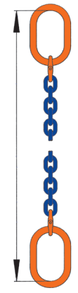
WIN 13	400	II	VXKW	-	KSHW	3000 Connex
Nominal Diameter	Short Designation	Number of Legs	Master Link		End Hook	Length [mm]



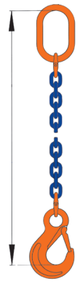
Welded system:

WIN 13	400	II	VXKW	-	KSHW	3000
Nominal Diameter	Short Designation	Number of Legs	Master Link		End Hook	Length [mm]

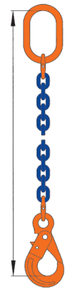
pewag winner standard sling types



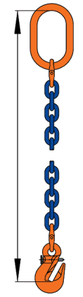
I AW-AW Connex



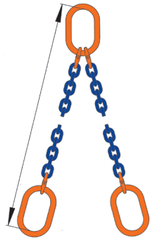
I AW-HSW Connex



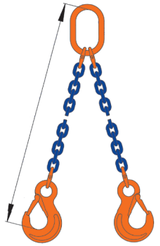
I AW-LHW Connex



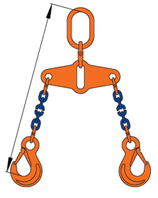
I AW-PSW Connex



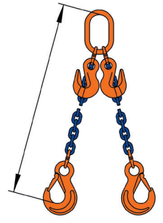
II AW-AW Connex



II AW-HSW Connex



II AW-HSW-AGWW Connex



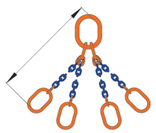
II AW-HSW-PW_ Connex 2017

III VW-AW Connex

III VW-HSW Connex

III VW-LHW Connex

III VW-PSW Connex



IV VW-AW Connex

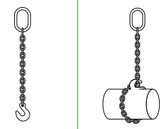
IV VW-HSW Connex

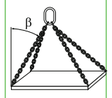
IV VW-HSW-AGWW Connex

IV VXKW-KLHW

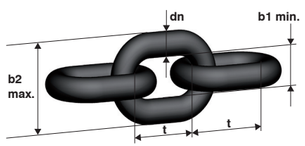
pewag winner load capacities.

The load capacities listed are maximum values of the various sling types, stated according to the standard (Uniform Load) method of rating.

Safety factor 4		I-leg chains		II-leg chains				III- + IVleg chains
								
Angle of inclination β		-	-	0° – 45°	45° – 60°	0° – 45°	45° – 60°	0° – 45°
Load factor		1	0.8	1.4	1	1.12	0.8	2.1
Code	D	Load capacity (kg)						
WIN 5	**5**	**1,000**	**800**	**1,400**	**1,000**	**1,120**	**800**	**2,000**
Ni 5 G8	5	800	640	1,120	800	900	640	1,600
WIN 6	**6**	**1,400**	**1,120**	**2,000**	**1,400**	**1,600**	**1,120**	**3,000**
Ni 6 G8	6	1,120	900	1,600	1,120	1,250	900	2,360
WIN 7	**7**	**1,900**	**1,500**	**2,650**	**1,900**	**2,120**	**1,500**	**4,000**
Ni 7 G8	7	1,500	1,200	2,120	1,500	1,700	1,200	3,150
WIN 8	**8**	**2,500**	**2,000**	**3,550**	**2,500**	**2,800**	**2,000**	**5,300**
Ni 8 G8	8	2,000	1,600	2,800	2,000	2,240	1,600	4,250
WIN 10	**10**	**4,000**	**3,150**	**5,600**	**4,000**	**4,250**	**3,150**	**8,000**
Ni 10 G8	10	3,150	2,500	4,250	3,150	3,550	2,500	6,700
WIN 13	**13**	**6,700**	**5,300**	**9,500**	**6,700**	**7,500**	**5,300**	**14,000**
Ni 13 G8	13	5,300	4,250	7,500	5,300	5,900	4,250	11,200
WIN 16	**16**	**10,000**	**8,000**	**14,000**	**10,000**	**11,200**	**8,000**	**21,200**
Ni 16 G8	16	8,000	6,300	11,200	8,000	9,000	6,300	17,000
WIN 19	**19**	**14,000**	**11,200**	**20,000**	**14,000**	**16,000**	**11,200**	**30,000**
Ni 19 G8	19	11,200	8,950	16,000	11,200	12,500	8,950	23,600
WIN 22	**22**	**19,000**	**15,000**	**26,500**	**19,000**	**21,200**	**15,000**	**40,000**
Ni 22 G8	22	15,000	12,000	21,200	15,000	17,000	12,000	31,500
WIN 26	**26**	**26,500**	**21,200**	**37,500**	**26,500**	**30,000**	**21,200**	**56,000**
Ni 26 G8	26	21,200	16,950	30,000	21,200	23,700	16,950	45,000
WIN 32	**32**	**40,000**	**31,500**	**56,000**	**40,000**	**45,000**	**31,500**	**85,000**
Ni 32 G8	32	31,500	25,200	45,000	31,500	35,200	25,200	67,000

Safety factor 4		III- + IVleg chains	IV- leg chains with load distributor		Endless chain sling	Single lifting sling		Double lifting sling	
									
Angle of inclination β		45° – 60°	0° – 45°	45° – 60°	-	0° – 45°	45° – 60°	0° – 45°	45° – 60°
Load factor		1.5	2.8	2	1.6	1.4	1	2.1	1.5
Code	D	Load capacity (kg)							
WIN 5	**5**	**1,500**	**2,800**	**2,000**	**1,600**	**1,400**	**1,000**	**2,000**	**1,500**
Ni 5 G8	5	1,180	2,240	1,600	1,250	1,120	800	1,600	1,180
WIN 6	**6**	**2,120**	**4,000**	**2,800**	**2,240**	**2,000**	**1,400**	**3,000**	**2,120**
Ni 6 G8	6	1,700	3,150	2,240	1,800	1,600	1,120	2,360	1,700
WIN 7	**7**	**2,800**	**5,300**	**3,750**	**3,000**	**2,650**	**1,900**	**4,000**	**2,800**
Ni 7 G8	7	2,240	4,000	3,000	2,500	2,120	1,500	3,150	2,240
WIN 8	**8**	**3,750**	**7,100**	**5,000**	**4,000**	**3,550**	**2,500**	**5,300**	**3,750**
Ni 8 G8	8	3,000	5,600	4,000	3,150	2,800	2,000	4,250	3,000
WIN 10	**10**	**6,000**	**11,200**	**8,000**	**6,300**	**5,600**	**4,000**	**8,000**	**6,000**
Ni 10 G8	10	4,750	8,500	6,300	5,000	4,250	3,150	6,700	4,750
WIN 13	**13**	**10,000**	**19,000**	**13,200**	**10,600**	**9,500**	**6,700**	**14,000**	**10,000**
Ni 13 G8	13	8,000	14,000	10,600	8,500	7,500	5,300	11,200	8,000
WIN 16	**16**	**15,000**	**28,000**	**20,000**	**16,000**	**14,000**	**10,000**	**21,200**	**15,000**
Ni 16 G8	16	11,800	22,400	16,000	12,500	11,200	8,000	17,000	11,800
WIN 19	**19**	**21,200**	**39.200**	**28.000**	**22,400**	**20,000**	**14,000**	**30,000**	**21,200**
Ni 19 G8	19	17,000	-	-	18,000	16,000	11,200	23,600	17,000
WIN 22	**22**	**28,000**	**53.200**	**38.000**	**30,000**	**26,500**	**19,000**	**40,000**	**28,000**
Ni 22 G8	22	22,400	-	-	23,600	21,200	15,000	31,500	22,400
WIN 26	**26**	**40,000**	**74.200**	**53.000**	**42,500**	**37,500**	**26,500**	**56,000**	**40,000**
Ni 26 G8	26	31,500	-	-	33,500	30,000	21,200	45,000	31,500
WIN 32	**32**	**60,000**	**-**	**-**	**63,000**	**56,000**	**40,000**	**85,000**	**60,000**
Ni 32 G8	32	47,500	-	-	50,000	45,000	31,500	67,000	47,500

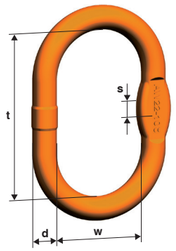
pewag winner 200 Round Steel Chains



Code	DIA [mm]	t [mm]	b1min [mm]	b2 max [mm]	WLL [kg]	Breaking force [kN]	Weight [kg/m]
WIN 5 200	5	16	7,50	18,50	1,000	39.30	0.61
WIN 6 200	6	18	8,70	21,60	1,400	56.50	0.96
WIN 7 200	7	21	9,50	25,20	1,900	77	1.20
WIN 8 200	8	24	10,90	28,80	2,500	101	1.57
WIN 10 200	10	30	13,50	37	4,000	157	2.46
WIN 13 200	13	39	17,50	46,80	6,700	265	4.18
WIN 16 200	16	48	21,50	57,60	10,000	402	6.28
WIN 19 200	19	57	26,60	69,40	14,000	567	8.92
WIN 22 200	22	66	29,50	79,20	19,000	760	11.88
WIN 26 200	26	78	35	94	26,500	1,060	16.18
WIN 32 200	32	96	43,20	115	40,000	1,610	24.10

The chain is lack varnished, optionally also available with the tried-and-tested corropro coating PCP for maximum corrosion resistance.

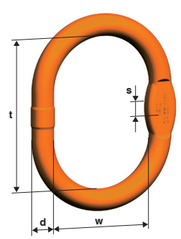
pewag AW Master Link



Code	WLL 0°-45° [kg]	For 1-leg slings	For 2-leg slings	d [mm]	t [mm]	w [mm]	s [mm]	Weight [kg/pc.]
AW 10	1,400	5	5	10	80	50	10	0,14
AW 13	2,300	6+7	6	13	110	60	10	0,34
AW 16	3,500	8	7	16	110	60	14	0,53
AW 18	5,000	10	8	19	135	75	14	0,92
AW 22	7,600	13	10	23	160	90	17	1,60
AW 26	10,000	16	13	27	180	100	20	2,46
AW 32	14,000	19	16	33	200	110	26	4,14
AW 36	25,100	22	19	36	260	140	29	6,22
AW 45	30,800	26	22	45	340	180	-	12,82
AW 50	40,000	32	26	50	350	190	43	16,55
AW 56	64,000	-	32	56	400	200	-	27,01
AW 72	85,000	-	-	70	460	250	-	45,30

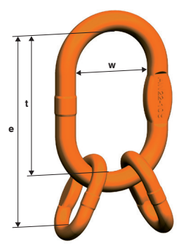
For chain sling load capacities, please refer to the table "pewag winner load capacities".

pewag MW Enlarged Master Link



Code	WLL 0°-45° [kg]	For 1-leg slings	For 2-leg slings	d [mm]	t [mm]	w [mm]	s [mm]	Weight [kg/pc.]
MW 10	1,400	5	5	11	90	65	10	0.22
MW 13	2,300	6+7	6	14	120	70	10	0.44
MW 16	3,200	8	7	16	140	80	13	0.71
MW 18	4,200	10	8	19	160	95	14	1.09
MW 22	6,700	13	10	23	170	105	17	1.74
MW 26	10,100	16	13	27	190	110	20	2.65
MW 32	16,000	19	16	33	230	130	26	4.78
MW 36	21,200	22	19	38	275	150	29	7.48
MW 56	40,000	32	26	56	350	250	46	21.98

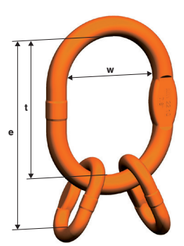
pewag VW IV-leg Master Link Assembly



Code	Consisting of	WLL 0°-45° [kg]	e [mm]	t [mm]	w [mm]	Weight [kg/pc.]
VW 5	AW 13 + 2 BW 10	2,300	154	110	60	0.52
VW 6	AW 18 + 2 BW 13	4,200	189	135	75	1.30
VW 7/8	AW 22 + 2 BW 16	7,600	230	160	90	2.32
VW 10	AW 26 + 2 BW 20	9,600	265	180	100	3.82
VW 13	AW 32 + 2 BW 22	14,000	315	200	110	6.46
VW 16	AW 36 + 2 BW 26	21,200	400	260	140	10.06
VW 19/20	AW 50 + 2 BW 32	34,100	500	350	190	22.62
VW 22	AW 50 + 2 BW 36	40,000	520	350	190	24.54
VW 26	AW 56 + 2 BW 45	56,000	570	400	200	37.60
VW 32	AW 72 + 2 BW 50	85,000	660	460	250	66.60

Please note that the allocation does not apply to suspension systems with a load distributor.

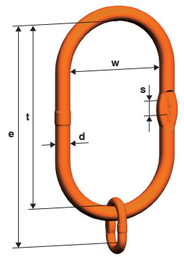
pewag VMW Enlarged IV-leg Master Link Assembly



Code	Consisting of	WLL 0°-45° [kg]	e [mm]	t [mm]	w [mm]	Weight [kg/pc.]
VMW 6	MW 18 + 2 BW 13	4,200	214	160	95	1.43
VMW 7/8	MW 22 + 2 BW 16	6,600	240	170	105	2.46
VMW 10	MW 26 + 2 BW 20	10,100	275	190	110	4.01
VMW 13	MW 32 + 2 BW 22	15,700	345	230	130	7.10
VMW 16	MW 36 + 2 BW 26	21,200	415	275	150	11.30
VMW 19/20	MW 56 + 2 BW 32	34,100	500	350	250	28.30
VMW 22	MW 56 + 2 BW 36	40,000	520	350	250	30.22

Please note that the allocation does not apply to suspension systems with a load distributor.

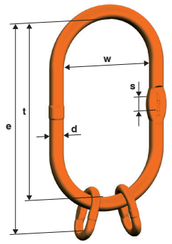
pewag VLW 1 Master Link Assembly



Code	Consisting of	WLL [kg]	e [mm]	d [mm]	t [mm]	w [mm]	s [mm]	Weight [kg/pc.]
VLW 1-6/7/8	LW 22 + BW 13	2,500	394	23	340	180	17	3.37
VLW 1-10	LW 27 + BW 16	4,000	410	27	340	180	20	4.76
VLW 1-13	LW 27	6,700	340	27	340	180	20	4.40
VLW 1-16	LW 32	10,000	340	33	340	180	27	6.70
VLW 1-19/22	LW 40	19,000	340	40	340	180	29	10.00

Example:
VLW 1-6/7/8 can be used for I-leg slings with 6 mm, 7 mm and 8 mm chains.

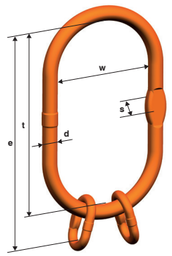
pewag VLW 2/4 Master Link Assembly



Code	Consisting of	WLL 0°-45° [kg]	For 2-leg slings	For 3- and 4-leg slings	e [mm]	d [mm]	t [mm]	w [mm]	s [mm]	Weight [kg/pc.]
VLW 2-6/7/8/4-6	LW 22 + 2 BW 13	3,550	6/7/8	6	394	23	340	180	17	3.54
VLW 2-10/4-7/8	LW 27 + 2 BW 16	5,600	10	7/8	410	27	340	180	20	5.12
VLW 2-13/4-10	LW 32 + 2 BW 20	9,500	13	10	425	33	340	180	27	7.81
VLW 2-16/4-13	LW 40 + 2 BW 22	14,000	16	13	455	40	340	180	29	12.32
VLW 2-19/4-16	LW 40 + 2 BW 26	21,200	19	16	480	40	340	180	29	13.84

Example of multi-leg chain sling:
VLW 2-10/4-7/8 can be used for 10 mm II-leg slings and for 7+8 mm IV-leg slings.

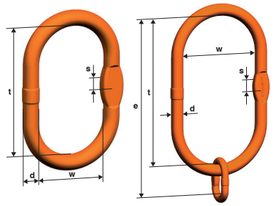
pewag VSW 2/4 Oversize Master Link Assembly



Code	Consisting of	WLL 0°-45° [kg]	For 2-leg slings	For 3- and 4-leg slings	e [mm]	d [mm]	t [mm]	w [mm]	s [mm]	Weight [kg/pc.]
VSW 2-10/4-8	SW 30 + 2 BW 20	5,600	10	8	515	30	430	220	24	8.16
VSW 2-13 / 4-10	SW 33 + 2 BW 20	9,500	13	10	515	33	430	220	26	9.66
VSW 2-16 / 4-13	SW 36 + 2 BW 22	14,000	16	13	545	36	430	220	29	12.32
VSW 2-19/20 / 4-16	SW 45 + 2 BW 26	21,200	19/20	16	570	45	430	220	-	19.54

Example of multi-leg chain sling: VSW 2-10/4-8 can be used for 10 mm II-leg slings and for 8 mm IV-leg slings.

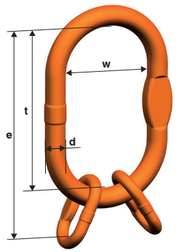
pewag VSAW 1 Master Link Assembly



Code	Consisting of	WLL [kg]	e [mm]	d [mm]	t [mm]	w [mm]	s [mm]	Weight [kg/pc.]
VSAW 1-10/13	SAW 32+BW 20	10,000	585	33	500	250	26	10.00
VSAW 1-16	SAW 32	10,000	500	33	500	250	26	9.32
VSAW 1-19	SAW 40	16,000	460	40	460	250	32	13.12
VSAW 1-22	SAW 45	22,400	500	45	500	250	-	17.80
VSAW 1-26	SAW 50	33,600	460	50	460	250	43	20.98
VSAW 1-32	SAW 56	40,000	460	56	460	250	-	26.68
VSAW 1-32/320	SAW 60	40,000	800	60	800	320	54	48.00

Example: VSAW 1-10/13 may be used for I-leg chain slings with a 10mm or 13mm chain.

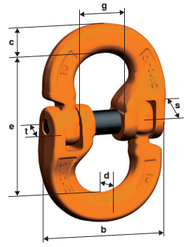
pewag VSAW 2 Master Link Assembly



Code	Consisting of	WLL 0°-45° [kg]	For 2-leg slings	For 3- and 4-leg slings	e [mm]	d [mm]	t [mm]	w [mm]	Weight [kg/pc.]
VSAW 2-10/13/4-10	SAW 32 + 2 BW 20	9,500	10/13	10	585	33	500	250	10.68
VSAW 2-16 / 4-13	SAW 40 + 2 BW 22	14,000	16	13	575	40	460	250	15.44
VSAW 2-19/20/4-16	SAW 45 + 2 BW 26	21,200	19/20	16	640	45	500	250	21.64
VSAW 2-22/4-19/20	SAW 50 + 2 BW 32	30,000	22	19/20	610	50	460	250	27.30
VSAW 2-26/4-22	SAW 56 + 2 BW 32	40,000	26	22	610	56	460	250	34.92
VSAW 2-26/4-22/320	SAW 60 + 2 BW 32	40,000	26	22	950	60	800	320	56.24

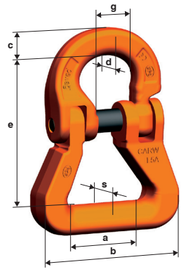
Example: VSAW 2-10/13 /4-10 may be used for II-leg chains with a 10mm or 13mm chain.

pewag CW Connex Connecting Link



Code	WLL [kg]	e [mm]	c [mm]	s [mm]	t [mm]	d [mm]	b [mm]	g [mm]	Weight [kg/pc.]
CW 5	1,000	38	7	9	12	7	34	13	0.06
CW 6	1,400	44	8	11	13	8	39	14	0.08
CW 7	1,900	53	10	13	16	9	46	17	0.14
CW 8	2,500	62	12	14	20	10	55	19	0.24
CW 10	4,000	72	15	18	22	13	64	24	0.42
CW 13	6,700	88	20	22	26	17	79	28	0.85
CW 16	10,000	112	24	29	35	20	105	34	1.90
CW 19/20	16,000	126	32	35	45	25	126	44	3.10
CW 22	19,000	157	36	39	46	26	148	52	4.60
CW 26	26,500	179	40	46	57	30	175	62	6.80
CW 32	40,000	206	47	56	63	35	216	80	11.36

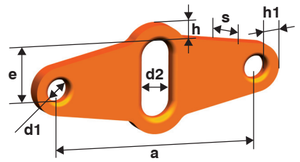
pewag CARW Round Sling Connecting Link



Code	WLL [kg]	e [mm]	a [mm]	c [mm]	d [mm]	b [mm]	s [mm]	g [mm]	Weight [kg/pc.]
CARW 8	2,500	66	29	12	10	68	18	19	0.33
CARW 10	4,000	81	40	15	13	82	21	24	0.71
CARW 13	6,700	104	44	20	17	101	28	28	1.34
CARW 16	10,000	113	47	24	20	110	40	34	1.83
CARW 22	19,000	190	110	36	25	215	58	52	7.98

Please note that the allocation does not apply to suspension systems with a load distributor.

pewag AGWW Load Distributor

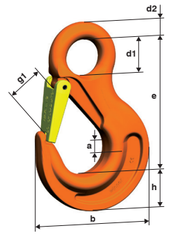


Code	Connecting link	WLL 0°- 45° [kg]	WLL 45°- 60° [kg]	Difference L1 / L2 [chain links]
AGWW 5/6	CW 8	2,000	1,400	6 5
AGWW 7/8	CW 10	3,550	2,500	6 5
AGWW 10	CW 13	5,600	4,000	4
AGWW 13	CW 16	9,500	6,700	4
AGWW 16	CW 19/20	14,000	10,000	4
AGWW 19/20	CW 32	20,000	14,000	5
AGWW 22	CW 32	26,500	19,000	5
AGWW 26	GSCHW VB G-4163 WLL 55 t	37,500	26,500	5

Code	e [mm]	a [mm]	d1 [mm]	d2 [mm]	h [mm]	h1 [mm]	s [mm]	Weight [kg/pc.]	Suspension heads to use
AGWW 5/6	35	148	16	22	11	9	10	0.54	VW 6 /VMW 6/VAW 6/7
AGWW 7/8	51	210	22	25	15.50	14	15	1.75	VW 7/8/VMW 10/VAW 10
AGWW 10	32	180	25	32	23	15.50	15	1.56	VW 13/VMW 13/VAW 13
AGWW 13	53	240	32	40	27	20	20	3.60	VW 16/VMW 16/VAW 16
AGWW 16	77	300	40	50	32	25	25	7.00	VW 19/20/VMW 19/20/VAW 19/20
AGWW 19/20	79	390	50	70	45	30	30	13.20	VW 22/VMW 22/VAW 19/20
AGWW 22	124	350	60	70	50	35	30	14.70	VW 26/VAW 26
AGWW 26	130	400	70	75	60	40	40	25.80	VAW 32

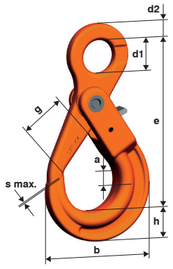
Please use the displayed item in column "Connecting link" to assemble the load distributor in the four-leg sling.
Static test coefficient = 2.5 x load capacity of the respective chain section; safety factor = 4

pewag HSW Eye Sling Hook



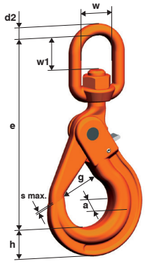
Code	WLL [kg]	e [mm]	h [mm]	a [mm]	d [mm]	g1 [mm]	b [mm]	Weight [kg/pc.]
KHSW 5/6	1,400	69	20	15	7.40	19	66	0.29
KHSW 7	1,900	95	28	19	9	26	90	0.61
KHSW 8	2,500	95	28	19	10	26	90	0.62
KHSW 10	4,000	109	35	25	12.50	31	108	1.19
KHSW 13	6,700	136	41	34	16	39	131	2.12
KHSW 16	10,000	155	49	37	20	45	153	3.49
KHSW 19/20	16,000	184	53	51	24	53	177	5.64
KHSW 22	19,000	214	62	52	27	62	196	9.05

pewag LHW Safety Hook



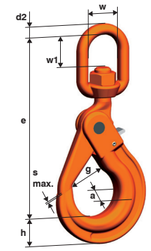
Code	WLL [kg]	e [mm]	h [mm]	a [mm]	b [mm]	d1 [mm]	d2 [mm]	g [mm]	s. max. [mm]	Weight [kg/pc.]
LHW 5/6	1,400	110	20	17	71	21	11	28	1	0.53
LHW 7/8	2,500	136	26	20	88	25	12	34	1	0.92
LHW 10	4,000	169	30	29	107	35	15	45	1	1.57
LHW 13	6,700	205	40	35	138	40	20	52	1.50	3.19
LHW 16	10,000	251	50	41	168	50	27	60	2	6.24
LHW 19/20	16,000	290	62	50	194	60	30	70	2	9.75
LHW 22	19,000	322	65	52	211	70	32	81	2	12.45
LHW 26	26,500	383	79	61	253	82	42	100	2	20.00

pewag WLHW Swivel Safety Hook



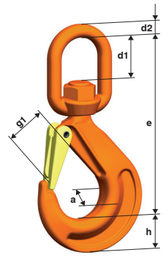
Code	WLL [kg]	e [mm]	h [mm]	a [mm]	w [mm]	w1 [mm]	d2 [mm]	g [mm]	s. max. [mm]	Weight [kg/pc.]
WLHW 5/6	1,400	161	20	17	35	36	12	28	1	1.20
WLHW 7/8	2,500	182	26	20	35	36	12	34	1	1.54
WLHW 10	4,000	218	30	29	42	41	16	45	1	2.14
WLHW 13	6,700	269	40	35	49	47	20	52	1.50	4.42
WLHW 16	10,000	319	50	41	60	60	24	60	2	7.34

pewag WLHBW Swivel Safety Hook



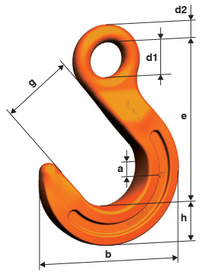
Code	WLL [kg]	e [mm]	h [mm]	a [mm]	w [mm]	w1 [mm]	d2 [mm]	g [mm]	s. max. [mm]	Weight [kg/pc.]
WLHBW 5/6	1,400	161	20	17	35	36	12	28	1	1.20
WLHBW 7/8	2,500	182	26	20	35	36	12	34	1	1.55
WLHBW 10	4,000	218	30	29	42	41	16	45	1	2.14
WLHBW 13	6,700	269	40	35	49	47	20	52	1.50	4.43
WLHBW 16	10,000	319	50	41	60	60	24	60	2	7.35

pewag WSBW Swivel Hook



Code	WLL [kg]	e [mm]	h [mm]	a [mm]	d1 [mm]	d2 [mm]	g1 [mm]	Weight [kg/pc.]
WSBW 7/8	2,500	154	28	19	37	12	26	1.24
WSBW 10	4,000	183	33	25	41	16	30	1.84
WSBW 13	6,700	221	40	30	47	20	38	3.45

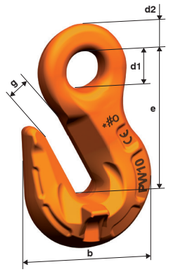
pewag FW Foundry Hook



Code	WLL [kg]	e [mm]	h [mm]	a [mm]	d1 [mm]	d2 [mm]	g [mm]	b [mm]	Weight [kg/pc.]
FW 7/8	2,500	131	29	25	24	11	64	118	0.94
FW 10	4,000	158	35	32	31	14	76	143	1.62
FW 13	6,700	190	42	40	39	17	89	170	3.24
FW 16	10,000	224	50	46	47	22	102	200	5.65
FW 19/20	16,000	260	61	54	56	28	114	231	9.50
FW 22	19,000	287	75	63	47	31	140	284	13.40
FW 26	26,500	358	84	73	82	38	152	312	21.40
FW 32	40,000	370	101	90	66	44	170	359	35.00
F 22 [1]	15,000	265	70	61	47	30	127	260	9.31
F 26 [2]	21,200	305	80	72	54	34	136	280	19.21
F 32 [1]	31,500	327	93	83	60	37	152	336	28.00

[1] Grade 80
[2] Not suitable for assembly with Unilock. (G8)

pewag PW Grab Hook

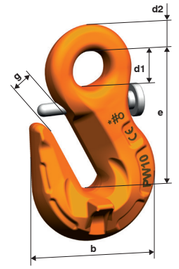


Code	WLL [kg]	e [mm]	b [mm]	d1 [mm]	d2 [mm]	g [mm]	Weight [kg/pc.]
PW 5	1,000	47	40	11	9	7	0.16
PW 6	1,400	50	44	12	9	7	0.16
PW 7/8	2,500	65	57	16	12	9	0.38
PW 10	4,000	77	77	20	14	12	0.72
PW 13	6,700	101	92	26	19	15	1.56
PW 16	10,000	121	113	32	23	19	2.67
PW 19/20 [1]	16,000	151	150	36	27	25	6.16
PW 22 [1]	19,000	170	165	42	31	27	8.30
PW 26 [1]	26,500	201	195	50	37	32	13.65
PW 32 [1]	40,000	243	242	60	43	38	25.00

[1] Shape without saddle

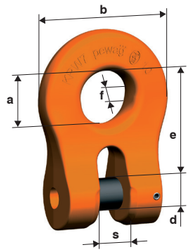
Exception:
Chain dimensions from 19/20 have not yet been adjusted. For technical reasons, chains with these dimensions must not touch the bearing surface of the hook.

pewag PSW Grab Hook with Safety Catch



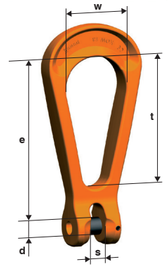
Code	WLL [kg]	e [mm]	b [mm]	d1 [mm]	d2 [mm]	g [mm]	Weight [kg/pc.]
PSW 7/8	2,500	65	57	16	12	9	0.40
PSW 10	4,000	77	71	20	14	12	0.75
PSW 13	6,700	101	92	26	19	15	1.61
PSW 16	10,000	121	113	32	23	19	2.73

pewag KRW Coupling Ring



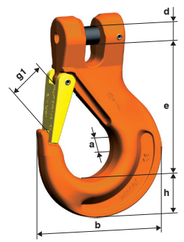
Code	WLL [kg]	e [mm]	s [mm]	a [mm]	b [mm]	f [mm]	d [mm]	Weight [kg/pc.]
KRW 5/6	1,400	31	7	18	38	8	7.40	0.12
KRW 7	1,900	43	10	24	54	11	9	0.21
KRW 8	2,500	43	10	24	54	11	10	0.21
KRW 10	4,000	51	12	28	63	14	12.50	0.37
KRW 13	6,700	63	15	33	76	17	16	0.77
KRW 16	10,000	74	18	40	88	20	20	1.36
KRW 19/20	16,000	94	23	50	114	24	24	2.33
KRW 22	19,000	102	25	50	122	27	27	3.95

pewag KOW Clevis Reeving Link



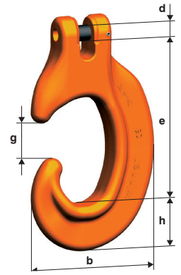
Code	WLL [kg]	e [mm]	t [mm]	w [mm]	d [mm]	s [mm]	Weight [kg/pc.]
KOW 7	1,900	92	70	34	9	9	0.33
KOW 8	2,500	91	70	34	10	9	0.33
KOW 10	4,000	128	102	50	12.50	12	0.75
KOW 13	6,700	169	136	66	16	15	1.08
KOW 16	10,000	214	172	83	20	18	2.93

pewag KHSW Clevis Sling Hook



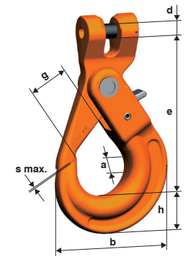
Code	WLL [kg]	e [mm]	h [mm]	a [mm]	d [mm]	g1 [mm]	b [mm]	Weight [kg/pc.]
KHSW 5/6	1,400	69	20	15	7.40	19	66	0.29
KHSW 7	1,900	95	28	19	9	26	90	0.61
KHSW 8	2,500	95	28	19	10	26	90	0.62
KHSW 10	4,000	109	35	25	12.50	31	108	1.19
KHSW 13	6,700	136	41	34	16	39	131	2.12
KHSW 16	10,000	155	49	37	20	45	153	3.49
KHSW 19/20	16,000	184	53	51	24	53	177	5.64
KHSW 22	19,000	214	62	52	27	62	196	9.05

pewag KCHW Clevis C-Hook



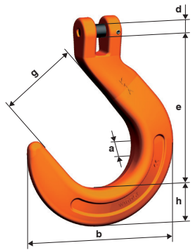
Code	WLL [kg]	e [mm]	h [mm]	d [mm]	b [mm]	g [mm]	Weight [kg/pc.]
KCHW 7	1,900	91	28	9	74	20	0.52
KCHW 8	2,500	90	28	10	74	20	0.51
KCHW 10	4,000	129	39	12.50	107	28	1.51
KCHW 13	6,700	166	51	16	137	41	3.13
KCHW 16	10,000	205	60	20	166	45	5.56

pewag KLHW Clevis Safety Hook



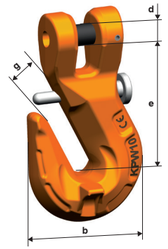
Code	WLL [kg]	e [mm]	h [mm]	a [mm]	b mm]	d [mm]	g mm]	s. max. [mm]	Weight [kg/pc.]
KLHW 5/6	1,400	94	20	17	71	7.40	28	1	0.56
KLHW 7	1,900	123	26	20	88	9	34	1	0.87
KLHW 8	2,500	123	26	20	88	10	34	1	1.00
KLHW 10	4,000	144	30	29	107	12.50	45	1	1.61
KLHW 13	6,700	180	40	35	138	16	52	1.50	3.25
KLHW 16	10,000	218	50	41	168	20	60	2	5.95
KLHW 19/20	16,000	259	62	50	194	24	70	2	12.89
KLHW 22	19,000	286	65	52	211	27	81	2	15.91
KLHW 26	26,500	338	79	61	253	33	100	2	21.33

pewag KFW Clevis Foundry Hook



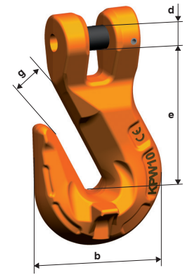
Code	WLL [kg]	e [mm]	h [mm]	a [mm]	g [mm]	d [mm]	b [mm]	Weight [kg/pc.]
KFW 7	1,900	121	29	25	64	9	118	1.02
KFW 8	2,500	120	29	25	64	10	118	1.04
KFW 10	4,000	140	35	32	76	12.50	143	1.74
KFW 13	6,700	170	42	40	89	16	170	3.38

pewag KPSW Clevis Grab Hook with Safety Catch



Code	WLL [kg]	e [mm]	b [mm]	d [mm]	g mm]	Weight [kg/pc.]
KPSW 7	1,900	63	57	9	9	0.48
KPSW 8	2,500	63	57	10	9	0.48
KPSW 10	4,000	78	71	12.50	12	0.93
KPSW 13	6,700	93	92	16	15	1.90
KPSW 16	10,000	115	113	20	19	3.55

pewag KPW Clevis Grab Hook

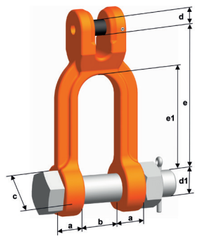


Code	WLL [kg]	e [mm]	b [mm]	d1 [mm]	d2 [mm]	Weight [kg/pc.]
KPW 6	1,400	47	44	7.40	7	0.19
KPW 7	1,900	63	57	9	9	0.46
KPW 8	2,500	63	57	10	9	0.46
KPW 10	4,000	78	71	12.50	12	0.90
KPW 13	6,700	93	92	16	15	1.85
KPW 16	10,000	115	113	20	19	3.49
KPW 19/20 [1]	16,000	141	150	24	25	6.88
KPW 22 [1]	19,000	158	165	27	27	9.68

[1] Shape without saddle

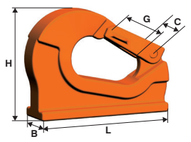
Exception:
Chain dimensions from 19/20 have not yet been adjusted. For technical reasons, chains with these dimensions must not touch the bearing surface of the hook.

pewag KSCHW Clevis Shackle



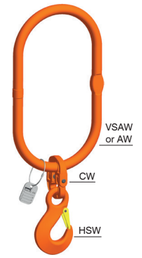
Code	WLL [kg]	e [mm]	e1 mm]	b min. [mm]	a [mm]	d [mm]	c [mm]	d1 [mm]	Weight [kg/pc.]
KSCHW 7	1,900	76	54	26	12	9	31	16	0.64
KSCHW 8	2,500	76	54	26	12	10	31	16	0.66
KSCHW 10	4,000	105	76	32	16	12.50	39	20	1.22
KSCHW 13	6,700	113	77	42	21	16	50	24	2.64

pewag AWHW Weld-On Hook

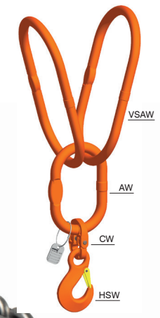


Code	WLL [kg]	L [mm]	H [mm]	G [mm]	B mm]	C [mm]	Weight [kg/pc.]
AWHW 1,3	1,300	95	74	20	25	34	0.67
AWHW 3,8	3,800	132	106	26	35	40	1.40
AWHW 6,3	6,300	167	133	29	45	49	2.95
AWHW 10	10,000	175	136	29	50	49	4.02

pewag ÜW Transition Assembly



Code	Single hook DIN 15401	WLL [kg]	Consisting of	Weight [kg/pc.]
ÜW 32/16 I AW-HSW Connex	32	16,000	AW 50/CW 26/HSW 19/20	28.86
ÜW 32/19 I AW-HSW Connex	32	19,000	AW 50/CW 26/HSW 22	30.54
ÜW 32/26,5 I AW-HSW Connex	32	26,500	AW 50/CW 26/HSW 26	36.89
ÜW 50/4 I VSAW-HSW Connex	50	4,000	VSAW 1-16/CW 16/HSW 10	12.54
ÜW 50/6,7 I VSAW-HSW Connex	50	6,700	VSAW 1-16/CW 16/HSW 13	13.73
ÜW 50/10 I VSAW-HSW Connex	50	10,000	VSAW 1-16/CW 16/HSW 16	15.05
ÜW 50/16 I VSAW-HSW Connex	50	16,000	VSAW 1-22/CW 22/HSW 19/20	28.22
ÜW 50/19 I VSAW-HSW Connex	50	19,000	VSAW 1-22/CW 22/HSW 22	29.90
ÜW 50/26,5 I VSAW-HSW Connex	50	26,500	VSAW 1-26/CW 26/HSW 26	41.89
ÜW 50/40 I AW-HSW Connex	50	40,000	AW 72/CW 32/HSW 32	80.76
ÜW 100/26,5 I VSAW-HSW Connex	100	26,500	VSAW 1-32/320/CW 26/HSW 26	68.89
ÜW 100/40 I VSAW-HSW Connex	100	40,000	VSAW 1-32/320/CW 32/HSW 32	87.26



Code	Single hook DIN 15402	WLL [kg]	Consisting of	Weight [kg/pc.]
ÜW 50/4 II VSAW-HSW Connex	50	4,000	2xVSAW 1-16/AW36/CW16/HSW10	28.09
ÜW 50/6,7 II VSAW-HSW Connex	50	6,700	2xVSAW 1-16/AW36/CW16/HSW13	29.28
ÜW 50/10 II VSAW- HSW Connex	50	10,000	2xVSAW 1-16/AW36/CW16/HSW16	30.60
ÜW 50/16 II VSAW-HSW Connex	50	16,000	2xVSAW 1-16/AW36/CW19/20/HSW19/20	33.10
ÜW 50/19 II VSAW-HSW Connex	50	19,000	2xVSAW 1-22/AW50/CW26/HSW22	67.09
ÜW 50/26,5 II VSAW-HSW Connex	50	26,500	2xVSAW 1-22/AW50/CW26/HSW26	73.44
ÜW 50/36 II VSAW-HSW Connex	50	36,000	2xVSAW 1-22/AW50/CW32/HSW32	91.81
ÜW 100/26,5 II VSAW-HSW Connex	100	26,500	2xVSAW 1-32/320/AW50/CW26/HSW26	133.44
ÜW 100/40 II VSAW-HSW Connex	100	40,000	2xVSAW 1-32/320/AW50/CW32/HSW32	151.81

Grade 120 Chains and Components

Lifting chains in G12 quality

A chain reaction meant to happen.

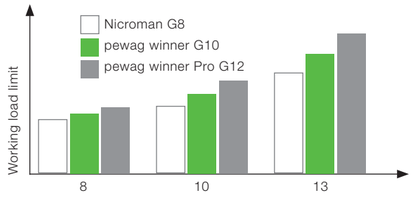
pewag is deservedly proud of its pioneering role when it comes to the production of lifting chains. The pewag name rests on outstanding quality features that are also the core element of our G12 programme: The 50% increase in the lashing capacity with our G12 range compared to standard G8 programmes results in a significant weight reduction that gives rise to numerous advantages in daily lifting operations. Ease-of-use and compliance with all legal stipulations are an area of pride and the responsible foundation out of which all our products grow. But our G12 products are still capable of more:

- **Intelligent profile:** Thanks to the intelligent use of material, the same cross-section achieves a marked improvement of the key characteristics of the chain, for instance fatigue resistance and bending resistance, compared to conventional round-steel chains. The use of material was optimised in key areas (blue sections) and reduced in less relevant areas (red sections) to achieve the best possible technical effects.
- **Higher bending resistance:** The moment of inertia that is crucial for the properties of the chain is up to 6% higher in a profile chain than in a roundlink chain with the same cross-section. For the user, this results in a higher degree of safety in case of edge-loading, which in practice is frequently misjudged, resulting in the failure of the chain.

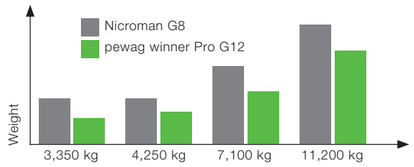
  In addition, the tensions within the chain are reduced (no red areas). This also has a positive effect for the user. Fatigue resistance and thus also the maximum number of possible loads (i.e. lifting operations) increases.

Other benefits at a glance:

- Approx. **50% higher working load limit** compared to G8, approx. **20% higher working load limit** compared to G10. This means that it is almost always possible to use a chain sling that is smaller by one nominal size compared to G8, saving weight and cost as well as making work processes easier.



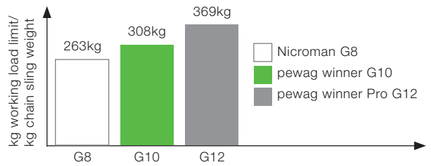
Significantly reduced weight and easier handling with pewag winner pro



Working load limit	Weight of chain up to now [kg]	pewag winner pro chain weight [kg]	% Reduction
3,350	16.60	9.37	44%
4,250	16.60	11.80	29%
7,100	28.53	19.19	33%
11,200	43.61	34.10	22%

Working load limit	Chain ø up to now	Chain ø pewag winner pro
4,250	10mm	8mm
7,100	13mm	10mm
11,200	16mm	13mm

- Highly efficient for many load ranges, as the size of the chain slings is **reduced by one dimension** compared to G8 and G10 chain slings
- Optimised strength and toughness characteristics at high and low temperatures thanks to **patented material**
- pewag winner pro defines the ”Formula 1” of technical chains thanks to its **weight-based performance**



- High stability and a low level of wear guarantee a **longer life span**
- **Innovative chain system** that may be used for lifting or lashing; also suitable for many other applications thanks to its robust design
- **Complete traceability** thanks to identification stamp on chains and components, enabling users to track the entire manufacturing process
- **Easy visual identification** thanks to profile chain and G12 stamp on each chain link
- Light blue powder coating of the WINPRO FLEX 300 chains and accessories provides **corrosion protection**, optionally also with the tried-and-tested corropro coating (PCP) for the highest level of corrosion resistance. See specialised brochure for more information. WINPRO FLEX 200 chains come with a light grey coat.

Sample order texts for pewag winner pro lifting products

This is a sample order for a fully adjusted, commercially available pewag chain sling: a pewag winner pro 8mm, II-leg chain sling with a shortening option and clevis safety hook, assembled with Connex connecting links, 3,500mm long.

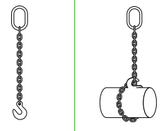
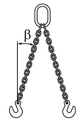
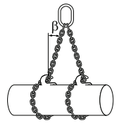
Connex system:

WINPRO 8 FLEX 300 II VLWP - KLHGWP - PWP 3000 Connex

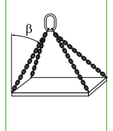
Nominal Diameter	Short Designation	Number of Legs	Master Link	End Hook	Shortening Hook	Length [mm]	Connex Mounted

Load capacities of pewag winner pro

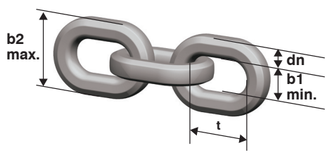
The load capacities listed are maximum values of the various sling types, stated according to the standard (Uniform Load) method of rating.

Safety factor 4		I-leg chains		II-leg chains				III- + IVleg chains
								
Angle of inclination β		-	-	0° – 45°	45° – 60°	0° – 45°	45° – 60°	0° – 45°
Load factor		1	0.8	1.4	1	1.12	0.8	2.1
Code	D	Load capacity (kg)						
WINPRO 7	**2,360**	**1,900**	**3,350**	**2,360**	**2,650**	**1,900**	**5,000**	**2,000**
WIN 7	7	1,900	1,500	2,650	1,900	2,120	1,500	4,000
Ni 7 G8	7	1,500	1,200	2,120	1,500	1,700	1,200	3,150
WINPRO 8	**8**	**3,000**	**2,360**	**4,250**	**3,000**	**3,350**	**2,360**	**6,300**
WIN 8	8	2,500	2,000	3,550	2,500	2,800	2,000	5,300
Ni 8 G8	8	2,000	1,600	2,800	2,000	2,240	1,600	4,250
WINPRO 10	**10**	**5,000**	**4,000**	**7,100**	**5,000**	**5,600**	**4,000**	**10,600**
WIN 10	10	4,000	3,150	5,600	4,000	4,250	3,150	8,000
Ni 10 G8	10	3,150	2,500	4,250	3,150	3,550	2,500	6,700
WINPRO 13	**13**	**8,000**	**6,300**	**11,200**	**8,000**	**9,000**	**6,300**	**17,000**
WIN 13	13	6,700	5,300	9,500	6,700	7,500	5,300	14,000
Ni 13 G8	13	5,300	4,250	7,500	5,300	5,900	4,250	11,200
WINPRO 16	**16**	**12,500**	**10,000**	**17,500**	**12,500**	**14,000**	**10,000**	**26,500**
WIN 16	16	10,000	8,000	14,000	10,000	11,200	8,000	21,200
Ni 16 G8	16	8,000	6,300	11,200	8,000	9,000	6,300	17,000

If the chain is subjected to extraordinarily severe conditions, the maximum working load limits as listed in the table must be reduced accordingly. Such conditions include high temperatures, asymmetrical loading, edge loading, impact loading etc.

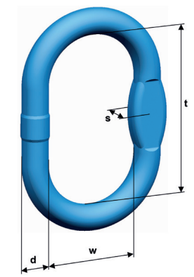
Safety factor 4		III- + IVleg chains	IV- leg chains with load distributor		Endless chain sling	Single lifting sling		Double lifting sling	
									
Angle of inclination β		45° – 60°	0° – 45°	45° – 60°	-	0° – 45°	45° – 60°	0° – 45°	45° – 60°
Load factor		1.5	2.8	2	1.6	1.4	1	2.1	1.5
Code	D	Load capacity (kg)							
WINPRO 7	**2,360**	**6,700**	**4,750**	**3,750**	**3,350**	**2,360**	**5,000**	**3,550**	**1,500**
WIN 7	7	2,800	5,300	3,750	3,000	2,650	1,900	4,000	2,800
Ni 7 G8	7	2,240	4,000	3,000	2,500	2,120	1,500	3,150	2,240
WINPRO 8	**8**	**4,500**	**8,500**	**6,000**	**4,750**	**4,250**	**3,000**	**6,300**	**4,500**
WIN 8	8	3,750	7,100	5,000	4,000	3,550	2,500	5,300	3,750
Ni 8 G8	8	3,000	5,600	4,000	3,150	2,800	2,000	4,250	3,000
WINPRO 10	**10**	**7,500**	**14,000**	**10,000**	**8,000**	**7,100**	**5,000**	**10,600**	**7,500**
WIN 10	10	6,000	11,200	8,000	6,300	5,600	4,000	8,000	6,000
Ni 10 G8	10	4,750	8,500	6,300	5,000	4,250	3,150	6,700	4,750
WINPRO 13	**13**	**11,800**	**-**	**-**	**12,500**	**11,200**	**8,000**	**17,000**	**11,800**
WIN 13	13	10,000	-	-	10,600	9,500	6,700	14,000	10,000
Ni 13 G8	13	8,000	-	-	8,500	7,500	5,300	11,200	8,000
WINPRO 16	**16**	**19,000**	**-**	**-**	**20,000**	**17,500**	**12,500**	**26,500**	**19,000**
WIN 16	16	15,000	-	-	16,000	14,000	10,000	21,200	15,000
Ni 16 G8	16	11,800	-	-	12,500	11,200	8,000	17,000	11,800

pewag winner pro 200 chains



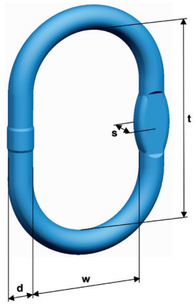
Code	DIA [mm]	t mm]	b1 [mm]	b2 max. [mm]	WLL [kg]	LC [kN]	BF [kN]	Weight [kg/m]
WINPRO FLEX 200 LAC/GY								
WINPRO 7 FLEX 200	7	22	10	26	2,360	47	92.60	1.36
WINPRO 8 FLEX 200	8	25	11.20	29	3,000	60	118	1.64
WINPRO 10 FLEX 200	10	33	14.20	37	5,000	100	196	2.70
WINPRO 13 FLEX 200	13	41	18.60	50	8,000	180	314	4.80
WINPRO 16 FLEX 200	16	51	22.80	60	12,500	250	491	7.17

pewag AWP Master link



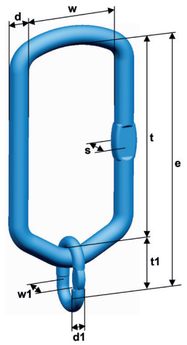
Code	WLL 0°-45° [kg]	I-leg chain slings	II-leg chain slings	t [mm]	d [mm]	w [mm]	s [mm]	Weight [kg/unit]
AWP 13	2,360	7	-	110	13	60	10	0.37
AWP 16	3,500	8	7	110	17	60	14	0.55
AWP 18	5,300	10	8	135	19	75	14	0.86
AWP 22	8,000	13	10	160	23	90	17	1.60
AWP 27	12,500	16	13	200	28	110	21	2.92
AWP 33	17,500	-	16	200	33	110	21	4.14

pewag MWP Oversize master link



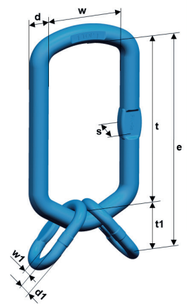
Code	WLL [kg]	For I-leg chain slings	For II-leg chain slings	t [mm]	d [mm]	w [mm]	s [mm]	Weight [kg/unit]
MWP 13	2,360	7	-	120	14	70	10	0.46
MWP 16	3,200	8	-	140	17	80	13	0.74
MWP 18	5,000	10	-	160	19	95	14	1.05
MWP 26	10,100	13	-	190	27	110	20	2.47
MWP 30	12,500	16	-	190	30	110	-	3.33
MWP 36	17,500	-	16	275	38	150	29	7.48

pewag VLWP 1 Oversize Master Link Assembly



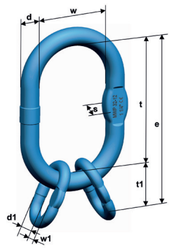
Code	Consists of	WLL [kg]	For I-leg chain slings	e [mm]	d [mm]	t [mm]	w [mm]	d1 [mm]	t1 [mm]	w1 [mm]	s [mm]	Weight [kg/unit]
VLWP 1-7/8	LWP 22 + BWP 13	3,000	7 + 8	394	23	340	155	13	54	25	16.50	3.37
VLWP 1-10	LWP 26 + BWP 16	5,000	10	410	27	340	155	17	70	34	21	3.56
VLWP 1-13	LWP 26	8,000	13	340	27	340	155	-	-	-	21	4.40
VLWP 1-16	LWP 32	12,500	16	340	33	340	155	-	-	-	26	6.60

pewag VLWP 2/4 Oversize Master Link Assembly



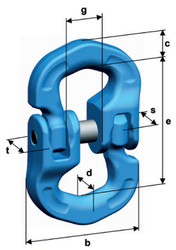
Code	Consists of	WLL 0°-45° [kg]	For II-leg chain slings	For III- and IV-leg chain slings	e [mm]	d [mm]	t [mm]	w [mm]	d1 [mm]	t1 [mm]	w1 [mm]	s [mm]	Weight [kg/unit]
VLWP 2-7/8	LWP 22 + 2 BWP 13	4,250	7/8	-	394	23	340	155	13	54	25	16.50	3.60
VLWP 2-10/4-7/8	LWP 26 + 2 BWP 16	7,100	10	7/8	410	27	340	155	17	70	34	21	5.20
VLWP 2-13/4-10	LWP 32 + 2 BWP 20	11,200	13	10	425	33	340	155	20	85	40	26	8.00
VLWP 2-16	LWP 36	17,500	16	-	340	38	340	155	-	-	-	29	8.90
VLWP 4-13	LWP 36 + 2 BWP 26	17,000	-	13	480	38	340	155	27	140	65	29	12.80
VLWP 4-16	LWP 40 + 2 BWP 32	26,500	-	16	490	40	340	155	33	150	70	29	16.30

pewag VMWP Oversize Master Link Assembly



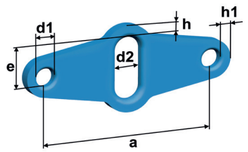
Code	Consists of	WLL 0°-45° [kg]	For II-leg chain slings	For III- and IV leg chain slings	e [mm]	d [mm]	t [mm]	w [mm]	d1 [mm]	t1 [mm]	w1 [mm]	s [mm]	Weight [kg/unit]
VMWP 2-7/8	MWP 18 + 2 BWP 13	4,250	7/8	-	214	19	160	95	13	54	25	14	1.47
VMWP 2-10/4-7/8	MWP 26 + 2 BWP 16	8,800	10	7/8	260	27	190	110	17	70	34	20	3.45
VMWP 2-13/4-10	MWP 32 + 2 BWP 20	12,300	13	10	315	33	230	130	20	85	40	26	6.28
VMWP 4-13	MWP 36 + 2 BWP 26	21,200	-	13	415	38	275	150	27	140	65	29	11.50
VMWP 4-16	MWP 36 + 2 BWP 32	26,500	-	16	425	38	275	150	33	150	70	29	13.80

pewag CWP Connex Connecting Link



Code	WLL [kg]	LC [kN]	e [mm]	c [mm]	s [mm]	t [mm]	d [mm]	b [mm]	g [mm]	Weight [kg/unit]
CWP 7	2,360	47	63	11.50	13	15.50	9	51	17	0.24
CWP 8	3,000	60	62	14	15	20	10	58	20	0.27
CWP 10	5,000	100	78	18	21	25	13	66	22	0.57
CWP 13	8,000	160	107	22	25	34	17	84	25	1.43
CWP 16	12,500	250	128	27	31	41	21	120	48	2.26

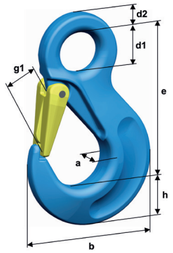
pewag AGWP Load Distributor



Code	Connecting link	WLL 0°-45° [kg]	WLL 45°-60° [kg]	Difference L1/L2 [Chain links]
AGWP 7/8	CWP 10	4,250	3,000	6 for 7 mm chains, 5 for 8 mm chains
AGWP 10	CWP 13	7,100	5,000	4

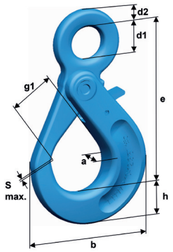
Code	a [mm]	e [mm]	d1 [mm]	d2 [mm]	h [mm]	h1 [mm]	s [mm]	Weight [kg/unit]
AGWP 7/8	210	51	22	25	15.50	14	15	1.75
AGWP 10	180	32	25	32	23	15.50	15	1.56

pewag HSWP Eye Sling Hook



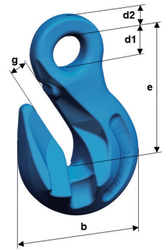
Code	WLL [kg]	LC [kN]	e [mm]	h [mm]	a [mm]	d1 [mm]	d2 [mm]	g1 [mm]	b [mm]	Weight [kg/unit]
HSWP 7/8	3,000	60	106	27	19	25	11	26	88	0.65
HSWP 10	5,000	100	131	33	26	34	16	31	108	1.29
HSWP 13	8,000	160	164	43	33	43	19	39	132	2.43

pewag LHWP Safety Hook



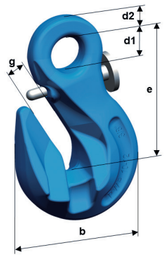
Code	WLL [kg]	LC [kN]	e [mm]	h [mm]	a [mm]	b [mm]	d1 [mm]	d2 [mm]	g1 [mm]	s max. [mm]	Weight [kg/unit]
LHWP 7/8	3,000	60	126	25	25	89	25	14	34	1	0.91
LHWP 10	5,000	100	158	31	28	112	31	17	45	1.50	1.56
LHWP 13	8,000	160	205	41	34	145	40	22	54	2	3.50

pewag PWP Grab Hook



Code	WLL [kg]	e [mm]	b [mm]	d1 [mm]	d2 [mm]	g [mm]	Weight [kg/unit]
PWP 7/8	3,000	68	63	18	11	10	0.51
PWP 10	5,000	88	81	22	14	13	1.04
PWP 13	8,000	110	103	26	18	17	2.19

pewag PSWP Grab Hook

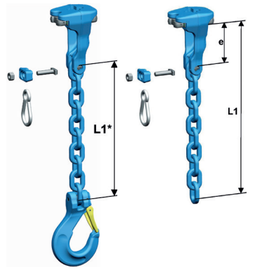


Code	WLL [kg]	LC [kN]	e [mm]	b [mm]	d1 [mm]	d2 [mm]	g [mm]	Weight [kg/unit]
PSWP 7/8	3000	60	68	63	18	11	10	0.53
PSWP 10	5000	100	88	81	22	14	13	1.05
PSWP 13	8000	160	110	103	26	18	17	1.89

pewag ISWP Integrated Shortening Element

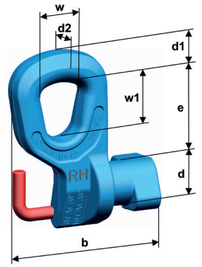
Code	WLL [kg]	e [mm]	a [mm]	b [mm]	d [mm]	g [mm]	Weight [kg/unit]
ISWP 10	5,000	100	99	78	14	12	2.42

pewag PTKWP



Code	WLL [kg]	L1 [mm]	e [mm]	e1 [mm]	Weight [kg/unit]
PTKWP 10 200	5,000	430	101	-	3.40
PTKWP 10 200 KHSWP	5,000	551	101	121	5.09
PTKWP 10 300	5,000	430	101	-	3.40
PTKWP 10 300 KHSWP	5,000	551	101	121	5.09

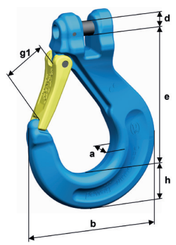
pewag CHWP Container Hook



Code	WLL [kg]	Working load limit as a set (4 units in case of vertical loading [kg]	Working load limit as a set (4 units) at max. 60° [kg]	Working load limit as a set (4 units) at max. 50° [kg]	Working load limit as a set (4 units) at max. 36° [kg]
CHWP 16	-	50,000	25,000	32,000	40,000
CHWP 16 LH	12,500	-	-	-	-
CHWP 16 RH	12,500	-	-	-	-

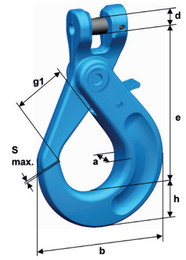
Code	WLL [kg]	e [mm]	b [mm]	d [mm]	d1 [mm]	d2 [mm]	w [mm]	w1 [mm]	Weight [kg/set]
CHWP 16	-	95	166	49	35	35	48	61	18.80
CHWP 16 LH	12,500	95	166	49	35	35	48	61	4.70
CHWP 16 RH	12,500	95	166	49	35	35	48	61	4.70

pewag KHSWP Clevis Hook



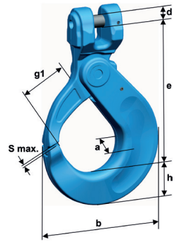
Code	WLL [kg]	LC [kN]	e [mm]	h [mm]	a [mm]	d [mm]	g1 [mm]	b [mm]	Weight [kg/unit]
KHSWP 7	2,360	47	105	26	19	9.50	36	101	0.85
KHSWP 8	3,000	60	105	26	19	10.70	36	101	0.85
KHSWP 10	5,000	100	121	33	26	14	41	118	1.68
KHSWP 13	8,000	160	148	43	30	17.50	49	147	2.99
KHSWP 16	12,500	250	173	51	35	21	59	176	5.10

pewag KLHWP Clevis Safety Hook



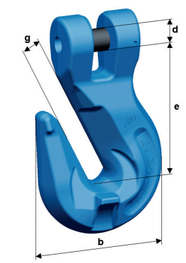
Code	WLL [kg]	e [mm]	h [mm]	a [mm]	b [mm]	d [mm]	g [mm]	s max. [mm]	Weight [kg/unit]
KLHWP 7	2,360	116	24.50	23.60	90	9.50	32	1	0.89
KLHWP 8	3,000	115	24.50	23.60	90	10.70	32	1	0.90
KLHWP 10	5,000	136	31.50	27.80	113	14	45	1	1.60
KLHWP 13	8,000	179	39.80	33.70	146	17.50	54	1.50	3.42

pewag KLHGWP Oversize safety hook



Code	WLL [kg]	e [mm]	h [mm]	a [mm]	b [mm]	d [mm]	d1 [mm]	s max. [mm]	Weight [kg/unit]
KLHGWP 7	2,360	131	27	21	107	9.5	48	1	1.10
KLHGWP 8	3,000	130	27	21	107	10.7	48	1	1.10
KLHGWP 10	5,000	166	35	26	137	14	61	1	2.16
KLHGWP 13	8,000	208	44	32	175	17.5	78	1.5	4.33
KLHGWP 16	12,500	237	54	37	195	21	86	2	7.70

pewag KPWP Clevis grab hook

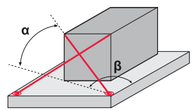


Code	WLL [kg]	e [mm]	h [mm]	a [mm]	b [mm]	Weight [kg/unit]
KPWP 7	2,360	63	70	10	10	0.58
KPWP 8	3,000	62	70	11	10	0.58
KPWP 10	5,000	73	83	14	12	1.00
KPWP 13	8,000	98	104	18	16	2.29
KPWP 16	12,500	124	123	21	19	4.32

Direct lashing

Lashing system: WINPRO 7 chain with dimension 7 load binder (LC 47 kN; for 4 lashing chains)								
Angle	Angle	Max. load with dynamic friction coefficient						
α	β	0.01	0.1	0.2	0.3	0.4	0.5	0.6
20 - 35°	21 - 30°	-	-	10,150	13,700	16,550	20,400	25,950
20 - 35°	31 - 40°	7,450	8,650	10,300	12,350	15,000	18,600	23,450
20 - 35°	41 - 50°	6,250	7,350	8,850	10,700	13,100	16,150	20,350
20 - 35°	51 - 60°	4,900	5,850	7,150	8,800	10,750	13,200	16,750
36 - 50°	21 - 30°	-	-	9,250	11,900	14,750	18,650	24,200
36 - 50°	31 - 40°	-	7,100	8,750	10,850	13,550	17,200	22,450
36 - 50°	41 - 50°	4,950	6,100	7,600	9,550	12,050	15,450	20,350
36 - 50°	51 - 60°	-	4,900	6,300	8,050	10,350	13,450	17,850
Lashing system: WINPRO 8 chain with dimension 8 load binder (LC 60 kN; for 4 lashing chains)								
Angle	Angle	Max. load with dynamic friction coefficient						
α	β	0.01	0.1	0.2	0.3	0.4	0.5	0.6
20 - 35°	21 - 30°	-	-	13,000	17,450	21,150	26,100	33,150
20 - 35°	31 - 40°	9,550	11,050	13,150	15,750	19,150	23,750	29,950
20 - 35°	41 - 50°	8,000	9,400	11,300	13,650	16,750	20,650	25,950
20 - 35°	51 - 60°	6,250	7,450	9,100	11,200	13,700	16,850	21,350
36 - 50°	21 - 30°	-	-	11,800	15,200	18,850	23,800	30,900
36 - 50°	31 - 40°	-	9,100	11,200	13,850	17,300	22,000	28,700
36 - 50°	41 - 50°	6,300	7,750	9,700	12,200	15,400	19,750	25,950
36 - 50°	51 - 60°	-	6,250	8,050	10,300	13,200	17,150	22,800
Lashing system: WINPRO 10 chain with dimension 10 load binder (LC 100 kN; for 4 lashing chains)								
Angle	Angle	Max. load with dynamic friction coefficient						
α	β	0.01	0.1	0.2	0.3	0.4	0.5	0.6
20 - 35°	21 - 30°	-	-	21,650	29,150	35,250	43,500	55,250
20 - 35°	31 - 40°	15,900	18,450	21,950	26,300	31,950	39,650	49,900
20 - 35°	41 - 50°	13,350	15,700	18,800	22,800	27,900	34,450	43,300
20 - 35°	51 - 60°	10,400	12,450	15,200	18,700	22,850	28,100	35,600
36 - 50°	21 - 30°	-	-	19,700	25,350	31,450	39,700	51,500
36 - 50°	31 - 40°	-	15,150	18,650	23,100	28,850	36,650	47,800
36 - 50°	41 - 50°	10,550	12,950	16,200	20,350	25,700	32,950	43,300
36 - 50°	51 - 60°	-	10,450	13,400	17,150	22,000	28,600	38,050
Lashing system: WINPRO 13 chain with dimension 13 load binder (LC 160 kN; for 4 lashing chains)								
Angle	Angle	Max. load with dynamic friction coefficient						
α	β	0.01	0.1	0.2	0.3	0.4	0.5	0.6
20 - 35°	21 - 30°	-	-	34,700	46,650	56,400	69,600	88,450
20 - 35°	31 - 40°	25,500	29,550	35,100	42,100	51,150	63,400	79,850
20 - 35°	41 - 50°	21,400	25,100	30,150	36,450	44,700	55,100	69,250
20 - 35°	51 - 60°	16,700	19,950	24,350	29,950	36,600	45,000	57,000
36 - 50°	21 - 30°	-	-	31,550	40,550	50,300	63,500	82,400
36 - 50°	31 - 40°	-	24,250	29,850	36,950	46,200	58,700	76,500
36 - 50°	41 - 50°	16,900	20,750	25,950	32,550	41,150	52,700	69,250
36 - 50°	51 - 60°	-	16,700	21,450	27,450	35,250	45,800	60,900

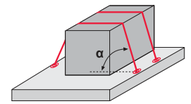
This table provides information on how to get the best use from the pewag lashing systems. The loads specified are maximum loads that may be secured using four equal lashing chains and given the specified angles and dynamic friction factors. Additional securing methods (i.e. wedges or similar) that may be used to secure even heavier weights have not been taken into account. Please contact our customer service for more information.
Every pewag lashing product has its own table. The maximum forces resulting from acceleration, braking and avoidance manoeuvres in road traffic acc. to EN 12195-1 were taken into account. Different tables apply for transport by rail and sea. Our customer service team will be pleased to provide additional information.



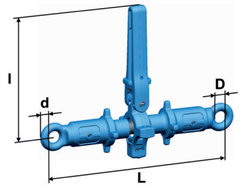
Frictional lashing

Tensioner with an STF value of: 1900 daN						
Angle	Max. load/chain with dynamic friction coefficient					
α	0.1	0.2	0.3	0.4	0.5	0.6
90	430	1,010	1,820	3,040	5,060	9,120
85	430	1,000	1,810	3,020	5,040	9,080
80	420	990	1,790	2,990	4,980	8,980
70	400	950	1,710	2,850	4,760	8,560
60	370	870	1,570	2,630	4,380	7,890
50	330	770	1,390	2,320	3,880	6,980
40	270	650	1,170	1,950	3,250	5,860
30	210	500	910	1,520	2,530	4,560
Tensioner with an STF value of: 2200 daN						
Angle	Max. load/chain with dynamic friction coefficient					
α	0.1	0.2	0.3	0.4	0.5	0.6
90	500	1,170	2,110	3,520	5,860	10,560
85	500	1,160	2,100	3,500	5,840	10,510
80	490	1,150	2,070	3,460	5,770	10,390
70	470	1,100	1,980	3,300	5,510	9,920
60	430	1,010	1,820	3,040	5,080	9,140
50	380	890	1,610	2,690	4,490	8,080
40	320	750	1,350	2,260	3,770	6,780
30	250	580	1,050	1,760	2,930	5,280
Tensioner with an STF value of: 2500 daN						
Angle	Max. load/chain with dynamic friction coefficient					
α	0.1	0.2	0.3	0.4	0.5	0.6
90	570	1,330	2,400	4,000	6,660	12,000
85	560	1,320	2,390	3,980	6,640	11,950
80	560	1,310	2,360	3,930	6,560	11,810
70	530	1,250	2,250	3,750	6,260	11,270
60	490	1,150	2,070	3,460	5,770	10,390
50	430	1,020	1,830	3,060	5,100	9,190
40	360	850	1,540	2,570	4,280	7,710
30	280	660	1,200	2,000	3,330	6,000
Tensioner with an STF value of: 3000 daN						
Angle	Max. load/chain with dynamic friction coefficient					
α	0.1	0.2	0.3	0.4	0.5	0.6
90	680	1,600	2,880	4,800	8,000	14,400
85	680	1,590	2,860	4,780	7,960	14,340
80	670	1,570	2,830	4,720	7,870	14,180
70	640	1,500	2,700	4,510	7,510	13,530
60	590	1,380	2,490	4,150	6,920	12,470
50	520	1,220	2,200	3,670	6,120	11,030
40	440	1,020	1,850	3,080	5,140	9,250
30	340	800	1,440	2,400	4,000	7,200

This table provides information on how to get the best use from the pewag lashing systems. The loads specified are maximum loads that may be secured using four equal lashing chains and given the specified angles and dynamic friction factors. Caution: Use at least two lashing devices for frictional lashing operations! Additional securing methods (i.e. wedges, using the side panel as a blocker etc.) that may be used to secure even heavier weights have not been taken into account in the table. Please contact our customer service for more information.
The values specified in the table only apply to situations where the lashing system on both sides of the load is not subject to the same tension force (STF) due to the deflection and edges. If this can be determined (e.g. using a pretensioning gauge), the values in the table may be increased by a factor of 1.3. The maximum loading weight depends on the STF value of the tensioning system, which is shown on the lashing system's tag. Every lashing system has its own table. The maximum forces resulting from acceleration, braking and avoidance manoeuvres in road traffic acc. to EN 12195-1 were taken into account. Different tables apply for transport by rail and sea. Our customer service team will be pleased to provide additional information

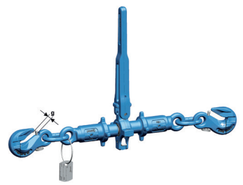


pewag RSKWP Load Binder



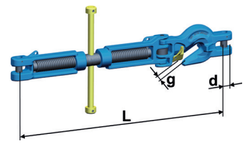
Code	WLL [kg]	Length when closed L [mm]	Length when open L [mm]	Tension range [mm]	Lever length l [mm]	D [mm]	d [mm]	Weight [kg/unit]
RSKWP 7/8	3,000	360	536	176	237	23	16	5.20
RSKWP 10	5,000	360	536	176	360	23	16	5.50
RSKWP 13	8,000	569	894	325	411	35	23	8.40
RSKWP 16	12,500	569	894	325	411	35	23	8.40

pewag RPSWP Load Binder



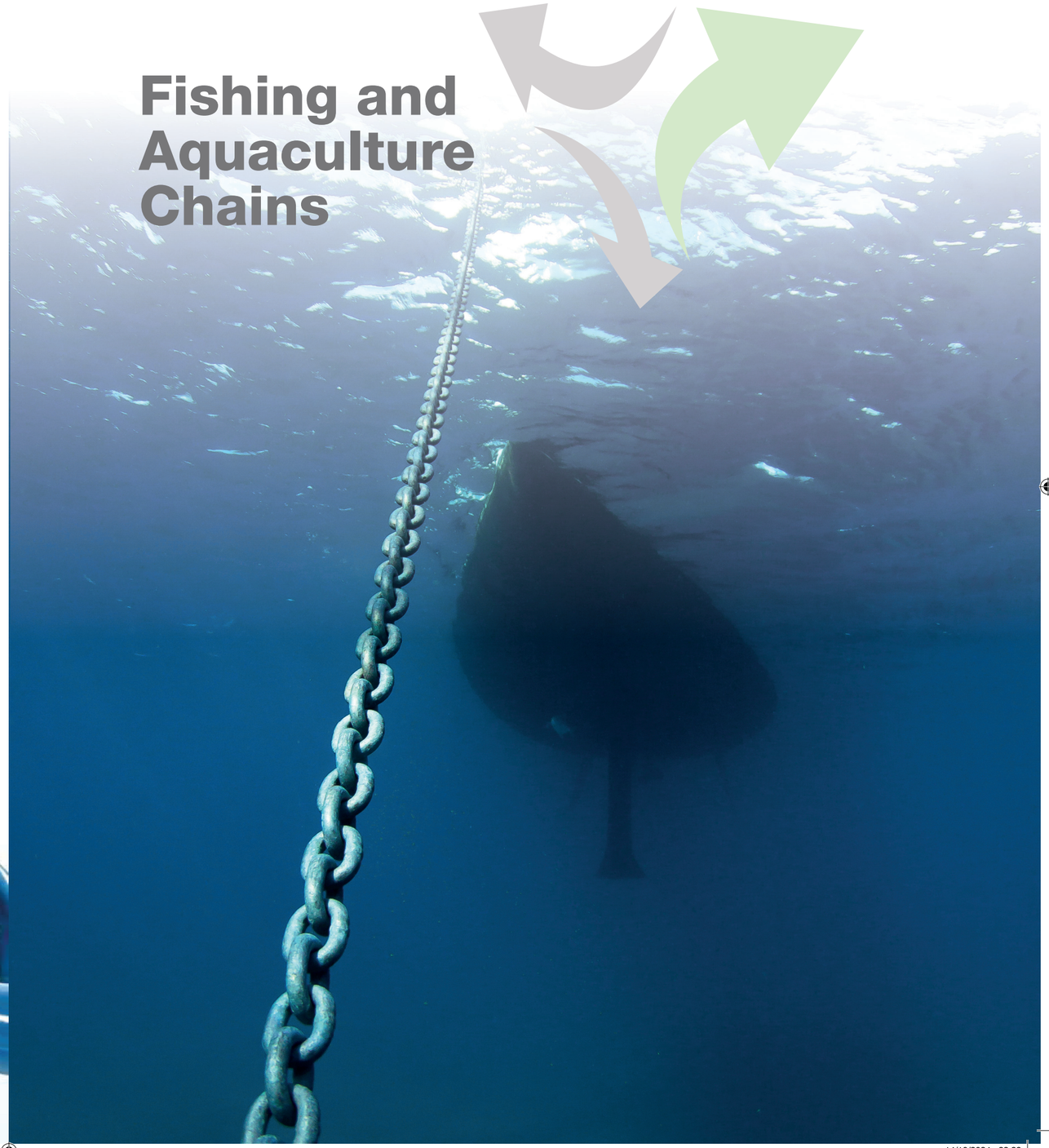
Code	LC [kN]	Standard tensioning forceSTF [daN]	Length when closed L [mm]	Length when open L [mm]	Clamping range [mm]	Lever length l [mm]	Jaw size g [mm]	Weight [kg/unit]
RPSWP 7	47	2,200	604	780	176	237	10	6.60
RPSWP 8	60	2,200	604	780	176	237	10	6.60
RPSWP 10	100	2,500	676	852	176	360	13	8.32
RPSWP 13	160	3,000	959	1,284	325	411	17	13.54

pewag KSPSWP Ratchet Binder



Code	LC [kN]	Standard tensioning force STF [daN]	Length when closed L [mm]	Length when open L [mm]	Tension range [mm]	d [mm]	g [mm]	Weight [kg/unit]
KSPSWP 10	100	-	440	621	181	14	12.5	4.10

Fishing and Aquaculture Chains



pewag G80 Short Link Fishing Chains

Product Number	Chain size metric Ø [m]	BF [kg]	Weight [kg/mt]
91232	7 x 21 x 10,5	6.000	1,10
91233	8 x 24 x 12	8.000	1,40
91230	10 x 30 x 14	12.500	2,20
91231	13 x 39 x 19	21.000	3,80
75239	16 x 48 x 23	32.000	5,70
75217	19 x 57 x 25	44.800	8,00
72753	22 x 66 x 29	61.100	11,00
29277	7 x 21 x 10,5	6.000	1,10
29284	8 x 24 x 12	8.000	1,40
29285	10 x 30 x 14	12.500	2,20
29286	13 x 39 x 19	21.000	3,80
29333	16 x 48 x 23	32.000	5,70

The standard chain is self-coloured, optionally it also available with COROLIM 8µm coating (PCP) (part # 29xxx).
Measurements subject to production tolerances and technical changes.

pewag G80 Mid Link Fishing Chains

Product Number	Chain size metric Ø [m]	BF [kg]	Weight [kg/mt]
87097	10 x 40 x 15	12.600	1,98
75221	10 x 40 x 19	12.600	2,05
87098	13 x 52 x 19,5	21.200	3,35
87099	16 x 64 x 24	32.000	5,06
87101	19 x 76 x 29	44.800	7,20
76230	22 x 88 x 30	62.000	9,24
On Request	24 x 84 x 31	73.400	11,90
On Request	26 x 92 x 31	86.600	13,66

The standard chain is self-coloured, optionally it also available with other finishing for an up-charge.
Measurements subject to production tolerances and technical changes.

pewag G80 Long Link Fishing Chains

Product Number	Chain size metric Ø [m]	BF [kg]	Weight [kg/mt]
75242	9 x 53 x 15	10.000	1,40
75360	11 x 64 x 18	15.000	2,10
78036	13 x 80 x 22	21.200	2,90
78217	16 x 100 x 26	32.100	4,40
78253	19 x 100 x 26	45.000	6,30
On Request	22 x 120 x 32	65.000	8,50
On Request	28 x 150 x 39	100.400	14,00
On Request	32 x 170 x 44	131.000	19,00
46559	9 x 53 x 15	10.000	1,40
46363	11 x 64 x 18	15.000	2,10
46391	13 x 80 x 22	21.200	2,90
46406	16 x 100 x 26	32.100	4,40
46519	19 x 100 x 26	45.000	6,30
78256	9 x 53 x 15	10.000	1,40
78268	11 x 64 x 18	15.000	2,10
78280	13 x 80 x 22	21.200	2,90
78287	16 x 100 x 26	32.100	4,40

The standard chain is self-coloured, optionally it also available with a Purple water-based spray colour, or with COROLIM 8µm coating (PCP) (part # 78xxx).
Measurements subject to production tolerances and technical changes.

pewag G95 Short Link Fishing Chains

Product Number	Chain size metric Ø [m]	BF [kg]	Weight [kg/mt]
95103	13 x 39 x 19	27.300	3,70
95129	16 x 48 x 23	41.000	5,70
95133	19 x 57 x 27	57.830	8,00

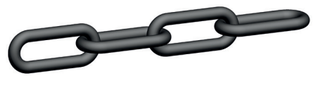
The standard chain is black self-coloured, optionally it also available with custom finishing.
Measurements subject to production tolerances and technical changes.

pewag G95 Mid Link Fishing Chains

Product Number	Chain size metric Ø [m]	BF [kg]	Weight [kg/mt]
75222	10 x 40 x 15	15.000	1,98
75223	13 x 52 x 19,5	25.000	3,35
75227	16 x 64 x 24	38.000	5,13
75231	19 x 76 x 29	54.000	7,20
On Request	22 x 86 x 26	70.000	9,90
On Request	26 x 92 x 31	95.000	13,66
75240	16 x 64 x 24	38.000	5,13
75241	19 x 76 x 29	54.000	7,20

The standard chain is self-coloured, optionally it also available with COROLIM 8µm coating (PCP) (part # 75240 and 75241). Measurements subject to production tolerances and technical changes.

pewag G95 Long Link Fishing Chains



Product Number	Chain size metric Ø [m]	BF [kg]	Weight [kg/mt]
1086	9 x 53 x 15	12.500	1,36
1113	11 x 64 x 18,5	18.500	2,03
1223	13 x 80 x 22	26.500	2,83
20816	16 x 100 x 26	40.000	4,34
20820	19 x 100 x 26	57.000	6,31
On Request	22 x 120 x 32	75.000	8,74
On Request	28 x 150 x 40	105.000	14,41

The standard chain is self-coloured, optionally it also available with a Purple water-based spray colour, or with COROLIM 8µm coating (PCP).
Measurements subject to production tolerances and technical changes.

pewag Tickler Chains for Bottom Trawlers

Product Number	Chain size metric Ø [m]	BF [kg]	Weight [kg/mt]
82261	12 x 42 x 16,8	18.000	2,96
82215	14 x 49 x 19,6	24.600	4,02
82251	16 x 56 x 22,4	32.000	5,26
82282	18 x 63 x 24	40.700	6,70

Other dimensions upon request.
Measurements subject to production tolerances and technical changes.

pewag G60 Long Link Aquaculture Chains

Product Number	Chain size metric Ø [m]	Indicative BF [kg]	Weight [kg/mt]
95150	9 x 53 x 15	11.250	1,40
95288	11 x 64 x 18	13.000	2,10
94973	11 x 72 x 19	13.000	2,20
95077	13 x 80 x 22	16.300	2,90
95097	16 x 100 x 30	24.700	4,60
95101	19 x 110 x 35	32.100	6,50
95282	22 x 125 x 38	46.600	8,70
95283	25 x 143 x 38	60.000	10,30
95284	28 x 150 x 40	75.300	14,90
95285	30 x 159 x 42	88.700	16,00
95286	32 x 170 x 44	98.300	19,00

Other dimensions finishing and grades upon request.
Measurements subject to production tolerances and technical changes

GR60 BRIDLES - MOORING - AQUACULTURE 10 METER LONG BRIDLE-WELDED MASTERLINK ON ONE END
HD Galvanized ISO 1461 with 85µm zinc protection average NO PEEL OFF

Product Number	Chain size metric Ø [m]	Indicative BF [kg]	Weight [kg/mt]
TBD	16 x 100 x 26 + AW22	22.800	47
TBD	19 x 100 x 26 + VW13	30.000	69

Other custom welded pendants with different master links available upon request.
Measurements subject to production tolerances and technical changes.

pewag Mooring Chains Genoese Style

Product Number	Chain size metric Ø [m]	Indicative BF [kg]	Weight [kg/mt]
90286	8 x 28 x 11,2	3.270	1,38
90287	10 x 35 x 14	5.120	2,16
90288	12 x 42 x 16,8	7.370	2,96
90289	14 x 49 x 19,6	10.000	4,20
90290	16 x 56 x 22,4	13.110	5,52
90373	16 x 64 x 24	16.380	5,30
90291	18 x 63 x 25,2	16.600	7,04
90374	19 x 76 x 29	23.100	7,46
90292	20 x 70 x 30	20.490	8,51
93526	22 x 77 x 33	24.790	10,00
25623	26 x 130 x 39	35,677	9.20
43056	30 x 150 x 45	47.650	17,66

Other dimensions finishing and grades upon request.
Measurements subject to production tolerances and technical changes.

pewag Corropro

pewag corropro is an electrochemical deposited anticorrosion coating, which has a bonded zinc pre-treatment.
In a dipping bath, an epoxy based anticorrosion layer is electrochemically deposited on the surface of the work pieces by coagulating the binder. This protective micro layer is hardened in special ovens at a temperature of 150°C-180°C. pewag corropro does not contain any heavy metals like lead, cadmium, and hexavalent chromium (CrVI-free).

Salt spray test – to ISO 9227 (NSS-test)

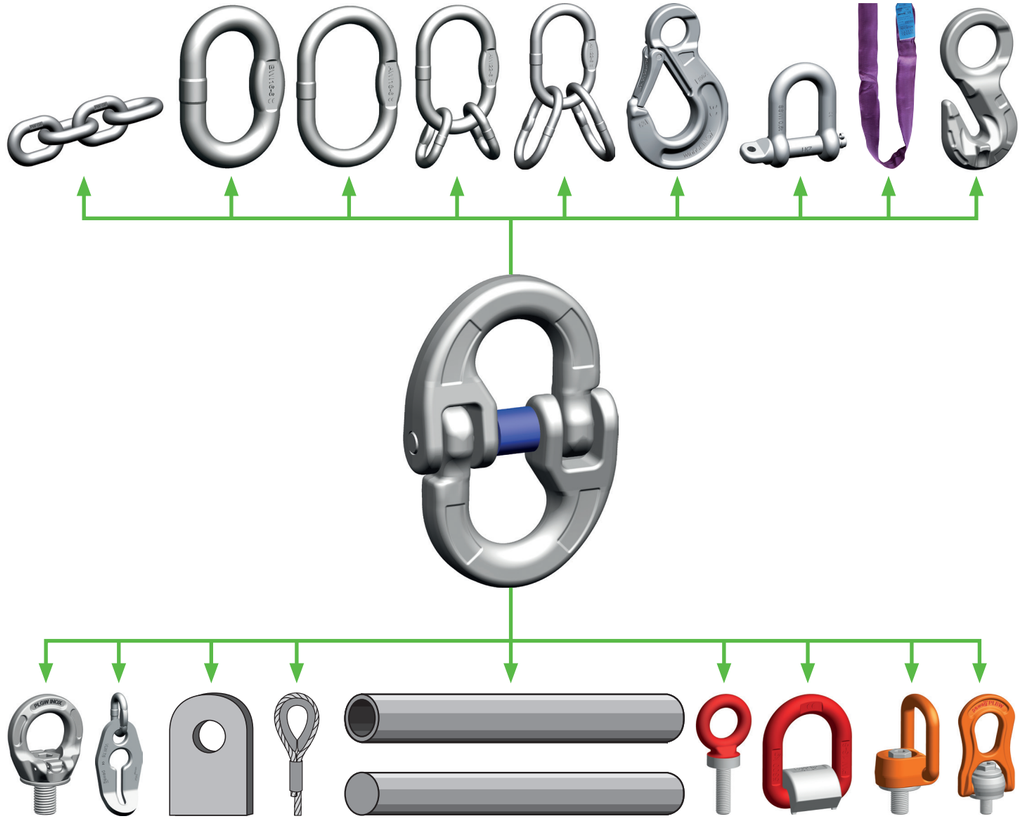
Starting situation	Final state
PCP – corropro	528 h
PC – powder coated	528 h
GZN – electro galvanized	288 h
LAC – varnished	168 h

Stainless Steel Chain and Chain Components

pewag The CWI Connex Connecting Link

The CWI Connex is not just any connecting link.
Indeed, the arguments in its favour are as incorruptible as… well, as steel:

- No special requirements for connecting are needed, for instance flat sections or similar.
- Other lifting accessories such as hooks, master links, shortenings etc. can be just as easily integrated.
- The two-part design makes for easy connection with eyes or openings or mounting over shafts and tubes.
- Easy retrofitting or dismantling.
- Due to the large radii of the system, Connex provides plenty of space during the linking process in a wide range of applications.
- CWI Connex is also known as the “problem solver” – there are hardly any limits when it comes to combination with other elements.



Extremely versatile when it comes to possible combinations: The trademark of the CWI Connex connecting link.

It is all about the combination within the assembled inox G6 plus system.

Now available with Duplex material

[1] Available on request in duplex material 1.4462 (AISI F51 / AISI 318 LN), except VLWI and SSWI

Below, you will find an overview of different combinations of components within the assembled system. The possibilities are nearly endless! Of course, there are many more options available. We are also happy to supply customised versions upon request. The pewag customer service team is here to help!

	DIA d [mm]	WLL l-leg [kg]	WLL 0-45° [kg]	WLL 45-60° [kg]	*Top fitting Master link /-assembly AWI/VWI	Shortener Chain shortener VLWI	**Possible end fittings Eye sling hook HSWI	Master link AWI	Transition link BWI	Shackle SSWI
I-leg chain sling										
	5	630	-	-	AWI 10-6	VLWI 5/6-6	HSWI 5/6-6	AWI 10-6	BWI 7-6	SSWI 0.63 t-S/-W
	6	900	-	-	AWI 13-6	VLWI 5/6-6	HSWI 5/6-6	AWI 13-6	BWI 7-6	SSWI 0.9 t-S
	7	1,250	-	-	AWI 13-6	VLWI 7/8-6	HSWI 7/8-6	AWI 13-6	BWI 9-6	SSWI 1.6 t-S
	8 [1]	1,600	-	-	AWI 13-6	VLWI 7/8-6	HSWI 7/8-6	AWI 13-6	BWI 10-6	SSWI 1.6 t-S
	10 [1]	2,500	-	-	AWI 16-6	VLWI 10-6	HSWI 10-6	AWI 16-6	BWI 13-6	SSWI 2.5 t-S
	13	4,250	-	-	AWI 22-6	VLWI 13-6	HSWI 13-6	AWI 22-6	BWI 16-6	SSWI 4.25 t-S
	16	6,300	-	-	AWI 22-6	VLWI 16-6	HSWI 16-6	AWI 22-6	BWI 20-6	SSWI 6.3 t-S

L = Effective working length according customer specification

II-leg chain sling										
	5	-	850	630	AWI 10-6	VLWI 5/6-6	HSWI 5/6-6	AWI 10-6	BWI 7-6	SSWI 0.63 t-S/-W
	6	-	1,250	900	AWI 13-6	VLWI 5/6-6	HSWI 5/6-6	AWI 13-6	BWI 7-6	SSWI 0.9 t-S
	7	-	1,750	1,250	AWI 16-6	VLWI 7/8-6	HSWI 7/8-6	AWI 13-6	BWI 9-6	SSWI 1.6 t-S
	8 [1]	-	2,200	1,600	AWI 16-6	VLWI 7/8-6	HSWI 7/8-6	AWI 13-6	BWI 10-6	SSWI 1.6 t-S
	10 [1]	-	3,500	2,500	AWI 18-6	VLWI 10-6	HSWI 10-6	AWI 16-6	BWI 13-6	SSWI 2.5 t-S
	13	-	5,950	4,250	AWI 22-6	VLWI 13-6	HSWI 13-6	AWI 22-6	BWI 16-6	SSWI 4.25 t-S
	16	-	8,800	6,300	AWI 26-6	VLWI 16-6	HSWI 16-6	AWI 22-6	BWI 20-6	SSWI 6.3 t-S

L = Effective working length according customer specification

III-leg chain sling										
	5	-	1,300	940	VWI 5-6	VLWI 5/6-6	HSWI 5/6-6	AWI 10-6	BWI 7-6	SSWI 0.63 t-S/-W
	6	-	1,850	1,350	VWI 6/7-6	VLWI 5/6-6	HSWI 5/6-6	AWI 13-6	BWI 7-6	SSWI 0.9 t-S
	7	-	2,600	1,850	VWI 6/7-6	VLWI 7/8-6	HSWI 7/8-6	AWI 13-6	BWI 9-6	SSWI 1.6 t-S
	8 [1]	-	3,350	2,400	VWI 8-6	VLWI 7/8-6	HSWI 7/8-6	AWI 13-6	BWI 10-6	SSWI 1.6 t-S
	10 [1]	-	5,250	3,750	VWI 10-6	VLWI 10-6	HSWI 10-6	AWI 16-6	BWI 13-6	SSWI 2.5 t-S
	13	-	8,900	6,350	VWI 13-6	VLWI 13-6	HSWI 13-6	AWI 22-6	BWI 16-6	SSWI 4.25 t-S
	16	-	13,200	9,400	VWI 16-6	VLWI 16-6	HSWI 16-6	AWI 22-6	BWI 20-6	SSWI 6.3 t-S

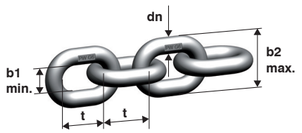
L = Effective working length according customer specification

III-leg chain sling										
	5	-	1,300	940	VWI 5-6	VLWI 5/6-6	HSWI 5/6-6	AWI 10-6	BWI 7-6	SSWI 0.63 t-S/-W
	6	-	1,850	1,350	VWI 6/7-6	VLWI 5/6-6	HSWI 5/6-6	AWI 13-6	BWI 7-6	SSWI 0.9 t-S
	7	-	2,600	1,850	VWI 6/7-6	VLWI 7/8-6	HSWI 7/8-6	AWI 13-6	BWI 9-6	SSWI 1.6 t-S
	8 [1]	-	3,350	2,400	VWI 8-6	VLWI 7/8-6	HSWI 7/8-6	AWI 13-6	BWI 10-6	SSWI 1.6 t-S
	10 [1]	-	5,250	3,750	VWI 10-6	VLWI 10-6	HSWI 10-6	AWI 16-6	BWI 13-6	SSWI 2.5 t-S
	13	-	8,900	6,350	VWI 13-6	VLWI 13-6	HSWI 13-6	AWI 22-6	BWI 16-6	SSWI 4.25 t-S
	16	-	13,200	9,400	VWI 16-6	VLWI 16-6	HSWI 16-6	AWI 22-6	BWI 20-6	SSWI 6.3 t-S

L = Effective working length according customer specification

pewag WOX Chain inox

WOX Chain inox

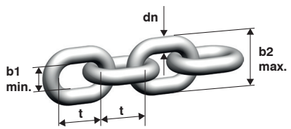


Now available with Duplex material

Code	Nominal DIA dn [mm]	Standard delivery length[m]	Pitch t [mm]	Inside width b1 min. [mm]	Outside width b2 max. [mm]	WLL [kg]	BF [kN]	Weight [kg/m]
WOX 4-6	4	50	12	5.80	14.80	400	16	0.40
WOX 5-6	5	50	15.10	7.50	18.50	630	25	0.61
WOX 6-6	6	50	18	8	21.50	900	37.50	0.88
WOX 7-6	7	50	21	9.50	25.20	1,250	50	1.19
WOX 8-6	8	50	24	10.80	28.60	1,600	63	1.53
WOX 10-6	10	50	30	13.50	36	2,500	100	2.40
WOX 13-6	13	25	39	17.50	46.80	4,250	170	4.05
WOX 16-6	16	25	48	21.50	57.60	6,300	250	6.00
WOX 20-5	20	-	60	27	72	8,000	314	9.29
WOX 26-4+	26	-	78	35	93.60	12,000	471	16.20

Material: 1.4404 (AISI 316 L) for WOX G6 and WOX G5
Material: 1.4571 (AISI 316 Ti) for WOX G4+

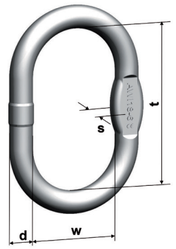
WOX Duplex chain inox



Code	Nominal DIA dn [mm]	Standard delivery length[m]	Pitch t [mm]	Inside width b1 min. [mm]	Outside width b2 max. [mm]	WLL [kg]	BF [kN]	Weight [kg/m]
WOX 8-6 D	8	50	24	10.80	28.60	1,600	63	1.53
WOX 10-6 D	10	50	30	13.50	36	2,500	100	2.40

Material: 1.4462 (AISI F51 / AISI 318 LN) for WOX G6-D

pewag AWI Master Link

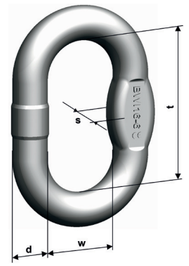


Code	WLL 0°-45° [kg]	For 1-leg slings	For 2-leg slings	d [mm]	t [mm]	w [mm]	s [mm]	Weight [kg/pc.]
AWI 8-6	560	4	4	8	60	35	-	0.08
AWI 10-6	850	5	5	10	80	50	-	0.16
AWI 13-6	1,600	6/7/8	6	13	110	60	10	0.34
AWI 16-6	2,600	10	7/8	16	110	60	14	0.53
AWI 18-6	3,500	-	10	18	135	75	14	0.83
AWI 22-6	6,300	13/16	13	23	160	90	17	1.55
AWI 26-6	8,900	20	16	27	180	100	20	2.46
AWI 32-6	13,200	-	20	32	200	110	26	3.86
AWI 36-6	14,700	-	-	36	260	140	29	6.22
AWI 45	12,000	26	-	45	340	180	-	12.82

Custom made, also with flattening available.

Material: 1.4404 (ASI 316 L) from AWI 8-6 to AWI 10-6 and from AWI 45
Material: 1.4462 (ASI F51 / AISI 318 LN) from AWI 13-6 to AWI 36-6

pewag BWI Transition Link

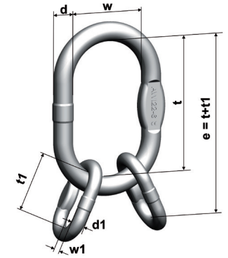


Code	WLL 0°-45° [kg]	d [mm]	t [mm]	w [mm]	s [mm]	Weight [kg/pc.]	For 1-leg slings	For 2-leg slings
BWI 7-6	900	7	36	16	-	0.04	5/6	5/6
BWI 9-6	1,250	9	44	20	-	0.07	7	7
BWI 10-6	1,600	10	44	20	-	0.09	8	8
BWI 13-6	2,500	13	54	25	10	0.18	10	10
BWI 16-6	4,250	16	70	34	14	0.35	13	13
BWI 20-6	6,300	20	85	40	16	0.67	16	16
BWI 22-6	8,000	23	115	50	17	1.16	20	-
BWI 26-6	10,070	27	140	65	20	1.92	-	-
BWI 32-6	12,000	32	150	70	26	3.18	26	-

Custom made, also with flattening available.

Material: 1.4404 (AISI 316 L) from BWI 7-6 to BWI 9-6
Material: 1.4462 (AISI F51 / AISI 318 LN) from BWI 10-6 to BWI 32-6

pewag VWI Master Link Assembly

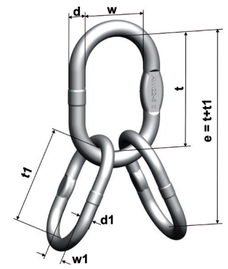


Code	Consisting of	WLL 0°-45° [kg]	Weight [kg/pc.]	e [mm]	d [mm]	t [mm]	w [mm]	d1 [mm]	t1 [mm]	w1 [mm]
VWI 4-6	AWI 10-6 + 2 BWI 9-6	840	0.28	124	10	80	50	9	44	20
VWI 5-6	AWI 13-6 + 2 BWI 10-6	1,300	0.52	154	13	110	60	10	44	20
VWI 6/7-6	AWI 16-6 + 2 BWI 13-6	2,600	0.91	164	16	110	60	13	54	25
VWI 8-6	AWI 18-6 + 2 BWI 16-6	3,350	1.64	205	18	135	75	16	70	34
VWI 10-6	AWI 22-6 + 2 BWI 20-6	5,250	3.02	245	23	160	90	20	85	40
VWI 13-6	AWI 26-6 + 2 BWI 22-6	8,900	4.78	295	27	180	100	23	115	50
VWI 16-6	AWI 32-6 + 2 BWI 26-6	13,200	7.98	340	32	200	110	27	140	65

Custom made, also with flattening available.
Number close to code constitutes chain, used in combination with product.

Material: 1.4404 (AISI 316 L) from VWI 4-6
Material: 1.4462 (AISI F51 / AISI 318 LN) from VWI 5-6-6 to VWI 16-6)

pewag VAWI Special Master Link Assembly

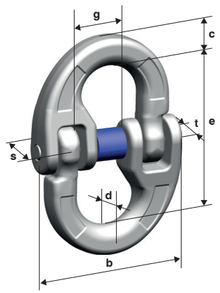


Code	Consisting of	WLL 0°-45° [kg]	Weight [kg/pc.]	e [mm]	d [mm]	t [mm]	w [mm]	d1 [mm]	t1 [mm]	w1 [mm]
VAWI 6-6	AWI 16-6 + 2 AWI 13-6	1,850	1.21	220	16	110	60	13	110	60
VAWI 7/8-6	AWI 18-6 + 2 AWI 16-6	3,350	1.98	245	18	135	75	16	110	60
VAWI 10-6	AWI 22-6 + 2 AWI 22-6	5,250	4.80	320	23	160	90	23	160	90
VAWI 13-6	AWI 26-6 + 2 AWI 26-6	8,900	7.38	360	27	180	100	27	180	100
VAWI 16-6	AWI 32-6 + 2 AWI 32-6	13,200	12.42	400	32	200	110	32	200	110

Number close to code constitutes chain, used in combination with product and attribution of ropes under construction of WLL in accordance of relevant rules of rope slings.

Material: 1.4462 (AISI F51 / AISI 318 LN)

pewag CWI Connex Connecting Link

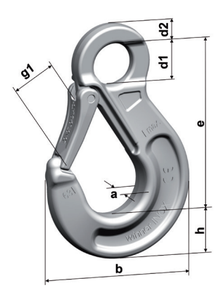


Code	WLL [kg]	e [mm]	c [mm]	s [mm]	t [mm]	d [mm]	b [mm]	g [mm]	Weight [kg/pc.]
CWI 5-6	630	36	7	10	11	7	34	13	0.06
CWI 6-6	900	42	8	11	12	7	40	13	0.08
CWI 7-6	1,250	54	9	13	14	9	51	17	0.14
CWI 8-6	1,600	58	10	13	14	8.50	51	17	0.16
CWI 10-6	2,500	73	13	18	18	13	70	25	0.37
CWI 13-6	4,250	92	17	23	25	17	86	29	0.76
CWI 16-6	6,300	104	21	32	28	20	105	37	1.41

Number close to code constitutes chain, used in combination with product.

Material: 1.4462 (AISI F51 / AISI 318 LN)
Material for bolt, sleeve and spring see spare parts set

pewag HSWI Eye Sling Hook

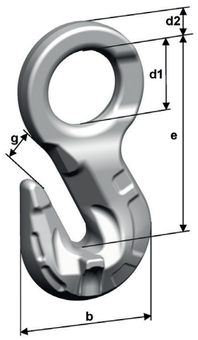


Code	WLL [kg]	e [mm]	h [mm]	a [mm]	d1 [mm]	d2 [mm]	g1 [mm]	b [mm]	Weight [kg/pc.]
HSWI 5/6-6	900	84	20	14	21	8	22	67	0.25
HSWI 7/8-6	1,600	112	29	20	27	13	32	98	0.70
HSWI 10-6	2,500	133	33	28	37	15	39	115	1.35
HSWI 13-6	4,250	172	43	35	48	18	51	147	2.60
HSWI 16-6	6,300	213	51	44	55	24	66	182	4.85

Number close to code constitutes chain, used in combination with product.

Material: 1.4462 (AISI F51 / AISI 318 LN)
Material for bolt, safety catch and spring see spare parts set

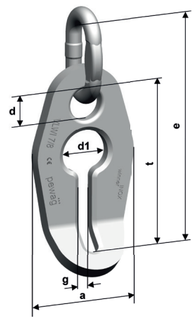
pewag PWI Grab Hook



Code	WLL [kg]	e [mm]	b [mm]	d1 [mm]	d2 [mm]	g [mm]	Weight [kg/pc.]
PWI 5/6	900	65	44	24,5	9	7,2	0,20

Material: 1.4462 (AISI F51 / AISI 318 LN

pewag VLWI Chain Shortener

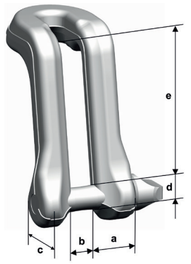


Code	WLL [kg]	e [mm]	e1 [mm]	a [mm]	d [mm]	d1 [mm]	g [mm]	Weight [kg/pc.]
VLWI 5/6-6	900	80	114	52	16	26	8	0.22
VLWI 7/8-6	1,600	111	156	68	22	34	11	0.57
VLWI 10-6	2,500	133	186	86	27	40	12	1.06
VLWI 13-6	4,250	169	242	108	32	52	16	2.22
VLWI 16-6	6,300	204	284	134	38	64	20	4.16

Number close to code constitutes chain, used in combination with product.

Material: 1.4404 (AISI 316 L) for link and 1.4571 (AISI 316 Ti) for shortener from VLWI 5/6-6
Material: 1.4462 (AISI F51 / AISI 318 LN) for link and 1.4571 (AISI 316 Ti) for shortener from VLWI 7/8-6 to VLWI 16-6

pewag LCWI Loop Connector

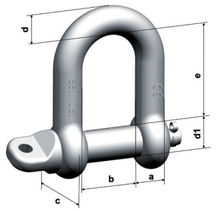


Code	WLL [kg]	e [mm]	b [mm]	a [mm]	b [mm]	c [mm]	Weight [kg/pc.]
LCWI 5-6 C	630	31	6	10	6	12	0.068

Maximum temperature in use is 110° C.

Material: 1.4462 (AISI F51 / AISI 318 LN)

pewag SSWI Safety Shackle



Code	WLL [kg]	e [mm]	a [mm]	b [mm]	d [mm]	d1 [mm]	c [mm]	Weight [kg/pc.]
SSWI 0,9 t-S	900	41	10	21.50	10	11	22	0.14
SSWI 0,63 t-S	630	33	8	18	8	9	18	0.07
SSWI 0,63 t-S-W	630	35	8	21.50	8	9	18	0.08
SSWI 1,6 t-S	1,600	41	12	26	12	13	25	0.22
SSWI 2,5 t-S	2,500	62	15	36	15	17	32	0.52
SSWI 4,25 t-S	4,250	78	18	42	18	21	46	1.00
SSWI 6,3 t-S	6,300	109	24	58	24	29	59	2.40
SSWI 26-C [1]	13,000	152	34	76	34	38	75	5.80

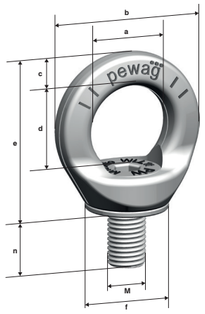
[1] Maximum temperature in use is 110° C.

Other sizes and special models available on request.
Stronger shackles are also available on request.
Currently SSWI without UKCA marking, on request possible with UKCA marking.

Bolt safety mechanism:
S = with safety splint
C = with bolt adhesive, at the moment only size SSWI 26 is available, further sizes upon request.

Material: 1.4404 (AISI 316 L) from SSWI 0,63t-S to SSWI 6,3t-S
Material: 1.4542 (AISI 630) from SSWI 26-C

pewag PLGWI Gamma inox



Code	Thread [mm]	WLL [kg]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	n [mm]	n max [mm]	⬡ [mm]	Weight [kg/pc.]
PLGWI 0,5 t	M12	500	30	55	12	30	59	30	18	160	8	0,23
PLGWI 1 t	M16	1.000	35	64	14	35	67	35	24	160	10	0,36
PLGWI 2 t	M20	2.000	40	72	17	40	80	45	30	160	12	0,60

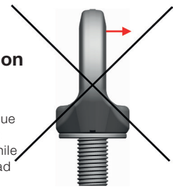
Lashing type										
Number of legs	1	1	2	2	2	2	3+4	3+4	2	3+4
Angle of inclination	0°	90°	0°	90°	0°-45°	45°-60°	0°-45°	45°-60°	asymm	asymm

Code	Thread [mm]	Torque [Nm]	Working load limit [kg]									
PLGWI 0,5 t	M12	25	1.500	500	3.000	1.000	700	500	1.060	750	500	500
PLGWI 1 t	M16	50	3.000	1.000	6.000	2.000	1.400	1.000	2.100	1.500	1.000	1.000
PLGWI 2 t	M20	115	3.800	2.000	7.600	4.000	2.800	2.000	4.200	3.000	2.000	2.000

Straight pull 0°
Higher working load limits for loading vertically to welding level (column"0°" in the working load limit table)

Lateral load direction "permitted" (ring is aligned) 90°
Higher working load limits for loading vertically to welding level (column "90°" in the working load limit table)

Lateral load direction "not permitted"
Application not permitted due to unstable conditions. The ring could turn suddenly while under load - highrisk for load and/or persons!



Naturally, the PLGW lifting point is also available in a rust-resistant version – as the PLGWI eye bolt, offering all the tried-andtested pewag advantages: Versatility when it comes to areas of application, accurately fitted measurements, optimised working load limits and unsurpassed ease-of-use. Please note that a hexagon Allen wrench is required as a tool for mounting and removal.

And the PLGWI offers even more than that:

The eyebolt is 360° rotatable, comes with an interchangeable special screw that is 100% crack-tested and is marked with the working load limit and the thread size! An integrated sleeve protects the surface of the load. The batch number displayed on all load-bearing parts such as the eye and screws as well as the serial number make identification, traceability and performance of mandatory, regular inspections easier than ever.

Additional benefits of the PLGW inox lifting point:

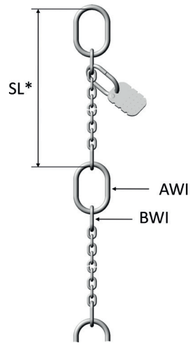
- Extendable areas of application thanks to Duplex steel with heightened rust-resistance
- The PRE/N value that determines the alloy composition and thus also the level of corrosion-resistance, lies at approx. 34.

Optionally also available with peTAG (NFC chip) or PIP (colour marking).

PLGWI gamma inox M12, M16 - available as a "basic" version (tool for assembly required)

PLGWI gamma inox M20 – available in "basic" version (tool for assembly required) and "supreme" version (no tool required for assembly)

pewag PCWI Stainless Steel Pump Chains



Code	WLL [kg]	Master link	Dimensions AWI [mm]	Transition link	Dimensions BWI [mm]	Chain type	Number of links	Segment length* [mm]	Weight SL* [kg]	Appropriately shackle / typ**
PCWI 4-6/320	320	AWI 6	6x60x35	-	-	WOX 4x12-5	77	984	0.39	SSWI 0.63 t -S/-W
PCWI 4-6/400	400	AWI 8	8x60x35	BWI 5	5x26x13	WOX 4x12	73	988	0.39	SSWI 0.63 t -S/-W
PCWI 5-6/560	560	AWI 8	8x60x35	BWI 7	7x36x16	WOX 5x15	53	943	0.43	SSWI 0.63 t -S/-W
PCWI 5-6/630	630	AWI 10	10x80x50	BWI 7	7x36x16	WOX 5x15	53	963	0.62	SSWI 0.63 t -S/-W
PCWI 6-6	850	AWI 10	10x80x50	BWI 7	7x36x16	WOX 6x18	47	998	0.68	SSWI 0.9 t -S
PCWI 7-6	1,250	AWI 13	13x110x60	BWI 9	9x44x20	WOX 7x21	37	975	1.35	SSWI 1.6 t -S
PCWI 8-6	1,600	AWI 13	13x110x60	BWI 10	10x44x20	WOX 8x24	33	990	1.70	SSWI 1.6 t -S
PCWI 10-6	2,500	AWI 16	16x110x60	BWI 13	13x54x25	WOX 10x30	25	968	2.60	SSWI 2.5 t -S
PCWI 13-6	3,500	AWI 18	18x135x75	BWI 16	16x70x34	WOX 13x39	19	1,016	4.50	SSWI 4.25 -S
PCWI 16-6	6,300	AWI 22	23x160x90	BWI 20	20x85x40	WOX 16x48	15	1,050	8.00	SSWI 6.3 t -S
PCWI 20-5	8,000	AWI 26	27x180x100	BWI 22	23x115x50	WOX 20x60	27	2,030	21.00	SSWI 26-C
PCWI 26-4+	12,000	AWI 45	45x340x180	BWI 32	32x150x70	WOX 26x78	19	2,122	43.20	SSWI 26-C

[1] PCWI pump sling in Duplex material 1.4462 (AISI F51 / AISI 318 LN), except SSWI

All dimensions given in this folder are nominal dimensions. Depending on the manufacturing process they are subject to various manufacturing tolerances.
*SL consisting of 1 x AWI, 2 x BWI, WOX chain in standard length. PCWI 4/320 is manufactured without transition link BWI.
**Please pay attention to the matching shackle. If necessary, please contact our customer service.

Now available with Duplex material

Code	WLL [kg]	Master link	Dimensions AWI [mm]	Transition link	Dimensions BWI [mm]	Chain type	Number of links	Segment length* [mm]	Weight SL* [kg]	Appropriately shackle / typ**
PCWI 8-6 D [1]	1,600	AWI 13	13x110x60	BWI 10	10x44x20	WOX 8x24 D	33	990	1.70	SSWI 1.6 t -S
PCWI 10-6 D [1]	2,500	AWI 16	16x110x60	BWI 13	13x54x25	WOX 10x30 D	25	968	2.60	SSWI 2.5 t -S

Systematic expediency
These pump chains are tested for perfection and serialised with a dedicated identification tag and test certificate, issued individually for each chain. Enlarged master links at the beginning, at segmented intervals and at the end of the chain make them ideally suited for step-by-step lowering, lifting or locking.

Upon request, we also offer customised variations:

- Two-legged system with "Y" for pumps equipped with 2 eye screws.
- Alternative end fittings, such as eye hooks, BWI links or shackles.
- Additional stabilisation chain.
- Variation of standard segment length.
- Customised models available.
- Stainless steel hoist chains for pump stations are available upon request.

We recommend safety shackles type SSWI for joining the pump to the chain. When placing an order, please indicate the desired total length of the chain or the number of segments as well as the end fitting (e.g. AWI Master link).

Note: The actual length is a multiple of the segment length, plus the length of the end fitting!

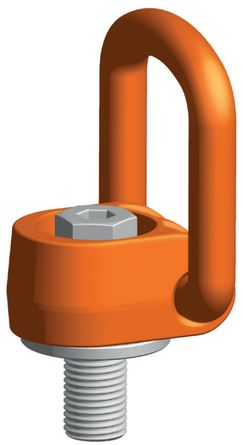
2

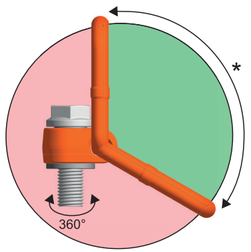
PROLIFT
HANDLING LTD

Lifting Accessories

- Lifting Points
- Lifting Clamps
- Remote Controlled Lifting Devices
- Lifting Magnets
- Shackles

pewag PLAW Alpha

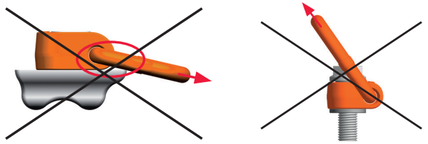




- Patented spring positions load ring at any required angle
- 360° rotatable / 130° offset
- No side load reduction required - same pull strength in any direction
- Wide lifting ring accommodates larger hooks and components
- Interchangeable grade 10.9 bolt is corrosion protected and 100% crack-tested
- Typically used on multi-leg assembly
- Traceable with serial number
- Available in UNC up to 1-3/4” and Metric up to M48 For additional details and information, please refer to the full operating manual.

Lashing type												
Number of legs			1	1	2	2	2	2	3+4	3+4	2	3+4
Angle of inclination			0°	90°	0°	90°	0°-45°	45°-60°	0°-45°	45°-60°	asymm	asymm
Code	Thread [mm]	Torque [mm]	Working load limit [kg]									
PLAW 0,3 t	M8	35	300	300	600	600	400	300	600	400	300	300
PLAW 0,63 t	M10	70	630	630	1.260	1.260	850	630	1.300	900	630	630
PLAW 1 t	M12	120	1.000	1.000	2.000	2.000	1.400	1.000	2.100	1.500	1.000	1.000
PLAW 1,5 t	M16	150	1.500	1.500	3.000	3.000	2.100	1.500	3.100	2.200	1.500	1.500
PLAW 2,5 t	M20	170	2.500	2.500	5.000	5.000	3.500	2.500	5.300	3.700	2.500	2.500
PLAW 4 t (/13)	M24	400	4.000	4.000	8.000	8.000	5.600	4.000	8.400	6.000	4.000	4.000
PLAW 6 t	M30	500	6.000	6.000	12.000	12.000	8.500	6.000	12.700	9.000	6.000	6.000
PLAW 7 t	M36	700	7.000	7.000	14.000	14.000	9.800	7.000	14.800	10.500	7.000	7.000
PLAW 8 t	M36	800	8.000	8.000	16.000	16.000	11.300	8.000	16.900	12.000	8.000	8.000
PLAW 10 t	M42	1.500	10.000	10.000	20.000	20.000	14.000	10.000	21.000	15.000	10.000	10.000
PLAW 15 t	M42	1.500	15.000	15.000	30.000	30.000	21.000	15.000	31.500	22.500	15.000	15.000
PLAW 20 t	M48	2.000	20.000	20.000	40.000	40.000	28.000	20.000	42.000	30.000	20.000	20.000

Safety factor 4:1



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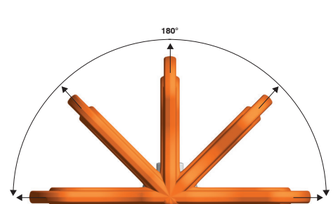
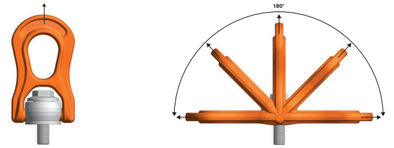
pewag PLBW Beta



- Patented spring positions load ring at any required angle, one hand rigging
- Heavy duty forged lifting bale pivots 180° and is 360° rotatable
- Lifting bale design accomodates larger hooks and components
- Interchangeable grade 10.9 bolt is corrosion protected & 100% crack-tested
- Traceable with serial number
- Available in UNC up to 1-1/2” and Metric up to M48

Lashing type												
Number of legs			1	1	2	2	2	2	3+4	3+4	2	3+4
Angle of inclination			0°	90°	0°	90°	0°-45°	45°-60°	0°-45°	45°-60°	asymm	asymm
Code	Thread [mm]	Torque [mm]	Working load limit [kg]									
PLBW 0,3 t	M8	6	500	300	1.000	600	400	300	600	450	300	300
PLBW 0,6 t	M10	10	1.000	600	2.000	1.200	800	600	1.300	900	600	600
PLBW 1 t	M12	15	1.300	1.000	2.600	2.000	1.400	1.000	2.100	1.500	1.000	1.000
PLBW 1,3 t	M14	30	2.000	1.300	4.000	2.600	1.800	1.300	2.700	1.900	1.300	1.300
PLBW 1,6 t	M16	50	2.500	1.600	5.000	3.200	2.200	1.600	3.400	2.400	1.600	1.600
PLBW 2 t	M18	70	3.000	2.000	6.000	4.000	2.800	2.000	4.200	3.000	2.000	2.000
PLBW 2,5 t	M20	100	3.500	2.500	7.000	5.000	3.500	2.500	5.300	3.700	2.500	2.500
PLBW 3 t	M22	120	4.500	3.000	9.000	6.000	4.200	3.000	6.300	4.500	3.000	3.000
PLBW 4 t	M24	160	5.500	4.000	11.000	8.000	5.600	4.000	8.400	6.000	4.000	4.000
PLBW 5 t	M27	200	6.500	5.000	13.000	10.000	7.000	5.000	10.500	7.500	5.000	5.000
PLBW 6,3 t	M30	250	7.000	6.300	14.000	12.600	8.800	6.300	13.200	9.400	6.300	6.300
PLBW 8 t	M33	270	9.000	8.000	18.000	16.000	11.000	8.000	16.500	12.000	8.000	8.000
PLBW 10 t	M36	320	11.000	10.000	22.000	20.000	14.000	10.000	21.000	15.000	10.000	10.000
PLBW 12,5 t	M42	400	13.500	12.500	27.000	25.000	17.500	12.500	26.300	18.700	12.500	12.500
PLBW 15 t	M48	600	16.000	15.000	32.000	30.000	21.000	15.000	32.000	22.500	15.000	15.000

Safety factor 4:1



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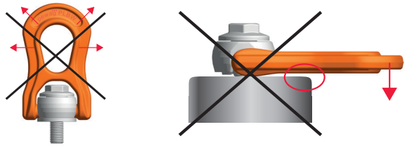

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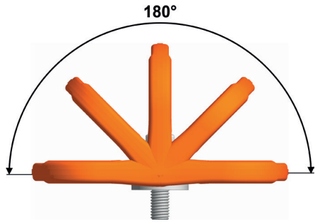
pewag PLZW Zeta

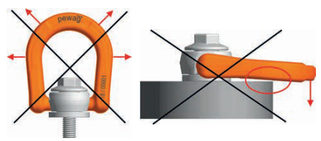


- Enables the simple attachment of closed lifting equipment without the use of additional shackles or connecting links
- Assembled or disassembled in one easy step - without tools! (applies up to thread size M24)
- Can be rotated 360° and can be loaded in all directions
- Sleeve protects the surface of the load from damage
- Safety factor of 5:1
- Replaceable bolt is corrosion protected & 100% crack-tested, as well as a marking from the manufacturer, load capacity, thread size, and tightening torque
- Traceable with serial number

Lashing type											
Number of legs			1	1	2	2	2	2	3+4	3+4	2	3+4
Angle of inclination			0°	90°	0°	90°	0°-45°	45°-60°	0°-45°	45°-60°	asymm	asymm
Code	Thread [mm]	Torque [mm]	WLL [kg]									
PLZW 0,4 t*	M8	10	800	400	1.600	800	560	400	840	600	400	400
PLZW 0,63 t*	M10	10	1.100	630	2.200	1.260	890	630	1.330	940	630	630
PLZW 0,95 t*	M12	15	1.100	950	2.200	1.900	1.340	950	2.010	1.420	950	950
PLZW 1,8 t*	M16	50	2.900	1.800	5.800	3.600	2.540	1.800	3.810	2.700	1.800	1.800
PLZW 2,5 t*	M20	100	2.900	2.500	5.800	5.000	3.530	2.500	5.300	3.750	2.500	2.500
PLZW 4 t*	M24	160	6.500	4.000	13.000	8.000	5.650	4.000	8.480	6.000	4.000	4.000
PLZW 6,3 t	M30	250	6.500	6.300	13.000	12.600	8.900	6.300	13.360	9.450	6.300	6.300
PLZW 10 t	M36	320	15.000	10.000	30.000	20.000	14.100	10.000	21.200	15.000	10.000	10.000
PLZW 13 t	M42	400	15.000	13.000	30.000	26.000	18.300	13.000	27.500	19.500	13.000	13.000
PLZW 15 t	M48	600	15.000	15.000	30.000	30.000	21.200	15.000	31.800	22.500	15.000	15.000

Safety factor 4:1 * dismountable without tools

Displayed usage permitted



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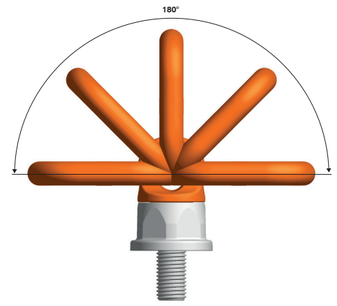
pewag PLDW Delta

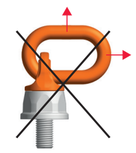


- Fully rotatable 360° even under maximum load
- Wide lifting ring accommodates larger hooks and components
- Compact design reduces mounting space
- Corrosion protected grade 12.9 bolt is 100% crack-tested
- Traceable with serial number
- Available in UNC up to 2-1/2" and Metric up to M100

Lashing type											
Number of legs			1	1	2	2	2	2	3+4	3+4	2	3+4
Angle of inclination			0°	90°	0°	90°	0°-45°	45°-60°	0°-45°	45°-60°	asymm	asymm
Code	Thread [mm]	Torque [mm]	WLL [kg]									
PLDW 0,3 t	M8	10	600	300	1.200	600	400	300	600	400	300	300
PLDW 0,5 t	M10	10	1.200	500	2.400	1.000	700	500	1.000	750	500	500
PLDW 0,7 t	M12	15	1.800	700	3.600	1.400	950	700	1.400	1.000	700	700
PLDW 1 t*	M14	25	2.400	1.000	4.800	2.000	1.400	1.000	2.100	1.500	1.000	1.000
PLDW 1,5 t	M16	30	2.800	1.500	5.600	3.000	2.100	1.500	3.100	2.200	1.500	1.500
PLDW 2,5 t	M20	80	5.000	2.500	10.000	5.000	3.500	2.500	5.300	3.500	2.500	2.500
PLDW 4 t	M24	150	7.000	4.000	14.000	8.000	5.500	4.000	8.400	6.000	4.000	4.000
PLDW 5,3 t	M30	230	7.000	5.300	14.000	10.600	7.400	5.300	11.200	7.900	5.300	5.300
PLDW 6,7 t	M30	230	10.000	6.700	20.000	13.400	9.400	6.700	14.200	10.000	6.700	6.700
PLDW 8 t	M36	450	12.500	8.000	25.000	16.000	11.200	8.000	16.800	12.000	8.000	8.000
PLDW 10 t	M42	600	16.000	10.000	32.000	20.000	14.000	10.000	21.000	15.000	10.000	10.000
PLDW 12 t	M45	600	16.000	12.000	32.000	24.000	16.900	12.000	25.400	18.000	12.000	12.000
PLDW 13 t	M48	600	16.000	13.000	32.000	26.000	18.300	13.000	27.500	19.500	13.000	13.000
PLDW 13 t	M52	600	16.000	13.000	32.000	26.000	18.300	13.000	27.500	19.500	13.000	13.000
PLDW 24 t	M56	800	28.000	24.000	56.000	48.000	33.900	24.000	50.900	36.000	24.000	24.000
PLDW 25 t	M64	800	28.000	25.000	56.000	50.000	35.300	25.000	53.000	37.500	25.000	25.000
PLDW 40 t	M72	1.200	60.000	40.000	120.000	80.000	56.500	40.000	84.800	60.000	40.000	40.000
PLDW 45 t	M80	1.400	60.000	45.000	120.000	90.000	63.600	45.000	95.400	67.500	45.000	45.000
PLDW 55 t	M90	1.500	60.000	55.000	120.000	110.000	77.700	55.000	116.600	82.500	55.000	55.000
PLDW 55 t	M100	1.600	60.000	55.000	120.000	110.000	77.700	55.000	116.600	82.500	55.000	55.000

Safety factor 4:1

Displayed usage permitted



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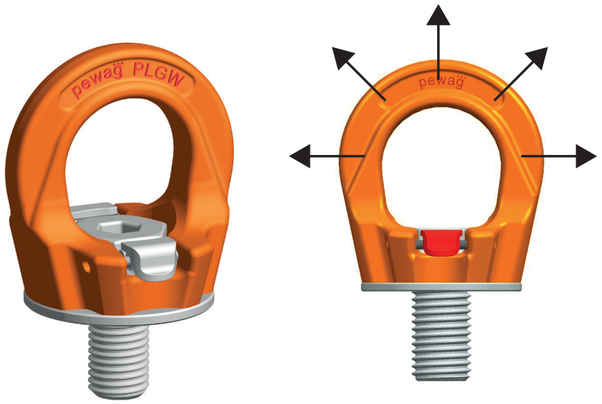
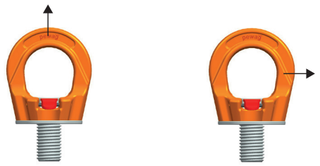
pewag PLGW Gamma



- Fully rotatable 360° even under maximum load
- No tools or torque value required
- Patented latch reduces both installation time and labor
- Eyebolt is rotatable by 360° when unlocked
- Interchangeable grade 10.9 bolt is corrosion protected and 100% crack-tested
- Traceable with serial number
- Available in UNC thread up to 1-3/4″ and Metric thread up to M48
- Replacement latches available

Lashing type												
Number of legs			1	1	2	2	2	2	3+4	3+4	2	3+4
Angle of inclination			0°	90°	0°	90°	0°-45°	45°-60°	0°-45°	45°-60°	asymm	asymm
Code	Thread [mm]	Torque [mm]	WLL [kg]									
PLGW 0,3 t	M8	Simply tighten by hand	1.000	300	2.000	600	420	300	630	450	300	300
PLGW 0,5 t	M10		1.500	500	3.000	1.000	700	500	1.060	750	500	500
PLGW 0,7 t	M12		2.000	700	4.000	1.400	980	700	1.480	1.050	700	700
PLGW 1,5 t	M16		4.000	1.500	8.000	3.000	2.100	1.500	3.180	2.200	1.500	1.500
PLGW 2,3 t	M20		5.000	2.300	10.000	4.600	3.200	2.300	4.800	3.400	2.300	2.300
PLGW 3,2 t	M24		6.500	3.200	13.000	6.400	4.500	3.200	6.700	4.800	3.200	3.200
PLGW 4,9 t	M30		12.000	4.900	24.000	9.800	6.900	4.900	10.300	7.300	4.900	4.900
PLGW 7 t	M36		15.000	7.000	30.000	14.000	9.800	7.000	14.800	10.500	7.000	7.000
PLGW 9 t	M42		22.000	9.000	44.000	18.000	12.600	9.000	19.000	13.500	9.000	9.000
PLGW 12 t	M48		30.000	12.000	60.000	24.000	16.900	12.000	25.400	18.000	12.000	12.000

Safety factor 4:1 * dismountable without tools



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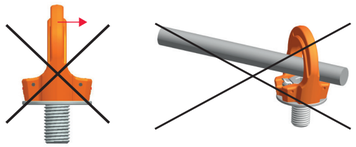

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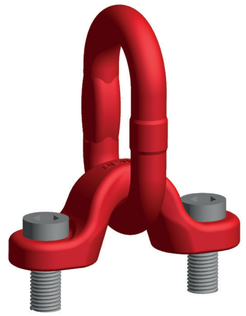
pewag Welding points and hooks

AOR Lashing point



- Intended for attachment to steel, aluminum, or non-ferrous metal structures and components
- Designed to connect structures and components to hoisting means for handling
- Marked with nominal carrying capacity (WLL) in tons or nominal size of the chain
- Nominal carrying capacity applies to the lashing point itself, not the overall load or suspension gear
- Conformity with Machinery Directive 2006/42/EG and CE symbol marking
- Type tested for reliability
- Safety factor of at least 4 in relation to their load capacity

Code	Thread [mm]	WLL [kg]
AOR 10	M16	3.150
AOR 13	M20	5.300
AOR 16	M30	8.000
AOR 22	M36	15.000
AOR 26 [1)]	M42	21.200
AOR 28 [1)]	M45	25.000
AOR 32 [1)]	M56	31.500
AOR 34 [1)]	M56	36.000

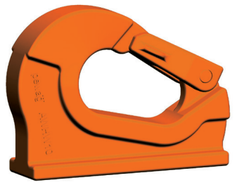
[1)] Please note: Subject to technical changes! Not a stock item

RGS Eyebolt

- High-strength RGS eyebolt for lifting machine parts
- Suitable for manual tightening only
- Not suitable for diagonal pull
- Ensure load capacities are within permitted directions of pull
- Non-permitted usage includes:
- Obstructed direction of pull
- Direction of pull outside the indicated area
- During assembly, prevent improper loading due to these factors.

Code	Thread [mm]	WLL [kg]
RGS 8	M8	400
RGS 10	M10	700
RGS 12	M12	1.000
RGS 14	M14	1.200
RGS 16	M16	1.500
RGS 20	M20	2.500
RGS 24	M24	4.000
RGS 30	M30	6.000
RGS 36	M36	8.000
RGS 42	M42	10.000
RGS 48	M48	18.000

AWHW Weld-on hook



- Designed for welding onto excavator buckets, spreader beams, etc.
- Features a die-forged and tempered safety catch for extra strength
- Safety catch locks into the tip of the hook, providing protection against lateral shifting
- Manufactured according to EN 1677-1 with a higher working load limit
- Includes full operating and welding instructions
- CE marking for compliance with safety standards
- Easy and quick replacement of the SFGW-A safety catch set without special tools
- Optional features: peTAG (NFC chip) or PIP (color marking) available.

Code	WLL [kg]
AWHW 1,3	1.300-
AWHW 3,8	3.800-
AWHW 6,3	6.300-
AWHW 10	10.000-

pewag Welding points and hooks

PLEW eta

- Grade 100 lifting point approved for both OVERHEAD lifting and lashing
- Can be loaded in any direction
- Unique saddle design, with sling angle indicator grooves at 45° and 60°, insures proper alignment, reduces installation time & labor
- Patented integrated spring ensures the ring will remain at any required angle for one hand rigging
- Traceable with serial number

Code	WLL [kg]
PLEW 1,5 t	1.500
PLEW 2,5 t	2.500
PLEW 4 t	4.000
PLEW 6,7 t	6.700
PLEW 10 t	10.000
PLEW 19 t [1)]	19.000

[1)] Spring serves only as an aid during the weldingprocess. With this type, the spring does not hold the ring in every position.

PLE/N eta

- Grade 80 lifting point approved for both OVERHEAD lifting and lashing
- Can be loaded in any direction
- Patented spring positions load ring at any required angle for one hand rigging
- Unique saddle

Code	WLL [kg]
PLE/N 6	1.120
PLE/N 8	2.000
PLE/N 10	3.150
PLE/N 13	5.300
PLE/N 16	8.000
PLE/N 22	15.000

pewag Welding points and hooks

PLGWI Gamma inox

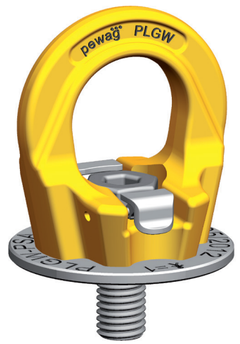
- Stainless version - available special order, size M12, M16, and M20
- Lifting point must be mounted hand tight using a standard Allen key (available as basic version only) then aligned in the load direction
- Eyebolt is 360° rotatable
- Temperature range: up to 536°F (280°C)
- Special screw that is 100% crack-tested and marked with the load capacity and the thread size
- Markings for 45° and 60° tilt angle
- Extremely corrosion-resistant Duplex Stainless Steel (1.4462)

Code	Thread [mm]	WLL [kg]
PLGWI 0,5 t	M12	500
PLGWI 1 t	M16	1.000
PLGWI 2 t*	M20	2.000

* Differs from picture shown

pewag Anchorage points - fall protection

PLGW-PSA Fall protection



- Designed and certified as per the high safety requirements for personal protective equipment according to the EG-Regulations 89/686/EWG; and meets the new EN795:2012 (1 person) and CEN/TS 16415 (2 persons) norms respectively.
- Also available in “Basic” version which is intended for permanent assembly to the anchorage system (e.g. tripod) and is mounted using a commercial Allen key.

Code	Persons
PLGW PSA M12	1
PLGW PSA M16	2
PLGW PSA M20	2

pewag Stainless anchorage points - fall protection

PLGWI-PSA Fall protection

- PLGWI-PSA is the version made of stainless material (INOX)
- Designed and certified as per the high safety requirements for personal protective equipment according to the EG-Regulations 89/686/EWG; and meets the new EN795:2012 (1 person) and CEN/TS 16415 (2 persons) norms respectively.
- PLGWI-PSA can either be mounted using a pewag PLGW special or a commercial Allen key

Code	Persons
PLGWI PSA M12	1
PLGWI PSA M16	2

pewag Comparison between pewag lifting points / Icons

Icon		PLAW alpha	PLBW beta	PLGW gamma	PLDW delta	PLZW zeta	AOR lashing point
peTAG chip	Optionally available with pewag peTAG NFC chip	✓	✓	✓	✓	✓	○
Spare parts	Spare parts are available	✓	✓	✓	○	✓	○
SL/MAXL	Maximum and special length	✓	✓	✓	✓	✓	○
metric	Available with a metric thread	✓	✓	✓	✓	✓	✓
UNC	Available with an UNC thread	✓	✓	✓	✓	○	○
PIP	Optional with PIP identification plug / colour marking	✓	✓	✓	✓	✓	○
YY/XXXX serial number	Comes with an individual serial number	✓	✓	✓	✓	✓	○
	Anti-corrosion coating	✓	✓	✓	✓	✓	✓
EU	Developed and manufactured in Europe	✓	✓	✓	✓	✓	○
PLGIS	May be used with a PLGIS Allen key	○	○	✓	○	○	○
	Crack-tested screw	✓	✓	✓	✓	✓	○
4:1	Safety factor 4:1	✓	○	✓	✓	✓	○
5:1	Safety factor 5:1	○	✓	○	○	✓	○

RGS eyebolt	PLGWI Gamma inox	AWHW weld-on hook	PLEW eta	PLE/N eta	PLGW-PSA fall protection	PLGWI-PSA fall protection
○	✓	○	✓	○	✓	✓
○	✓	✓	○	○	✓	✓
○	○	○	○	○	✓	✓
✓	✓	○	○	○	✓	✓
○	○	○	○	○	○	○
○	✓	○	✓	○	✓	✓
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✓	✓	✓	✓	✓	✓	✓
○	○	✓	✓	✓	✓	✓
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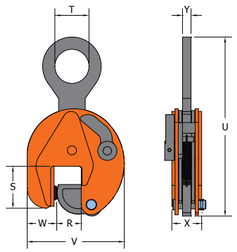
○	✓	○	○	○	✓	✓
✓	✓	✓	✓	✓	○	○
○	○	○	○	○	○	○

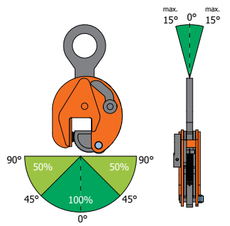
pewag Comparison between pewag lifting points / Icons

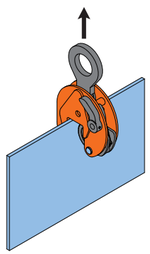
Icon		 PLAW alpha	 PLBW beta	 PLGW gamma	 PLDW delta	 PLZW zeta	 AOR lashing point
NM	Torque marking	✓	✓	✓	✓	✓	○
coloring	Special colours available upon request	✓	✓	✓	✓	✓	○
3D	3D CAD Drawings available	✓	✓	✓	✓	✓	✓
INOX	Products made from stainless steel / rust resistant	○	○	○	○	○	○
PPE	Personal protection equipment	○	○	○	○	○	○
	Ring adjustable in any position (spring function)	✓	✓	○	○	✓ Optional	○
	Screw is exchangeable	✓	✓	✓	○	✓	○
PAT	Patented	✓	✓	✓	○	✓	○
24h	Customised and maximal length manufactured within 24h	✓	✓	✓	✓	✓	○
	Online training available via pewag academy	✓	✓	✓	✓	✓	○
	Ring may be removed without tools	○	○	○	○	✓	○
360°	360° rotatable	✓	✓	✓	✓	✓	○
360° under load	Rotatable under load	○	○	○	✓	○	○
toolfree	Tool-free assembly possible	○	○	✓	○	○	○

 RGS eyebolt	 PLGWI Gamma inox	 AWHW weld-on hook	 PLEW eta	 PLE/N eta	 PLGW-PSA fall protection	 PLGWI-PSA fall protection
○	○	○	○	○	○	○
○	✓	○	✓	✓	○	○
○	✓	✓	✓	✓	✓	✓
○	✓	○	○	○	○	✓
○	○	○	○	○	✓	✓
○	○	○	✓	✓	○	○
○	○	○	✓	○	✓	○
○	✓	○	○	○	✓	✓
✓	○	○	✓	✓	✓	✓
○	○	○	○	○	○	○
○	✓	○	○	○	✓	✓
○	○	○	○	○	○	○
✓	○	○	○	○	○	○

pewag peCLAMP VCW/VCEW/SVCW







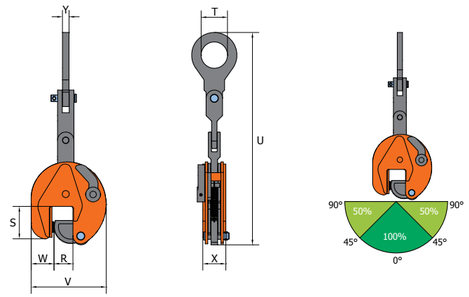
VCW/VCEW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
VCW 0.75 t	750	0-13	47	30	202	100	37	37	10	1.70
VCEW 1 t	1,000	0-25	56	45	263	141	37	47	15	3.50
VCEW 2 t	2,000	0-35	78	64	336	183	56	56	16	7.00
VCEW 3 t	3,000	0-35	78	64	336	183	56	56	16	7.00
VCW 4.5 t	4,500	0-25	85	70	423	203	60	77	20	15.00
VCEW 4.5 t	4,500	0-45	85	70	425	228	60	78	20	16.00
VCW 6 t	6,000	0-32	114	75	490	225	78	78	20	19.00
VCEW 6 t	6,000	0-50	114	75	490	259	82	78	20	21.00
VCW 7.5 t	7,500	0-40	111	75	530	246	76	82	20	24.00
VCEW 7.5 t	7,500	0-55	111	75	522	267	70	86	20	26.00
VCW 9 t	9,000	0-55	111	75	522	267	70	86	20	27.00
VCW 12 t	12,000	0-52	148	85	617	295	100	94	44	37.00
VCW 15 t	15,000	0-76	209	86	810	373	136	106	49	70.00
VCW 17 t	17,000	0-76	209	86	810	373	136	106	49	71.50
VCW 20 t	20,000	0-80	250	100	933	563	153	140	66	149.00
VCW 25 t	25,000	5-85	250	100	925	563	148	140	66	149.00
VCW 30 t	30,000	10-90	250	100	918	568	153	142	66	155.50

SVCW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
SVCW 6 t	6,000	40-90	114	75	486	275	70	78	20	21.00
SVCW 7.5 t	7,500	50-100	111	75	524	312	70	86	20	26.50
SVCW 9 t	9,000	50-100	111	75	522	312	70	86	20	27.50
SVCW 12 t	12,000	50-100	152	85	615	344	100	94	44	41.00
SVCW 15 t	15,000	80-150	224	86	800	450	136	106	49	76.00
SVCW 20 t	20,000	80-150	249	100	924	640	153	140	66	160.00
SVCW 25 t	25,000	80-150	249	100	924	640	153	140	66	160.00
SVCW 30 t	30,000	80-150	249	100	906	645	156	142	66	165.50

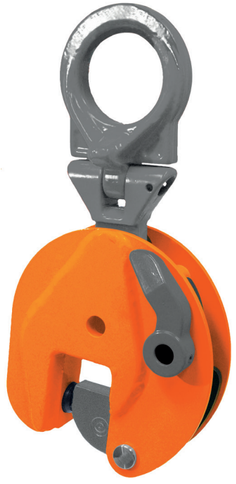
pewag peCLAMP VMPW/VEMPW/SVMPW

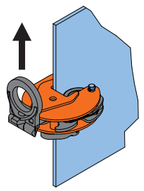
VMPW/VEMPW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
VMPW 0.75 t	750	0-13	47	30	307	100	37	37	10	2.00
VEMPW 1 t	1,000	0-25	56	45	403	141	37	47	15	4.50
VEMPW 2 t	2,000	0-35	78	64	516	183	56	56	16	8.00
VEMPW 3 t	3,000	0-35	78	64	516	183	56	56	16	8.00
VMPW 4.5 t	4,500	0-25	85	70	648	203	60	77	20	17.80
VEMPW 4.5 t	4,500	0-45	85	70	650	228	60	78	20	19.00
VMPW 6 t	6,000	0-32	114	75	760	225	78	78	20	24.00
VEMPW 6 t	6,000	0-50	114	75	760	259	82	78	20	25.50
VMPW 7.5 t	7,500	0-40	111	75	800	246	76	82	20	29.00
VEMPW 7.5 t	7,500	0-55	111	75	792	267	70	86	20	30.50
VMPW 9 t	9,000	0-55	111	75	792	267	70	86	20	31.00

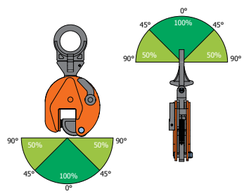
SVMPW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
SVMPW 6 t	6,000	40-90	114	75	756	275	70	78	20	26.00
SVMPW 7.5 t	7,500	50-100	111	75	695	312	70	86	20	31.50
SVMPW 9 t	9,000	50-100	111	75	792	312	70	86	20	32.50



pewag peCLAMP VUW/VEUW/SVUW





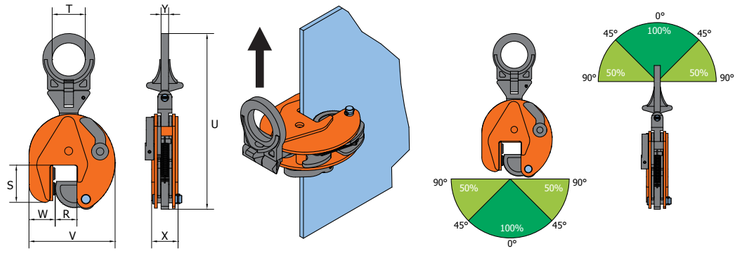


VUW/VEUW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
VUW 0.75 t	750	0-13	47	30	203	100	37	37	10	1.80
VEUW 1 t	1,000	0-25	56	50	292	141	37	47	15	3.80
VEUW 2 t	2,000	0-35	78	70	372	183	56	56	16	8.00
VEUW 3 t	3,000	0-35	78	70	372	183	56	56	16	8.00
VUW 4.5 t	4,500	0-25	85	70	429	203	60	77	20	16.00
VEUW 4.5 t	4,500	0-45	85	70	431	228	60	78	20	16.50
VUW 6 t	6,000	0-32	114	78	528	225	78	78	32	22.00
VEUW 6 t	6,000	0-50	114	78	527	259	82	78	32	24.00
VUW 7.5 t	7,500	0-40	111	78	567	246	76	82	32	27.00
VEUW 7.5 t	7,500	0-55	111	78	560	267	70	86	32	28.00
VUW 9 t	9,000	0-55	111	78	560	267	70	86	32	29.00
VUW 12 t	12,000	0-52	148	85	648	295	100	94	48	41.00
VUW 15 t	15,000	0-76	209	85	816	373	136	106	48	73.00
VUW 17 t	17,000	0-76	209	85	816	373	136	106	48	74.00
VUW 20 t	20,000	0-80	250	100	948	563	153	140	71	160.00
VUW 25 t	25,000	5-85	250	100	948	563	148	140	71	160.00
VUW 30 t	30,000	10-90	250	100	944	568	153	142	71	167.00

SVUW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
SVUW 6 t	6,000	40-90	114	78	523	275	70	78	32	24.00
SVUW 7.5 t	7,500	50-100	111	78	560	312	70	86	32	30.00
SVUW 9 t	9,000	50-100	111	78	560	312	70	86	32	31.00
SVUW 12 t	12,000	50-100	152	85	644	344	100	94	48	45.00
SVUW 15 t	15,000	80-150	224	85	808	450	136	106	48	78.00
SVUW 20 t	20,000	80-150	249	100	940	640	153	140	71	171.00
SVUW 25 t	25,000	80-150	249	100	940	640	153	140	71	171.00
SVUW 30 t	30,000	80-150	249	100	946	645	156	142	71	176.50

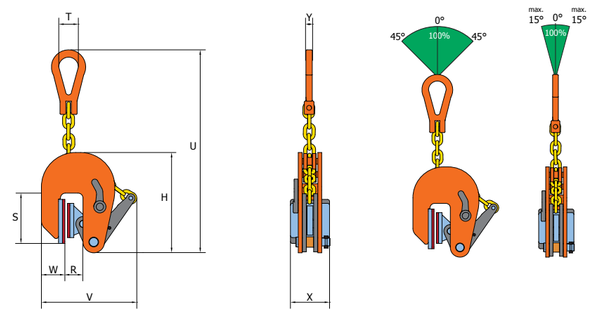
pewag peCLAMP VHPUW

Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
VHPUW 3 t	3,000	0-35	93	70	369	182	58	54	16	8.00
VHPUW 5 t	5,000	0-45	110	70	434	228	58	86	20	17.30



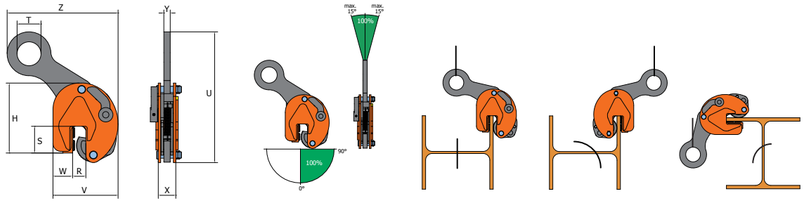
pewag peCLAMP VNMW/VSNMW

Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
VNMW 0.5 t	500	1-20	205	102	40	462	224	48	80	14	6.00
VSNMW 0.5 t	500	17-37	205	102	40	462	241	48	80	14	6.00
VNMW 1 t	1,000	1-30	232	105	40	470	282	46	80	14	6.50
VNMW 1.5 t	1,500	1-40	232	105	40	470	282	46	80	14	6.50
VNMW 2 t	2,000	1-50	362	124	50	704	408	63	80	18	15.00
VNMW 3 t	3,000	1-60	362	124	50	704	408	63	80	18	15.50

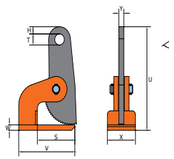


pewag peCLAMP BKW

Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	Z [mm]	weight [kg/pc.]
BKW 1 t	1,000	0-15	154	45	35	225	136	43	47	15	200	3.00
BKW 1.5 t	1,500	0-20	210	67	60	374	170	56	56	16	312	7.00
BKW 3 t	3,000	0-25	252	66	70	410	208	58	77	20	380	15.00



pewag HXW/HSXW

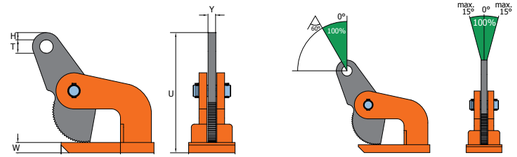


HXW											
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
HXW 1 t	1,000	0-35	11.50	99	25	188	140	10	65	15	2.60
HXW 2 t	2,000	0-60	19.50	118	30.50	287	180	15	90	16	7.00
HXW 3 t	3,000	0-60	19.50	118	30.50	291	180	20	90	16	8.00
HXW 4 t	4,000	0-60	19.50	145	30.50	304	220	25	105	20	13.00
HXW 6 t	6,000	0-60	19.50	145	30.50	307	220	25	110	20	14.00
HXW 8 t	8,000	0-60	19.50	135	30.50	336	225	35	120	30	19.00
HXW 10 t	10,000	0-60	19.50	135	30.50	336	225	35	120	30	19.00
HXW 12 t	12,000	0-60	19.50	135	30.50	336	225	35	120	30	19.00
HXW 15 t	15,000	0-60	21.50	147	43	344	262	35	160	35	30.00
HXW 25 t	25,000	0-60	21.50	147	43	349	262	40	175	35	33.00

HSXW											
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
HSXW 2 t	2,000	0-100	19.50	120	30.50	383	180	15	90	15	9.20
HSXW 3 t	3,000	0-100	19.50	120	30.50	387	180	20	90	15	10.00
HSXW 4 t	4,000	0-100	19.50	145	30.50	414	220	25	105	20	15.00
HSXW 6 t	6,000	0-100	19.50	145	30.50	414	220	25	120	20	16.50
HSXW 8 t	8,000	0-100	19.50	135	30.50	428	225	35	120	30	21.00
HSXW 10 t	10,000	0-100	19.50	135	30.50	428	225	35	120	30	22.00
HSXW 12 t	12,000	0-100	19.50	135	30.50	428	225	35	120	30	22.00
HSXW 15 t	15,000	0-150	27.50	240	45	665	350	35	140	35	53.00

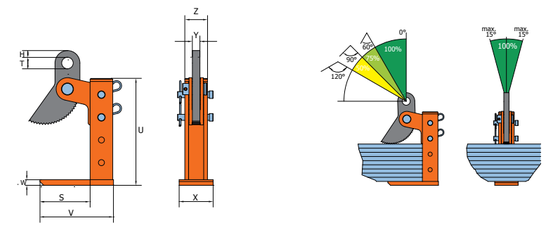
pewag peCLAMP DHW

Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
DHW 1 t	1,000	0-15	13.50	99	22.50	167	140	10	65	15	2.50
DHW 2 t	2,000	0-35	14	114	26	233	180	20	80	15	8.00
DHW 4 t	4,000	0-50	25	129	40	304	235	30	130	20	18.00
DHW 6 t	6,000	0-50	25	129	40	304	235	30	130	20	18.00

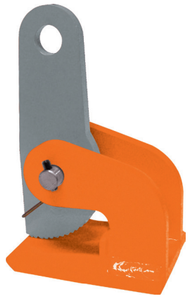


pewag peCLAMP HSKW

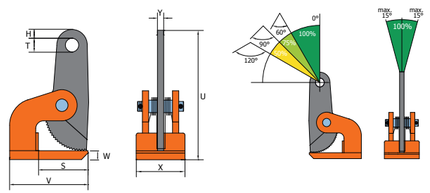
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	Z [mm]	weight [kg/pc.]
HSKW/180 1.5 t	1,500	3-180	18	135	30.50	289	201	15	90	20	60	9.50
HSKW/180 3 t	3,000	3-180	18	165	30.50	296	241	20	105	20	69	13.00
HSKW/180 4.5 t	4,500	3-180	18	165	30.50	296	241	20	105	20	69	13.00
HSKW/180 6 t	6,000	3-180	18	160	30.50	304	256	25	120	20	75	18.00
HSKW/180 9 t	9,000	3-180	18	160	30.50	304	256	25	120	20	75	18.00
HSKW/300 1.5 t	1,500	3-300	18	135	30.50	409	201	15	90	20	60	11.00
HSKW/300 3 t	3,000	3-300	18	165	30.50	416	241	20	105	20	69	15.00
HSKW/420 4.5 t	4,500	3-420	18	165	30.50	536	241	20	105	20	69	17.00
HSKW/420 6 t	6,000	3-420	18	160	30.50	544	256	25	120	20	75	24.00
HSKW/420 9 t	9,000	3-420	18	160	30.50	544	256	25	120	20	75	24.00



pewag HXW-V

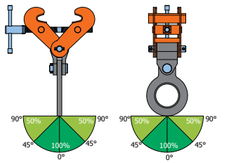


Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
HXW-V 1 t	1,000	0-35	12	99	26.50	188	140	10	85	15	3.00
HXW-V 2 t	2,000	0-60	19	114	30.50	286	180	15	125	16	8.00
HXW-V 3 t	3,000	0-60	19	125	30.50	302	200	20	140	20	12.20
HXW-V 4 t	4,000	0-60	19	139	30.50	316	220	30	165	20	17.00
HXW-V 6 t	6,000	0-60	19	139	30.50	316	220	30	165	20	17.00

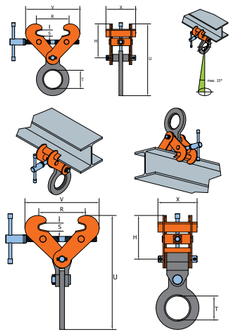


pewag SVW/SVSW/SVSUW

SVW									
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	X [mm]	weight [kg/pc.]
SVW 1 t	1,000	75-190	113-192	30	73.50	345	357	120	5.00
SVW 2 t	2,000	75-190	113-192	30	73.50	345	357	120	5.00
SVW 3 t	3,000	75-190	113-192	30	73.50	345	357	120	5.00
SVW 4 t	4,000	150-300	185-240	40	80	422	450	180	15.00
SVW 5 t	5,000	150-300	185-240	40	80	422	450	180	15.00
SVW 10 t	10,000	350-450	400-447	95	88	653	695	200	50.00

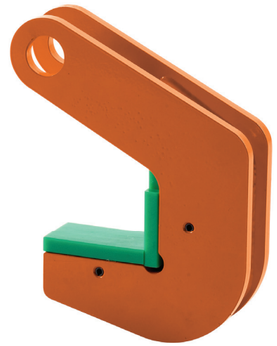


SVSW									
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	X [mm]	weight [kg/pc.]
SVSW 2 t	2,000	75-420	114-275	30	73.50	428	540	120	7.00
SVSW 3 t	3,000	75-420	114-275	30	73.50	428	540	120	7.00
SVSW 4 t	4,000	150-560	173-362	40	80	545	708	180	18.00
SVSW 5 t	5,000	150-560	173-362	40	80	545	708	180	19.50



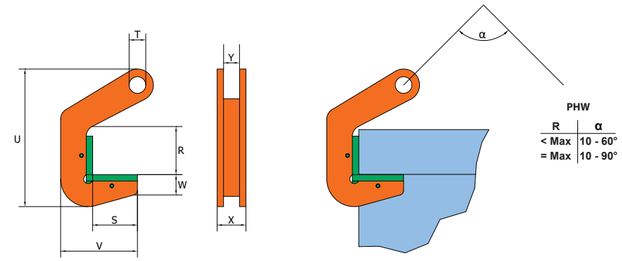
SVSUW									
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	X [mm]	weight [kg/pc.]
SVSUW 3 t	3,000	75-420	114-275	30	73.50	486	540	120	8.00
SVSUW 4 t	4,000	150-560	173-362	40	80	613	708	180	21.00
SVSUW 5 t	5,000	150-560	173-362	40	80	622	708	180	22.00

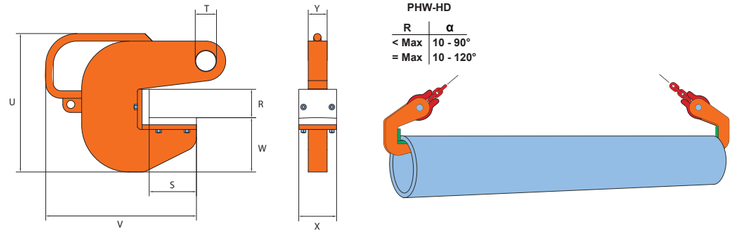
pewag peCLAMP PHW



PHW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
PHW 1,5 t	1.500	40	70	16	185	120	50	41	25	2,00
PHW 3 t	3.000	40	70	16	185	120	50	41	25	2,00
PHW 4 t	4.000	50	70	26	204	140	58	41	25	3,00
PHW 6 t	6.000	50	70	26	204	140	58	41	25	3,00
PHW 8 t	8.000	70	70	26	224	140	58	45	25	3,71
PHW 10 t	10.000	70	70	26	224	140	58	85	45	7,00
PHW 12 t	12.000	70	70	26	224	140	58	85	45	7,00
PHW 15 t	15.000	70	70	26	250	155	76	100	60	9,00
PHW 20 t	20.000	70	70	26	250	155	76	100	60	9,00

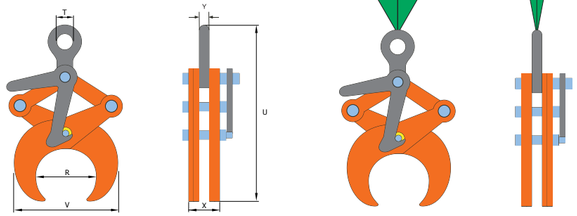
PHW-HD										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
PHW-HD 5 t	5.000	60	100	26	232	309	85	80	20	6,70
PHW-HD 10 t	10.000	60	100	36	236	319	85	80	30	9,70
PHW-HD 20 t	20.000	60	100	51	285	362	105	80	35	14,00
PHW-HD 30 t	30.000	60	100	58	310	387	115	80	40	19,00
PHW-HD 60 t	60.000	60	100	85	350	418	115	80	60	35,00





pewag peCLAMP TLW

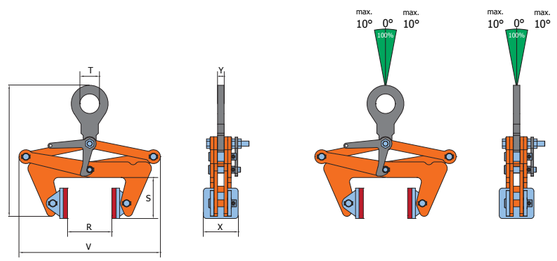
Code / Type	WLL [kg]	JO R [mm]	H [mm]	U min-max [mm]	V min-max [mm]	X [mm]	Y [mm]	weight [kg/pc.]
TLW 0.5 t	500	48,3-114,3	45	300-400	146-207	47	15	4.50
TLW 1 t	1,000	114,3-219,1	47	430-615	225-320	47	15	9.00
TLW 2 t	2,000	219,1-368,0	64	670-955	490-610	56	16	31.00
TLW 3 t	3,000	368,0-508,0	64	875-1165	590-710	56	16	39.00



pewag peCLAMP BLCW

Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U min-max [mm]	V min-max [mm]	X [mm]	Y [mm]	weight [kg/pc.]
BLCW 0.5 t	500	30-110	95	45	305-460	270-325	80 (*70)	15	7.00
BLCW 1 t	1,000	100-230	120	45	380-655	425-530	80 (*70)	15	12.30
BLCW 2 t	2,000	220-360	140	45	410-735	580-675	80 (*70)	15	18.00
BLCW 3 t	3,000	350-500	178	64	530-900	725-835	100 (*90)	16	33.00

Attention: Measure “X” is different for the left and right clamping jaw. Please note this for the order of spare parts.



pewag levo hook LH

Manual process steps such as attaching and releasing hooks require a great deal of time and resources. Automation is a way round it – and that‘s where pewag comes in.

The pewag levo hook LH is the all-in-one solution for efficient work processes, safe working methods and satisfied employees. The use of our TÜV-certified levo hook reduces the throughput time of a work cycle while increasing the safety for the user and the load at the same time.

100 % safe (ISO 13849)

Accidental opening of the levo hook under load is not possible, secured communication between hook and remote control, Safety factor against break: 4:1

Top pewag quality

Patented tool-free locking of the rotation lock, tool-free initital mounting, TÜV-certified, pewag know-how

Complete range of services (on-the-job training)

e-learning trainings, pewag expert support during initial operation, repair

Cost and time savings thanks to speedy work processes

Up to 8,000 operating cycles without a break, hook opens and closes within 2.5 seconds

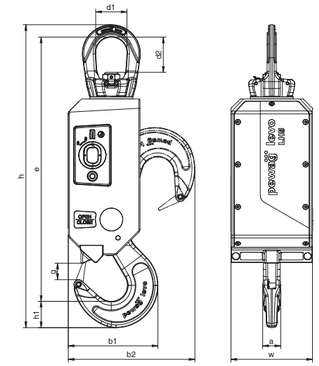
Safety meets performance.

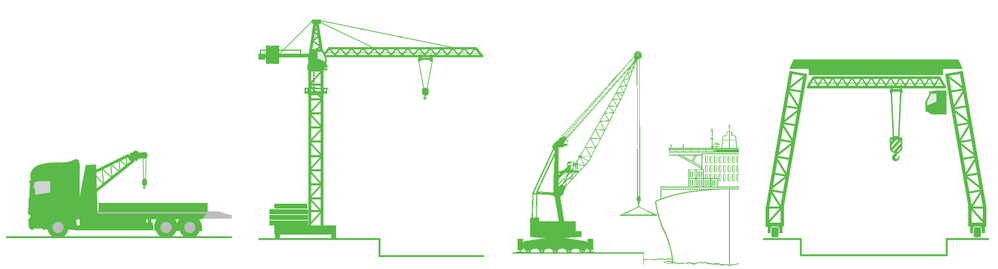
Automated unloading with the pewag levo hook LH eliminates time-intensive manual workflows, which can be performed faster and with optimised use of resources. In addition, the pewag levo hook LH stands for the highest level of health and safety as well as user protection.

The pewag levo hook LH effectively minimises the hazards that users are normally exposed to in a straightforward, safe and automated manner.

The pewag levo hook LH

- provides support when working at height or in deep construction pits.
- withstands temperatures that put a strain on the user (-20°C to +60°C / -4°F to +140°F).
- is a safe partner when it comes to hazards that may be detected too late (e.g. odourless gases in cesspits).
- allows for the targeted use of human resources (crane operator is able to attach and release the load independently).





pewag levo hook LH

The pewag levo hook LH stands for a new generation of lifting devices. Thanks to its powerful features, the process of releasing loads is automated. It is supporting operators in difficult working conditions, for instance when working at height or in hazardous conditions.

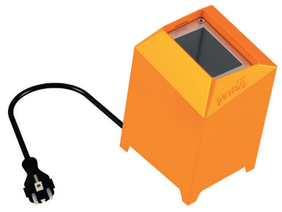
In a professional context, operator safety should be the top priority at all times. The pewag levo hook LH makes this a reality: Operated by radio control, the rotatable lifting hook gets perfect grip straightaway and releases the load without manual assistance.

Basic configuration.

pewag levo hook LH 5 tons

equipped with battery, temperature sensor and data logger, peTAG (for clear product identification) and operating manual

Easy-to-use remote control unit

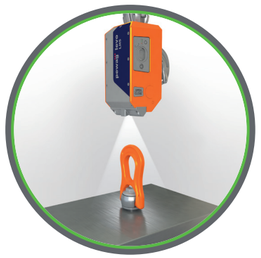


Charging station

Code	WLL [kg]	e [mm]	a [mm]	b1 [mm]	b2 [mm]	d1 [mm]	d2 [mm]	g [mm]	h [mm]	h1 [mm]	w [mm]	Weight approx. [kg/pc.]
LH 5	5,000	460	32	156	220	54	61	29	528	46	142	20.00

Optional add-ons

- **Workspace lighting**
  Optimised visibility of the work area
- **pewag levo manager**
  Servicing
  Data evaluation for all lifting processes
- **Multiloading Adapter**
  Charges up to 10 batteries at one time



pewag levo clamp LC

Manual process steps such as attaching and releasing hooks require a great deal of time and resources. This is where automation comes in handy, and with the pewag levo clamp LC, pewag has developed a truly innovative product.

The pewag levo clamp LC is a vertical lifting clamp that was specially developed for simplifying standardised lifting processes and making them safer.

100 % safe

Protection against unintentional opening, secure communication between the clamp and the remote (ISO 13849), safety factor of 4:1

Outstanding pewag quality

Tool-free installation, TÜV-certified, tried-and tested pewag expertise

Full range of services (on-the-job training)

e-learning, support during first use, repair

Cost and time savings thanks to speedy work processes

Up to 2,000 work cycles without interruption, opening/closing within 2 seconds

Spotlight on safety.

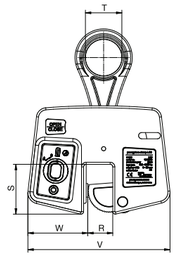
Automation and user safety play an increasingly important role in today's work market. Processes such as the lifting of steel plates and steel constructions are a potential hazard for persons and material.

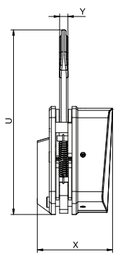
To ensure safety during lifting operations, a premium tool is required that is easy to operate and safe to handle. The pewag levo clamp LC was developed specifically for this challenge and makes it possible to lift loads manually, using a remote control unit.

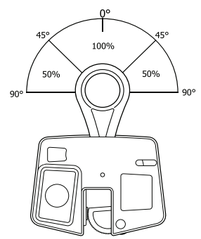
The pewag levo clamp LC

- provides support when working at heights or in areas that are difficult to access.
- withstands temperatures that put a strain on the user (-20°C to 60°C).
- enables the targeted use of personnel resources. (crane of lifting equipment operator may lift and release load independently)
- is suitable for lifting and transporting steel plates with a maximum hardness of 37 HRC (345 HB).
- has an admissible minimum weight of 10% of the maximum weight.

Code	WLL [kg]	Jaw-width R [mm]	T [mm]	S [mm]	W [mm]	V [mm]	U [mm]	Y [mm]	X [mm]	Weight approx. [kg/pc.]
LC 3	3,000	0-35	70	96	115	273	356	16	145	19.00







pewag levo clamp LC

The pewag levo clamp LC is a world first and heralds a new generation of lifting devices.

Operator and material safety is our top priority at all times. The pewag levo clamp LC allows the lifting and lowering of steel plates and constructions from a safe distance, using a remote control. This takes pressure off the operator in particular in difficult working conditions, for instance when working at heights or in hazardous areas.

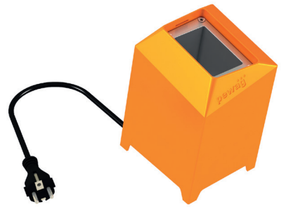
Thanks to our special user software (pewag levo manager), also developed by pewag, it is now also possible to configure the pewag levo clamp LC and to evaluate **statistical data** relating to lifting operations.

Basic configuration.

pewag levo clamp LC 3 tonnes

Standard version includes battery, temperature sensor and data logger, peTAG for unique product identification and operating manual

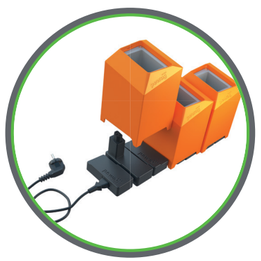
Easy-to-use remote control unit



Charging station

Optional add-ons

- **Workspace lighting**
  Optimised visibility of the work area
- **pewag levo manager**
  Servicing
  Data evaluation for all lifting processes
- **Multiloading Adapter**
  Charges up to 10 batteries at one time



pewag winner profimag PMA lifting magnet

Built with Neodymium magnets and thus compatible with a wide range of metallic materials without the need for electricity.

Load capacities from 150kg/350lbs to 2,000kg/4,400lbs.

Simple and quick to mount to the lifting equipment thanks to permanently mounted master links.

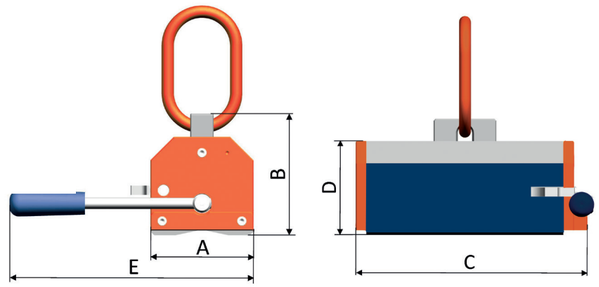
Suitable for flat and round material and as well for temperature ranges from -10°C to +80°C at 80% maximum humidity.

Maximum temperature of the load to be lifted: 60°C.

Surface: orange, anodized and electro galvanized.

Master links: orange, powder-coated.

Manufactured according to EN 12100 T1 and T2, EN 13155, ASME B30.20 and Machinery Directive 2006/42/EC.



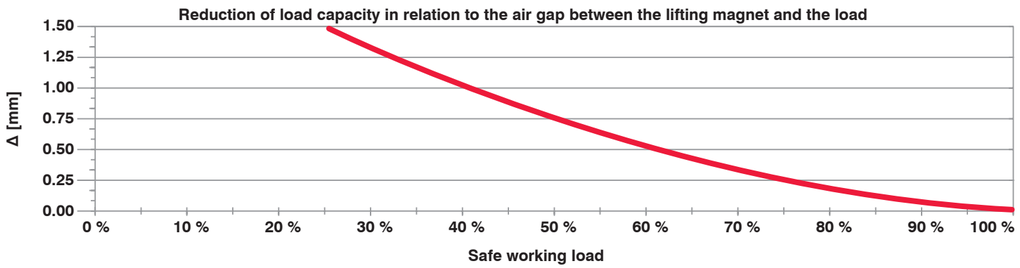
Type	A [mm/in]	B [mm/in]	C [mm/in]	D [mm/in]	E [mm/in]	Master link	Weight [kg/lbs]
PMA 150	85.00 / 3.35	110.00 / 4.33	155.00 / 6.10	85.00 / 3.35	190.00 / 7.48	AW 13: 13x110x60	7.00 / 15.43
PMA 300	85.00 / 3.35	110.00 / 4.33	195.00 / 7.68	85.00 / 3.35	190.00 / 7.48	AW 13: 13x110x60	9.00 / 19.84
PMA 500	110.00 / 4.33	130.00 / 5.12	260.00 / 10.23	105.00 / 4.13	250.00 / 9.48	AW 13: 13x110x60	17.00 / 37.50
PMA 1000	130.00 / 5.12	175.00 / 6.89	320.00 / 12.60	135.00 / 5.31	275.00 / 10.87	AW 13: 13x110x60	40.00 / 88.20
PMA 2000	205.00 / 8.07	230.00 / 9.05	450.00 / 17.72	180.00 / 7.09	510.00 / 20.08	AW 22: 23x160x90	112.00 / 246.90

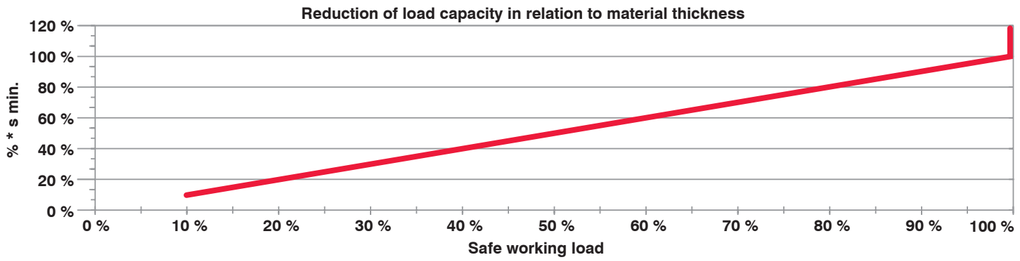
Type	Flat surface			Round surface	
	WLL [kg/lbs]	Min. material thickness [mm/in]	Max. length L [mm/in]	WLL [kg/lbs]	Max. material diameter [mm/in]
PMA 150	150 / 330	20.00 / 0.79	2.000 / 78.74	75 / 150	150.00 / 5.91
PMA 300	300 / 700	20.00 / 0.79	2.500 / 98.43	150 / 350	150.00 / 5.91
PMA 500	500 / 1.100	25.00 / 0.98	3.000 / 118.11	250 / 550	250.00 / 9.84
PMA 1000	1.000 / 2.200	35.00 / 1.38	3.500 / 137.80	500 / 1.100	300.00 / 11.81
PMA 2000	2.000 / 4.400	45.00 / 1.77	3.500 / 137.80	1.000 / 2.200	500.00 / 19.69

pewag Versatile. Innovative

- Built using Neodymium magnets
- No electricity required for use
- Small, compact format
- Built using premium master links from the pewag winner range
- May be used for a wide range of different metals, bearing in mind the reduction factors for working load limits
- Easy to switch on or off by turning the lever by 180°, thus fully leveraging the magnetic effect
- Safety mechanism locks lever in position when the magnet is on, thus preventing the accidental release of the load
- Lever, handle, spring, lock and label are available as spare parts
- 5-year warranty
- Jointed connection between master link and magnet, therefore reduced load during inclined hoisting operations
- Front panels made from aluminium, thus reduced proper weight

Restrictions of use				
Temperature range	From -10°C to +80°C and max. humidity of 80%		Less than -10°C and more than +80°C	
Load factor	1		Not permitted	
Shock loading	Not permitted			
Steel type	Mild steel	Alloy steel	C40 steel	Cast iron
Load factor	1	0.8	0.7	0.45





Shackles

Applications

Shackles are used in lifting operations and static systems as removable links to connect (steel) wire rope, chain and other fittings. Screw pin shackles are used mainly for nonpermanent applications. Safety bolt and fixed nut shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin. Chainor dee shackles are mainly used on one-leg systems whereas anchor- or bow shackles are mainly used on multi-leg systems.

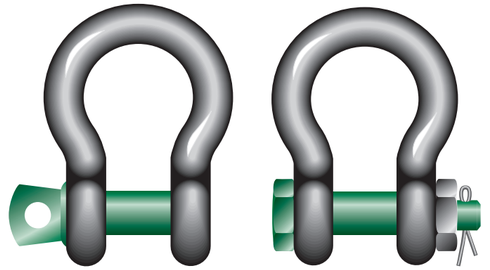
Range

Our supplier, Green Pin® offers a wide range of bow and dee shackles for a variety of applications. The range stretches from WLL 0.33t to 3000t. This provides our customers with a very extensive range to choose a shackle that suits their application best. Most of the shackles are directly available from stock. Furthermore, shackles can be supplied to many standards such as the US Federal Specification RR-C-271, EN 13889, British Standard 3032, DIN 82101 etc. Additionally we offer a wide range of general commercial shackles, which are not suitable for lifting but merely for fixing purposes. Van Beest offers a wide range of other shackles to complement the Green Pin® assortment.

Design

All Green Pin® shackles have a specific design for a specific application. Some examples are:

- Green Pin Super® Shackles which are made out of grade 8 steel. They are designed to be used in confined spaces. The higher material strength is used to reduce the physical dimensions of the product whilst maintaining its WLL and functionality;
- Green Pin Polar® Shackles are for use in extreme climatic conditions with material properties guaranteed up to temperatures of -60°C;
- Green Pin Power Sling® Shackles are designed to provide a better radius to the sling it lifts.
- A bigger radius increases the life span of the sling significantly;
- Another example of a functional design is a shackle pin with a square sunken hole.
  Because of the flat head there is less risk of the shackle getting caught in a net or a line.



These are all examples of highly functional designs, to optimize the use of the Green Pin® shackles in daily use.

Shackles used for lifting applications are generally marked with:

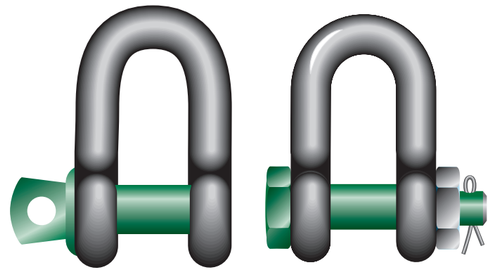
- **Working Load Limit**
  - e.g. WLL 25 T
- **manufacturer's symbol**
  - e.g. GP
- **traceability code**
  - e.g. HA indicating a particular batch
- **steel grade**
  - e.g. 4, 6, 8
- **CE conformity code** (Conformité Européenne)
  - CE

Green Pin® Shackles meet all relevant requirements of the Machinery Directive 2006/42/EC and its latest amendments.

Finish

Shackles supplied by Green Pin® can be hot dipped galvanized, electro-galvanized, painted or self coloured,

depending on the type of shackle and its application. You can find the finish of each type of shackle in the product section further on.



Certification

Upon request at time of order, all load rated shackles can be supplied with any of the following documents or certificates:

Free of Charge:

2.1 | 2.2 | 3.1 | MTC[a] | DNV GL 2.7-1[a] | DNV GL 2.7-1[b] | DNV GL 0377 | DNV GL 0378 | CE | ABS PDA | ABS MA

With additional Charges:

MTC[b] | MPI[b] | US[a] | US[b] | DNV GL CG3 | BL

On request the proof load test certificates can be supplied surveyed by an official classification society, such as LROS, DNV GL, BV, ABS or any other officially certified inspection body. Please verify your certification requirements with Green Pin® at the time of order.

Green Pin® Bow Shackles, Green Pin® Dee Shackles and Green Pin Polar® Shackles are DNV GL type approved.

These shackles carry two DNV GL type approval certificates that show compliance with:

- DNVGL-ST-E271-2.71 Offshore Containers
- EN 12079-2 Offshore containers and associated lifting sets
- EN 13889 Forged steel shackles for general lifting purposes
- IMO/MSC Circular 860
- US Federal Specification RR-C-271
- DNV GL-ST-E273 Portable Offshore Units
- DNV GL Standard No. 0378 Offshore and Platform Lifting Appliances

The certificates TAS000011V and TAS00001H7 confirm that Green Pin® standard shackles and Green Pin Polar® Shackles meet the requirements set in the latest version of the above mentioned DNV GL standards.

The Green Pin Power Sling® Shackles are DNV GL type approved. This DNV GL type approval certificate isin compliance with:

- DNV GL Standard for Certification No. 0377 Standard for Shipboard Lifting Appliances
- DNV GL Standard for Certification No. 0378 Offshore and Platform Lifting Appliances

The TAS000018M certificate confirms that Green Pin Power Sling® Shackles meet the requirements stated in the latest version of the above-mentioned DNV standards.

Green Pin® Shackles G-4161, G-4163, G-4151, G-4153, G-5163, G-5261 and G-5263 are ABS Type Approved.

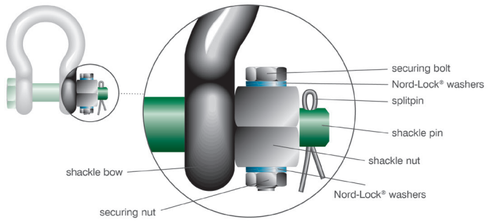
The shackles have a Product Design Assessment Approval and a Manufacturer Assessment Approval Certificate. The shackles are type approved to be used as lifting gear or to be used as lifting device.

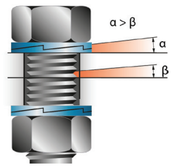
Fixed Nut Shackles

Shackles can also be used in more permanent constructions. These can be subject to dynamic loads and/or extreme vibrations. In such applications there is a risk that, over time, the nut may start to move over the thread. We offer our range of Green Pin® Fixed Nut Shackles to avoid this risk. Green Pin® Standard, Polar® and Super® shackles can be equipped with an extra AISI 316 securing bolt that is drilled through the nut and shackle pin. This securing bolt is fastened with two sets of Nord-Lock® washers and a securing nut. This will keep the shackle nut in position. The Nord-Lock wedge-locking washers lock when subjected to extreme vibration or dynamic loads.

Green Pin®

Fixed Nut Shackle

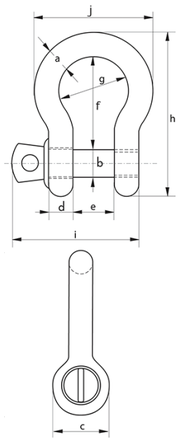




Nord-Lock®

Bow Shackle SC G-4161

Standard bow shackle with screw collar pin

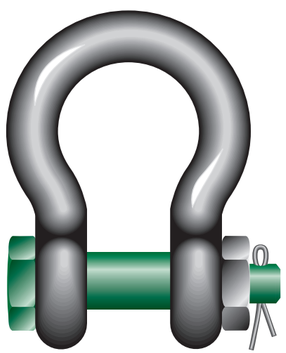


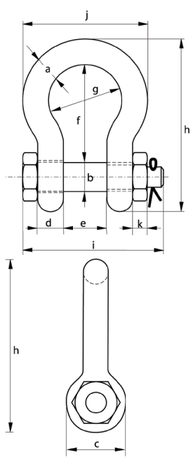
- **Material:**
  bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:**
  MBL equals 6 x WLL
- **Standard:**
  EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:**
  hot dipped galvanized
- **Temperature Range:**
  -40°C up to +200°C
- **Certification:**
  2.1 | 2.2 | 3.1 | MTC[a] | DNV GL 0378 | CE | ABS PDA | ABS MA

WLL	Diameter bow	Diameter pic	Diameter eye	Width eye	Width inside	Length inside	Width bow	Length	Length bolt	Width	Weight each
t	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	i [mm]	j [mm]	kg
0.33	5	6	12	5	9.5	22	16	36	29.5	26	0.02
0.5	7	8	16.5	7	12	29	20	48.5	38	34	0.05
0.75	9	10	20	9	13.5	32	22	56	46.5	40	0.1
1	10	11	22.5	10	17	36.5	26	63.5	54	46	0.14
1.5	11	13	26.5	11	19	43	29	74	59.5	51	0.19
2	13.5	16	34	13	22	51	32	89	73	58	0.36
3.25	16	19	40	16	27	64	43	110	89	75	0.63
4.75	19	22	46	19	31	76	51	129	103	89	1.01
6.5	22	25	52	22	36	83	58	144	119	102	1.5
8.5	25	28	59	25	43	95	68	164	137	118	2.21
9.5	28	32	66	28	47	108	75	185	153	131	3.16
12	32	35	72	32	51	115	83	201	170	147	4.31
13.5	35	38	80	35	57	133	92	227	186	162	5.55
17	38	42	88	38	60	146	99	249	203	175	7.43
25	45	50	103	45	74	178	126	300	243	216	12.84
35	50	57	111	50	83	197	138	331	272	238	18.15
42.5	57	65	130	57	95	222	160	377	310	274	26.29
55	65	70	145	65	105	260	180	433	344	310	37.6

Bow Shackle BN G-4163

Standard bow shackle with safety bolt





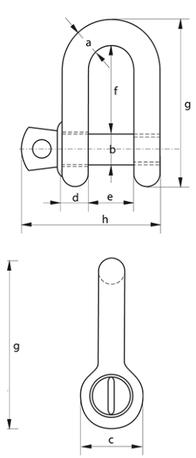
- **Material:**
  bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:**
  MBL equals 6 x WLL
- **Standard:**
  EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:**
  hot dipped galvanized
- **Temperature Range:**
  -40°C up to +200°C
- **Certification:**
  2.1 2.2 3.1 MTC[a] DNV GL 2.7-1[a]* DNV GL 2.7-1[b]* DNV GL 0378 CE ABS PDA ABS MA

* For shackles ≥ WLL 2 t

WLL	Diameter bow	Diameter pic	Diameter eye	Width eye	Width inside	Length inside	Width bow	Length	Length bolt	Width	Thickness nut	Weight each
t	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	i [mm]	j [mm]	k [mm]	kg
0.5	7	8	16.5	7	12	29	20	48.5	42	34	4	0.06
0.75	9	10	20	9	13.5	32	22	56	50	40	5	0.11
1	10	11	22.5	10	17	36.5	26	63.5	60	46	8	0.16
1.5	11	13	26.5	11	19	43	29	74	67	51	11	0.22
2	13.5	16	34	13	22	51	32	89	82	58	13	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	0.74
4.75	19	22	46	19	31	76	51	129	114	89	19	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	2.58
9.5	28	32	66	28	47	108	75	185	166	131	27	3.66
12	32	35	72	32	51	115	83	201	178	147	30	4.91
13.5	35	38	80	35	57	133	92	227	197	162	33	6.54
17	38	42	88	38	60	146	99	249	202	175	19	8.19
25	45	50	103	45	74	178	126	300	249	216	23	14.22
35	50	57	111	50	83	197	138	331	269	238	26	19.53
42.5	57	65	130	57	95	222	160	377	301	274	29	28.33
55	65	70	145	65	105	260	180	433	330	310	32	39.59
85	75	83	162	73	127	329	190	527	380	340	39	62

Dee Shackle SC G-4151

Standard dee shackle with screw collar pin

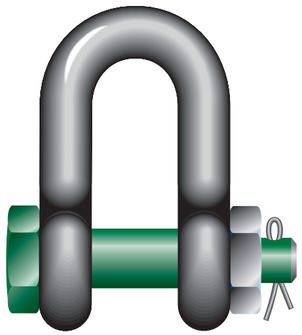


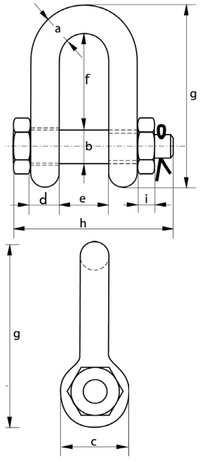
- **Material:**
  bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:**
  MBL equals 6 x WLL
- **Standard:**
  EN13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, grade A, from 2 t upward these shackles comply with ASME B30.26
- **Finish:**
  hot dipped galvanized
- **Temperature Range:**
  -40°C up to +200°C
- **Certification:**
  2.1 2.2 3.1 MTC[a] DNV GL 0378 CE ABS PDA ABS MA

WLL	Diameter bow	Diameter pic	Diameter eye	Width eye	Width inside	Length inside	Length	Length bolt	Weight each
t	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	kg
0.33	5	6	12	5	9.5	19	33	29.5	0.02
0.5	7	8	16.5	7	12	22	41.5	38	0.05
0.75	9	10	20	9	13.5	26	50	46.5	0.09
1	10	11	22.5	10	17	32	59	54	0.14
1.5	11	13	26.5	11	19	37	68	59.5	0.19
2	13.5	16	34	13	22	43	81	73	0.32
3.25	16	19	40	16	27	51	97	89	0.54
4.75	19	22	46	19	31	59	112	103	0.87
6.5	22	25	52	22	36	73	134	119	1.34
8.5	25	28	59	25	43	85	154	137	2.08
9.5	28	32	66	28	47	90	167	153	2.77
12	32	35	72	32	51	94	180	170	3.72
13.5	35	38	80	35	57	115	209	186	5.14
17	38	42	88	38	60	127	230	203	6.85
25	45	50	103	45	74	149	271	243	11.45
35	50	57	111	50	83	171	305	272	16.86
42.5	57	65	130	57	95	190	345	310	24.61
55	65	70	145	65	105	203	376	344	32.65

Dee Shackle BN G-4153

Standard dee shackle with safety bolt



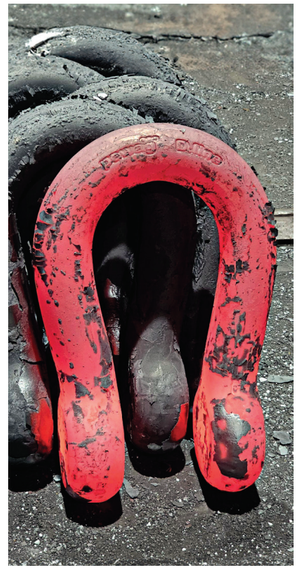


- **Material:**
  bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:**
  MBL equals 6 x WLL
- **Standard:**
  EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, grade A
- **Finish:**
  hot dipped galvanized
- **Temperature Range:**
  -40°C up to +200°C
- **Certification:**
  2.1 | 2.2 | 3.1 | MTC[a] | DNV GL 2.7-1[a]* | DNV GL 2.7-1[b]* | DNV GL 0378 | CE | ABS PDA | ABS MA

* For shackles ≥ WLL 2 t

WLL	Diameter bow	Diameter pic	Diameter eye	Width eye	Width inside	Length inside	Length	Length bolt	Thickness nut	Weight each
t	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	i [mm]	kg
2	13.5	16	34	13	22	43	81	82	13	0.39
3.25	16	19	40	16	27	51	97	98	17	0.67
4.75	19	22	46	19	31	59	112	114	19	1.08
6.5	22	25	52	22	36	73	134	130	22	1.66
8.5	25	28	59	25	43	85	154	150	25	2.46
9.5	28	32	66	28	47	90	167	166	27	3.4
12	32	35	72	32	51	94	180	178	30	4.51
13.5	35	38	80	35	57	115	209	197	33	6.1
17	38	42	88	38	60	127	230	202	19	7.63
25	45	50	103	45	74	149	271	249	23	12.88
35	50	57	111	50	83	171	305	269	26	17.35
42.5	57	65	130	57	95	190	345	301	29	25.94
55	65	70	145	65	105	203	376	330	32	35.33
85	75	83	162	73	127	229	427	380	39	52.97

pewag D.line heavy duty shackles



Heavy duty shackles are used in lifting and static systems as removable links to connect (steel) wire rope & roundslings with lifting goods & fittings.

They‘re also used in a wide range of industries: Offshore and onshore, marine and port, wind energy, oil and gas and more.

The pewag range of shackles includes D.line (P285), D.line Plus (P485) and D.line Star (P685) ranging from 85t to 1500t WLL.

Benefits at a glance:

- Hundreds of years of experience in the production of chains and components.
- Extensive product portfolio.
- Engineered and manufactured in Europe.
- Made in Germany.
- Innovative products made of high-quality material.
- pewag meets all quality standards.
- Lifting solutions for various industries and applications.
- Customised products and solutions.
- 24/7 online product trainings in the pewag academy.
- Customer-focus and extensive service level.
- pewag is a global player with an international network of subsidiaries .
- One-stop manufacturer.

What are the key features of pewag D.line?

- High and consistent quality efficient and reliable product
- A smooth finish reduces the wear on slings, masterlinks and similar equippment
- Type approval by DNV according to standards DNVST-0377, DNV-ST-0378
- Made in Germany

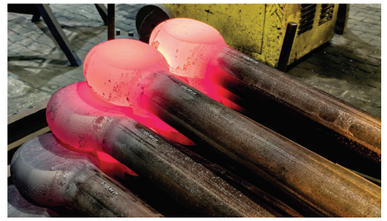
Each shackle is supplied with

- 100% proof load test to 2 x WLL
- 100% UT of raw material
- 3.1 material certificate acc.to EN 10204
- peTAG product identification NFC chip
- EU Declaration of Conformity CE
- pewag PLGW pewag pro anchor point (rotatable and lockable)

By request we can supply following certificates

- DNV product certificate for loose gear (CG3)
- Witnessed proof load test certificate
- 100% MPI and UT test certificate
- Certificate of conformity UKCA

TYPE APPROVED PRODUCT
DNV
DNV.COM/AF



Zero-waste forging process: eyes are upset forged

Shackles and pins CNC machined

Shackles are proof load tested

pewag D.line shackles 85t to 1500t WLL

The safety factor of pewag D.line shackles is fully assessed by FEA and confirmed by physical testing during DNV Type approval process. pewag D.line Heavy Lifting Shackles generally comply or exceed design and testing requirements of ASME B30.26-1 and Federal Specification RR-C-271.

Type	D.line (P285)	D.line Plus (P485)	D.line Star (P685)
Working Load Limit Range (WLL)	85t - 1500t	120t - 175t	85t - 600t
Charpy value at Temperature	27J / -20°C	27J / -20°C	42J / -40°C
Operating Temperature Range	-20°C / +200°C	-20°C / +200°C	-60°C / +200°C

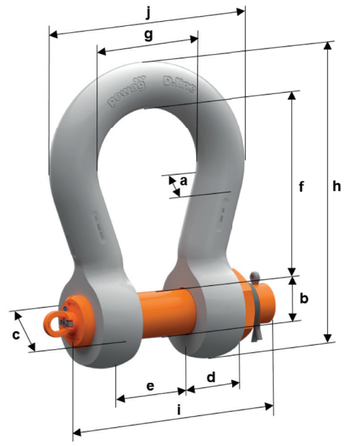
pewag D.line markings

- Markings on body and pin
- Steel grade
- CE and UKCA conformity code
- pewag logo
- Made in Germany - Sticker
- Working Load Limit (WLL)
- Traceability Code

* Shackles with no markings for WLL, brand or traceability are not for lifting applications.

** optional, only on request

pewag D.line shackles 85t to 1500t WLL



Use Cases

pewag D.line (P285) shackles are used for lifting operations up to a weight of 1500 tonnes.

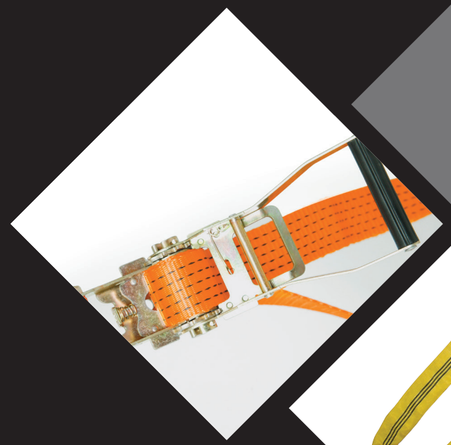
pewag D.line Plus (P485) shackles are made of higher strength material and are well suited for use where higher loads are required with reduced dimensions and weight.

pewag D.line Star (P685) shackles are designed for use in low temperature conditions.

pewag shackles meet all relevant design & quality requirements.

Type		WLL	Diameter bow	Diameter pin	Inside width	Jaw gap	Inside height	Eye diameter	Eye thickness	Pin length	Total height	Total width	Aprox. weight
		t	a [mm]	b (+/- 0,5) [mm]	g [mm]	e (min./ max.) [mm]	f [mm]	c (min./ max.) [mm]	d [mm]	l [mm]	h (max.) [mm]	j (max.) [mm]	kg
D.line P285	D.line Star P685	85	85	83	190	127/133	330	162/177	80	398	574	376	78
		120	95	95	238	144/150	380	200/215	89	438	659	444	115
		150	105	108	275	165/173	385	230/245	100	508	696	503	162
		200	120	125	280	180/188	450	270/288	110	550	807	540	240
		250	130	140	305	205/215	520	290/308	115	590	914	585	306
		300	140	150	305	205/215	530	315/335	120	605	952	605	368
		400	160	175	325	230/240	575	365/387	160	715	1,057	667	602
		500	180	185	350	250/262	650	385/410	160	740	1,168	734	735
		600	200	205	375	275/288	650	430/458	185	828	1,222	800	969
		700	210	215	400	300/315	650	440/468	200	885	1,242	847	1,091
		800	210	220	400	300/315	650	450/478	200	890	1,247	847	1,106
		1,000	240	240	420	340/357	700	500/530	210	955	1,366	928	1,476
		1,250	260	270	450	360/378	750	570/600	225	1,010	1,486	1,000	1,955
		1,500	280	290	450	360/378	800	610/640	225	1,010	1,586	1,040	2,327
D.line Plus P485		120	85	83	190	127/133	330	162/177	80	398	574	376	78
		150	95	95	238	144/150	380	200/215	89	438	659	444	115
		175	105	108	275	165/173	385	230/245	100	508	696	503	162

PL = 2 x WLL exceeding the class requirements. All dimensions in mm



3

PROLIFT
HANDLING LTD

Polyester Lifting and Lashing Products

- Web and Round Slings
- Ratchet Straps

pewag Round slings RS

Working load limit table (kg) according to the type of sling:									
Type	Colour coding	Endless sling	Choke hitch				Asymmetrie	Stock length / effective working length [m]	Weight per circumferential length approx. [kg/m]
		100%	80%	200%	140%	100%	100%		
RS 1	purple	1,000	800	2,000	1,400	1,000	1,000	0.50/1/1.50/2/2.50/3/4/5/6	0.14
RS 2	green	2,000	1,600	4,000	2,800	2,000	2,000	0.50/1/1.50/2/2.50/3/4/5/6	0.23
RS 3	yellow	3,000	2,400	6,000	4,200	3,000	3,000	1/1.50/2/2.50/3/4/5/6	0.31
RS 4	grey	4,000	3,200	8,000	5,600	4,000	4,000	1/1.50/2/2.50/3/4/5/6	0.41
RS 6	brown	6,000	4,800	12,000	8,400	6,000	6,000	1/1.50/2/2.50/3/4/5/6	0.60
RS 8	blue	8,000	6,400	16,000	11,200	8,000	8,000	1/1.50/2/2.50/3/4/5/6/8/10	0.75
RS 10	orange	10,000	8,000	20,000	14,000	10,000	10,000	2/3/4/5/6	0.95
RS 12	orange	12,000	9,600	24,000	16,800	12,000	12,000	available in all effective working lengths up to 15m	1.32
RS 15	orange	15,000	12,000	30,000	21,000	15,000	15,000	available in all effective working lengths up to 15m	1.50
RS 20	orange	20,000	16,000	40,000	28,000	20,000	20,000	available in all effective working lengths up to 15m	2.00
RS 25	orange	25,000	20,000	50,000	35,000	25,000	25,000	available in all effective working lengths up to 15m	2.68

Order example: Polyester round sling type RS 1 with an effective working length (L1) of 3,000 mm (circumferential length = 6,000 mm), according to EN 1492-2, working load limit in endless slings 1,000 kg.
Order text: Round sling RS 1 x 3,000

Larger sizes are available on request

pewag Round slings RS PRO

- With robust protective sleeve
- Significantly longer lifespan thanks to optimised wear and abrasion resistance
- Load capacity is woven into the material

Working load limit table (kg) according to the type of sling:								
Type	Colour coding	Endless sling	Choke hitch				Asymmetrie	Weight per circumferential length approx. [kg/m]
		100%	80%	200%	140%	100%	100%	
RS PRO 1	purple	1,000	800	2,000	1,400	1,000	1,000	0.16
RS PRO 2	green	2,000	1,600	4,000	2,800	2,000	2,000	0.25
RS PRO 3	yellow	3,000	2,400	6,000	4,200	3,000	3,000	0.24
RS PRO 4	grey	4,000	3,200	8,000	5,600	4,000	4,000	0.45
RS PRO 6	brown	6,000	4,800	12,000	8,400	6,000	6,000	0.66
RS PRO 8	blue	8,000	6,400	16,000	11,200	8,000	8,000	0.88
RS PRO 10	orange	10,000	8,000	20,000	14,000	10,000	10,000	1.20
RS PRO 12	orange	12,000	9,600	24,000	16,800	12,000	12,000	1.40
RS PRO 15	orange	15,000	12,000	30,000	21,000	15,000	15,000	1.74

Order example: Polyester round sling type RS PRO 1 with an effective working length (L1) of 3,000 mm (circumferential length = 6,000 mm), according to EN 1492-2, working load limit in endless slings 1,000 kg.
Order text: Round sling RS PRO 1 x 3,000

pewag Webbing sling type B2 EN 1492-1

With reinforced eyes

Working load limit table (kg) according to the type of sling:						
Webbing width	Colour coding				45°	60°
		100%	80%	200%	140%	100%
30	purple	1,000	800	2,000	1,400	1,000
60	green	2,000	1,600	4,000	2,800	2,000
90	yellow	3,000	2,400	6,000	4,200	3,000
120	grey	4,000	3,200	8,000	5,600	4,000
150	red	5,000	4,000	10,000	7,000	5,000
180	brown	6,000	4,800	12,000	8,400	6,000
240	blue	8,000	6,400	16,000	11,200	8,000

Larger sizes are available on request

pewag Webbing sling type A2

Working load limit table (kg) according to the type of sling:						
Webbing width	Colour coding				45°	60°
		100%	80%	200%	140%	100%
30	purple	1,000	800	2,000	1,400	1,000
60	green	2,000	1,600	4,000	2,800	2,000
90	yellow	3,000	2,400	6,000	4,200	3,000
120	grey	4,000	3,200	8,000	5,600	4,000
150	red	5,000	4,000	10,000	7,000	5,000
180	brown	6,000	4,800	12,000	8,400	6,000
240	blue	8,000	6,400	16,000	11,200	8,000

pewag Webbing sling type B2 4-layer

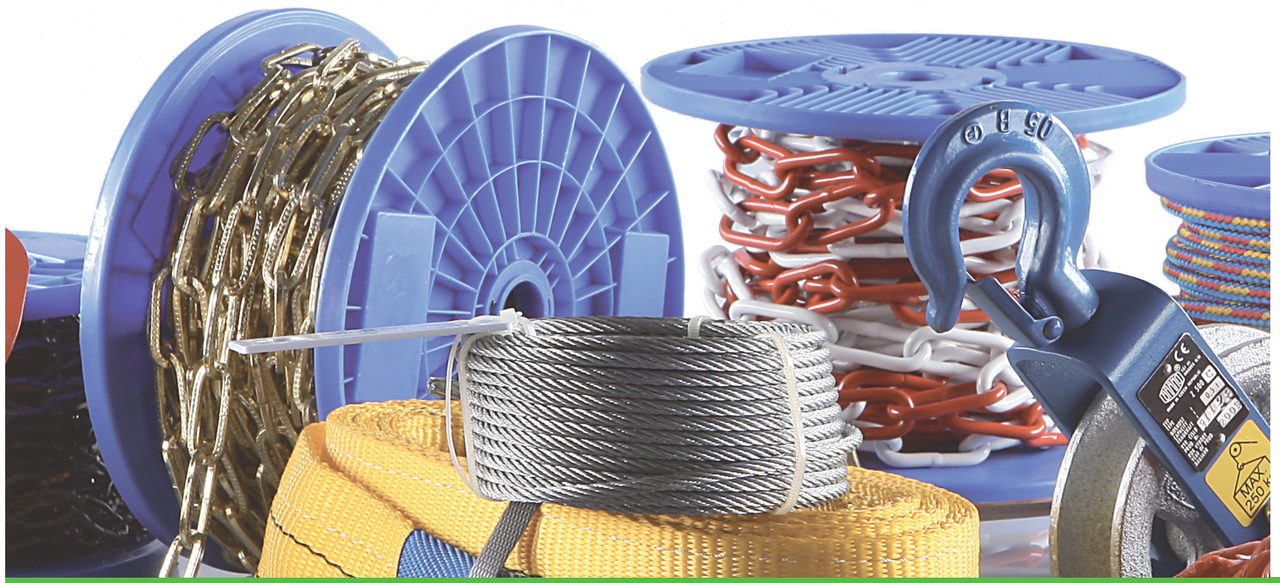
- Webbing slings for use with heavy loads
- Double the load capacity of 2-layer webbing slings of the same width

Working load limit table (kg) according to the type of sling:						
Webbing width	Colour coding				45°	60°
		100%	80%	200%	140%	100%
30	green	2,000	1,600	4,000	2,800	2,000
60	grey	4,000	3,200	8,000	5,600	4,000
90	brown	6,000	4,800	12,000	8,400	6,000
120	blue	8,000	6,400	16,000	11,200	8,000
150	orange	10,000	8,000	20,000	14,000	10,000
180	orange	12,000	9,600	24,000	16,800	12,000
240	orange	16,000	12,800	32,000	22,400	16,000
300	orange	20,000	16,000	40,000	28,000	20,000

Order example: Webbing sling according to EN1492-1 type B2, four-layer webbing slings with reinforced eyes, webbing width 30 mm, effective working length L1 = 4,000 mm, made from polyester PES, working load limit for straight and direct lifting 2,000 kg

Order text: Webbing sling B2 4-layer 30 x 4,000 / 2,000

Larger sizes are available on request



5-fold Single-use lifting sling

- For lifting operations as part of the once-only transportation of goods
- a 5-fold safety factor according to DIN 60005 (orange label),
- a 7-fold safety factor based on EN 1492-1 (blue label)

Working load limit table (kg) according to the type of sling:						
Standard Design	Length [m]				45°	60°
		100%	80%	200%	140%	100%
according EN 1492-1 (Savety factor 7:1)						
Type A 48 x 2000 / 500	2.00	500	400	1,000	700	500
Type A 50 x 500 / 500	0.50	500	400	1,000	700	500
Type A 50 x 500 / 1000	0.50	1,000	800	2,000	1,400	1,000
Type A 50 x 800 / 1000	0.80	1,000	800	2,000	1,400	1,000
Type A 50 x 1000 / 1000	1.00	1,000	800	2,000	1,400	1,000

7-fold Single-use lifting sling

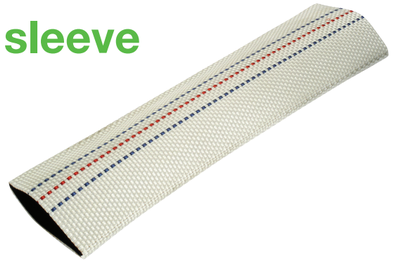
Working load limit table (kg) according to the type of sling:						
Standard Design	Length [m]				45°	60°
		100%	80%	200%	140%	100%
according DIN 60005 (Savety factor 5:1)						
Type A 48 x 500 / 750	0.50	750	600	1,500	1,050	750
Type A 48 x 700 / 750	0.70	750	600	1,500	1,050	750
Type A 50 x 800 / 2500	0.80	2,500	2,000	5,000	3,500	2,500
Type A 50 x 1000 / 2500	1.00	2,500	2,000	5,000	3,500	2,500
Type A 50 x 1300 / 2500	1.30	2,500	2,000	5,000	3,500	2,500

Ideal for one-way transport operations from manufacturer to final consumer. Single-use lifting slings must not be reused and should be destroyed at the end of the transport chain. In this respect, they differ from lifting slings that comply with EN 1492-1 and that may be reused for transport and lifting operations.

Classic areas of application:

- Prefab-house industry and suppliers
- Timber construction
- Transport of overlong goods, e.g. tubes
- Steel distribution

pewag AS Gummed protective sleeve



- Gummed, ideal for rough surfaces
- For sharp edges, we recommend to use an edge protector or a edge wear pad GS
- The standard design is not sewed on the sling, so the sleeve can be moved along the sling. On request also available sewed on the material of the sling

Protective sleeve	Webbing slings B2 / Cr2 mit EZD fig. 1 + 2	Webbing slings A2 fig. 5 + 6	Round slings fig. 3 + 4	Round slings Webbing slings A fig. 5 + 6
AS 38	30 mm	30 mm	1 t	1 t / 2 t
AS 52	60 mm	60 mm	2 t / 3 t	3 t / 4 t
AS 65	-	-	4 t / 6 t	6 t / 8 t
AS 75	90 mm	90 mm	8 t	-
AS 102	120 mm	120 mm	10 t / 12 t	10 t / 12 t
AS 110	150 mm	150 mm	15 t / 20 t	12 t / 20 t
AS 125	180 mm	180 mm	25 t	25 t

One-piece

Two-piece

pewag GS Edge wear pad

- Three-layer, therefore very effective
- Made of Polyester PES
- Length 500 mm, special lengths and special widths available on upon request

Type	Webbing slings	Round slings
GS 50	30 mm	-
GS 90	60 mm	1 t
GS 120	90 mm	2 t / 3 t
GS 150	120 mm	4 t / 6 t
GS 180	150 mm	8 t
GS 240	180 mm	10 t

Edge corners made from polyurethane (PU)

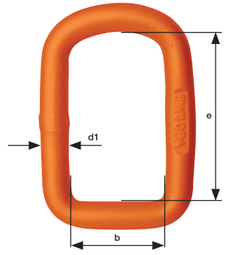
- For webbing slings and round slings
- Available with or without magnet
- Different designs and delivery time upon request

Protective sleeve for labels

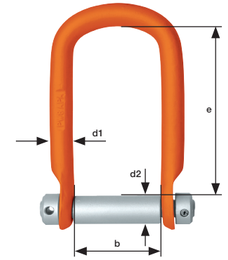
Additional protective sleeve for the load capacity/lashing capacity label is available upon request. If required, the protective sleeve for the label may also be stitched onto the webbing. As lashing straps and webbing slings without labels must be decommissioned, protective sleeves for the label may significantly extend the lifespan of textile lashing and lifting equipment.

pewag ED and EZD High strength fittings

- Made from age-resistant, high-strength material; may be sent back for inspections and reuse to pewag
- Easy assembly and disassembly of the demountable fitting EZD, low wear of end fittings thanks to rotatable steel bolt
- Powder coating for protection against corrosion
- Can also be used in a choke hitch



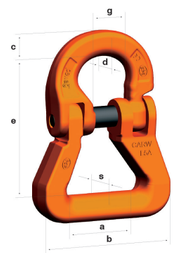
Type	Suitable for sling width	e [mm]	b [mm]	d_1 [mm]	WLL [kg]	Weight [kg/pc.]
ED 40	30	80	40	13	1,000	0.30
ED 75	60	125	75	16	2,500	0.70
ED 105	90	165	105	20	3,000	1.50
ED 135	120	210	135	23	4,000	2.50
ED 165	150	245	165	26	5,000	3.80
ED 195	180	300	195	30	6,000	6.10
ED 265	240	395	265	36	8,000	11.70



Type	Suitable for sling width	e [mm]	b [mm]	d_1 [mm]	d_2 [mm]	WLL [kg]	Weight [kg/pc.]
EZD 60	60	110	60	16	20	2,000	0.70
EZD 100	90	165	100	23	25	3,000	2.00
EZD 120	120	185	120	23	25	4,000	2.50
EZD 150	150	235	150	23	35	5,000	3.20

pewag CARW Round sling connecting link

- For easy assembly of multi-leg webbing slings/ round slings
- Thanks to wide surface suitable for round slings/ webbing slings, no need of reducing the working load limit
- Supplied with Connex halves, bolt and safety bush



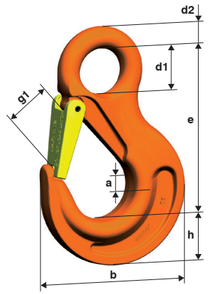
Code	for Webbing sling / Round sling	Working load limit [kg]	a [mm]	e [mm]	c [mm]	d [mm]	b [mm]	s [mm]	g [mm]	Weight [kg/pc.]
CARW 8	30/60 // 1 / 2	2,500	29	66	12	10	65	18	18	0.40
CARW 10	90/120 // 3 / 4	4,000	40	81	15	13	82	21	24	0.55
CARW 13	150 // 6	6,700	50	104	20	17	100	28	28	1.20
CARW 16	180 // 8	10,000	47	113	21	21	110	40	33	2.00
CARW 22	240 // 10 / 12 / 15	19,000	109	178	29	27	215	59	48	6.50

pewag HSW Eye sling hook

For pewag connex system.

To be connected by means of webbing-/ roundsling connector CARW.

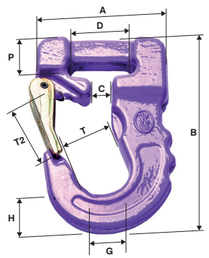
- All hooks with forged safety catch



Code	WLL [kg]	e [mm]	h [mm]	a [mm]	d1 [mm]	d2 [mm]	g1 [mm]	b [mm]	Weight [kg/pc.]
HSW 5/6	1,400	85	21	17	20	10	19	68	0.30
HSW 7/8	2,500	106	27	19	25	11	26	88	0.50
HSW 10	4,000	131	33	26	34	16	31	109	1.10
HSW 13	6,700	164	44	33	43	19	39	134	2.20
HSW 16	10,000	183	50	40	50	25	45	155	3.50
HSW 19/20	16,000	205	55	48	55	27	53	178	5.80
HSW 22	19,000	225	62	50	60	29	62	196	8.00

pewag HBH webbing sling hook

- For direct and easy attachment to round slings and webbing slings. Without the need for additional components,
  this hook allows users to create 1-4-leg assemblies or to attach textile lifting equipment directly to the load
- All hooks include safety catch
- Suitable for the direct installation in round slings or webbing slings, as a connecting link or end hook
- No risk of confusion of load capacities thanks to colour scheme that reflects the colour code for textile lifting equipment



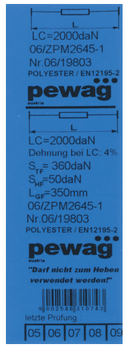
Code	WLL [kg]	A [mm]	B [mm]	C [mm]	G [mm]	H [mm]	P [mm]	T [mm]	D [mm]	D2 [mm]	Weight [kg/pc.]
HBH 1	1,000	78	123	12	17	20	16	31	41	26	0.70
HBH 2	2,000	91	148	19	21	26	17	40	55	31	1.20
HBH 3	3,000	113	175	21	25	32	25	50	55	37	2.20
HBH 4	4,000	130	223	40	36	40	36	59	70	43	4.50
HBH 5	5,000	133	233	40	36	40	36	59	70	43	4.50
HBH 6	6,000	133	223	40	36	40	36	59	70	43	4.50

pewag textile lashing straps

pewag textile lashing strap systems for securing loads are produced according to EN 12195-2. Lashing straps are normally applied as a one-piece lashing strap for strapping or as a two-piece lashing strap composed of a fixed end with tensioning element and end fitting and a loose end with end fitting.

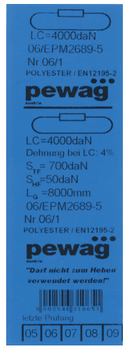
Our extensive range of products ranging from a strap width of 25 to 75 mm and a lashing capacity from 250 to 10,000 daN can be further extended to suit customer's individual needs. Each lashing strap is provided with essential technical data and user information, such like "Do not use for lifting purposes".

Lashing strap labels:



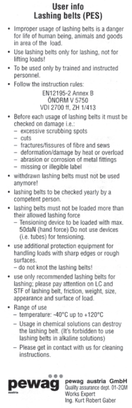
Two-piece fixed ends

Two-piece loose ends



One-piece

User information:


User info
Lashing belts (PES)

- Improper usage of lashing belts is a danger for life of human being, animals and goods in area of the load.
- Use lashing belts only for lashing, not for lifting loads!
- To be used only by trained and instructed personnel.
- Follow the instruction rules:
  EN12195-2 Annex B
  DNORM U 5750
  VDI 2700 fl. ZH 1/413
- Before each usage of lashing belts it must be checked on damage i.e.:
  – excessive scrubbing spots
  – cuts
  – fractures/fissures of fibre and sews
  – deformation/damage by heat or overload
  – abrasion or corrosion of metal fittings
  – missing or illegible label
- withdrawn lashing belts must not be used anymore!
- lashing belts to be checked yearly by a competent person.
- lashing belts must not be loaded more than their allowed lashing force
  – Tensioning device to be loaded with max. 50daN (hand force) Do not use devices (i.e. tubes) for tensioning.
- use additional protection equipment for handling loads with sharp-edges or rough surfaces.
  – do not knot the lashing belts!
- use only recommended lashing belts for lashing; please pay attention on LC and STF of lashing belt, friction, weight, size, appearance and surface of load.
- Range of use
  – temperature: -40°C up to +120°C
  – Usage in chemical solutions can destroy the lashing belt. (It's forbidden to use lashing belts in alkaline solutions)
  – Please get in contact with us for cleaning instructions.

pewag austria GmbH
Quality assurance dept. 01-2GM
Works Export
Ing. Kurt Robert Gaber

Load securing

In the last years, load securing has become an important issue within transportation in Europe. Since public institutions have tightened up controls, the enforcement of a correct load securing will become a statutory duty in future.

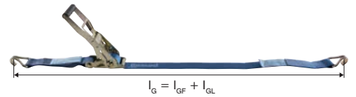
pewag has been for years a competent reference person to suit customer requirements. For detailed information, we offer clients a full consultancy service.

Overview:
Types, length, order text

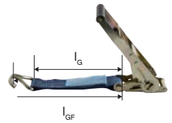
Two-piece lashing strap

One-piece lashing strap

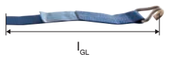
Lengths according to the corresponding standard for one- and two-piece lashing straps



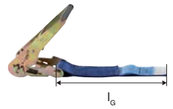
Two-piece lashing strap



Fixed end to lashing strap Two-piece



Loose end to lashing strap Two-piece



One piece lashing strap (in strapping)

Order text two-piece lashing strap:
ZG ERGO DZ 50 x 8000 / 2500 Z DHS
1 2 3 4 5 6

1 Lashing strap system with ratchet indication
2 Width of lashing strap
3 Total length
4 Admissible lashing capacity LC
5 Two-part
6 End fitting DHS

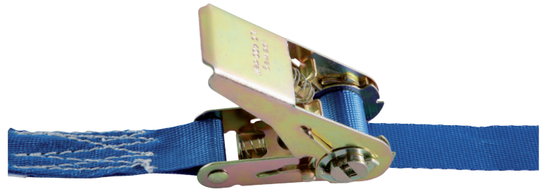
Order text one-part lashing strap:
ZG ERGO DZ 50 x 8000 / 2500 E
1 2 3 4 5

1 Lashing strap system with ratchet indication
2 Width of lashing strap
3 Total length
4 Admissible lashing capacity LC
5 Single-part

pewag Lashing strap ZG 25

with ratchet RA 10

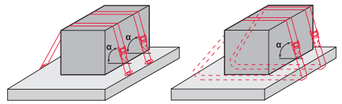
Our space-saving lashing strap system is ideal for direct lashing of very light loads in cars and on roof racks providing also for private purposes safe transportation according to regulations. Available with double J hook and a length of 4m or as one-piece lashing strap with a length of 5m.



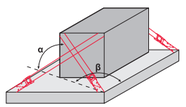
Strap width	25 mm
STF Standard tension force of the ratchet, important to determine the needed lashing straps for frictional lashing	-
LC – two-piece Allowed lashing capacity of the lashing strap, important to determine the needed lashing straps for direct lashing processes	250 daN
LC – one-piece strap Allowed lashing capacity of the lashing strap in strapping	500 daN

Road transport applications:

Frictional lashing
This lashing strap is not designed for frictional lashing according to EN 12195. For special applications, please contact our technical service department.



two-piece one-piece

Direct lashing The load can be secured with 4 lashing straps	Angle		Dynamic friction factor						
			0.01	0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	β [°]	The load can be secured with 4 Lashing straps [daN ~ kg]						
 two-piece	15–35	21–30	-	-	-	850	1,150	1,600	2,450
	15–35	31–40	400	450	600	750	1,050	1,400	2,200
	15–35	41–50	300	400	500	650	900	1,250	1,900
	15–35	51–60	250	300	400	550	700	1,000	1,550
	36–50	21–30	-	-	550	750	1,050	1,550	2,500
	36–50	31–40	300	400	500	700	950	1,450	2,350
	36–50	41–50	250	300	450	600	850	1,300	2,150
	36–50	51–60	-	250	350	550	750	1,150	1,850

Accessories:

ZSH 10
S-hook

RH 10
Double J hook

D 10
Delta link

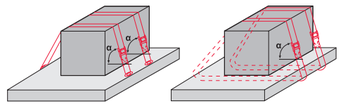
pewag Lashing strap ZG 35

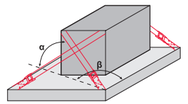
with ratchet RA 40

The handy system for lashing down and direct lashing of light loads for commercial purposes and light trailers is characterized by a smaller strap width. Normally used with double J hooks and a length of 6m.

Strap width	35 mm
STF Standard tension force of the ratchet, important to determine the needed lashing straps for frictional lashing	280 daN
LC – two-piece Allowed lashing capacity of the lashing strap, important to determine the needed lashing straps for direct lashing processes	1,000 daN
LC – one-piece strap Allowed lashing capacity of the lashing strap in strapping	2,000 daN

Road transport applications:

Frictional lashing The load can be secured with 1 lashing strap	Angle	Dynamic friction factor					
		0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	The load can be secured with 1 Lashing strap [daN ~ kg]					
 two-piece one-piece	90	60	140	250	420	700	1,260
	85	50	130	250	410	690	1,250
	80	50	130	240	410	680	1,240
	70	50	130	230	390	650	1,180
	60	50	120	210	360	600	1,090
	50	40	100	190	320	530	960
	40	30	80	160	260	440	800
	30	30	70	120	210	350	630

Direct lashing The load can be secured with 4 lashing straps	Angle		Dynamic friction factor						
			0.01	0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	β [°]	The load can be secured with 4 Lashing straps [daN ~ kg]						
 two-piece	15–35	21–30	-	-	-	3,500	4,650	6,400	9,900
	15–35	31–40	1,600	1,950	2,450	3,150	4,200	5,750	8,950
	15–35	41–50	1,300	1,650	2,100	2,750	3,600	5,000	7,750
	15–35	51–60	1,050	1,300	1,700	2,200	2,900	4,050	6,350
	36–50	21–30	-	-	2,350	3,100	4,300	6,250	10,150
	36–50	31–40	1,250	1,600	2,150	2,850	3,950	5,800	9,500
	36–50	41–50	1,050	1,350	1,850	2,550	3,550	5,300	8,700
	36–50	51–60	-	1,100	1,550	2,200	3,100	4,650	7,550

Accessories:

DKR 50
Delta link with snap hook

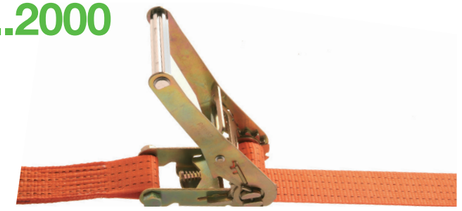
RH 10
Double J hook

D 10
Delta link

pewag Lashing strap ZG 50...2000

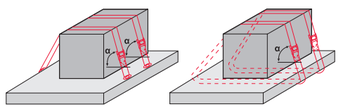
with ratchet RA 100

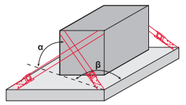
The classic system for the lashing down of medium-heavy loads. The standard system is the “4-ton-strap” with a round hook in 8m and 10m length, available promptly ex warehouse.



Strap width	50 mm
STF Standard tension force of the ratchet, important to determine the needed lashing straps for frictional lashing	360 daN
LC – two-piece Allowed lashing capacity of the lashing strap, important to determine the needed lashing straps for direct lashing processes	2,000 daN
LC – one-piece strap Allowed lashing capacity of the lashing strap in strapping	4,000 daN

Road transport applications:

Frictional lashing The load can be secured with 1 lashing strap	Angle	Dynamic friction factor					
		0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	The load can be secured with 1 Lashing strap [daN ~ kg]					
 two-piece one-piece	90	70	180	320	540	900	1,620
	85	70	170	320	530	890	1,610
	80	70	170	310	530	880	1,590
	70	70	160	300	500	840	1,520
	60	60	150	280	460	770	1,400
	50	50	130	240	410	680	1,240
	40	40	110	200	340	570	1,040
	30	30	90	160	270	450	800

Direct lashing The load can be secured with 4 lashing straps	Angle		Dynamic friction factor						
			0.01	0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	β [°]	The load can be secured with 4 Lashing straps [daN ~ kg]						
 two-piece	15–35	21–30	-	-	-	7,050	9,350	12,850	19,800
	15–35	31–40	3,200	3,900	4,900	6,350	8,400	11,550	17,900
	15–35	41–50	2,650	3,300	4,250	5,550	7,200	10,000	15,500
	15–35	51–60	2,100	2,650	3,450	4,450	5,850	8,150	12,750
	36–50	21–30	-	-	4,700	6,250	8,600	12,500	20,300
	36–50	31–40	2,500	3,250	4,300	5,750	7,950	11,650	19,000
	36–50	41–50	2,100	2,750	3,750	5,100	7,150	10,600	17,450
	36–50	51–60	-	2,250	3,150	4,400	6,250	9,300	15,100

Accessories:

RH 100
Double J hook

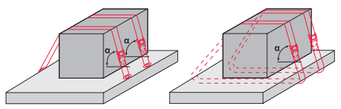
pewag Lashing strap ZG ERGO DZ 50

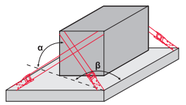
other applications with ratchet RA ERGO-DZ 100

The user friendliest system for the lashing down of heavy loads now allows to be tensioned under pull thanks to the long lever ERGO ratchet. The use of the maximal tensioning force (STF) reduces the required number of lashing straps and saves time when loading. Labels are very durable due to their transparent protective covers.

Strap width	50 mm
STF Standard tension force of the ratchet, important to determine the needed lashing straps for frictional lashing	500 daN
LC – two-piece Allowed lashing capacity of the lashing strap, important to determine the needed lashing straps for direct lashing processes	2,500 daN
LC – one-piece strap Allowed lashing capacity of the lashing strap in strapping	5,000 daN

Road transport applications:

Frictional lashing The load can be secured with 1 lashing strap	Angle	Dynamic friction factor					
		0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	The load can be secured with 1 Lashing strap [daN ~ kg]					
 two-piece one-piece	90	100	250	450	750	1,250	2,250
	85	100	240	440	740	1,240	2,240
	80	100	240	440	730	1,230	2,210
	70	100	230	420	700	1,170	2,110
	60	90	210	380	640	1,080	1,940
	50	80	190	340	570	950	1,720
	40	60	160	280	480	800	1,440
	30	50	120	220	370	620	1,120

Direct lashing The load can be secured with 4 lashing straps	Angle		Dynamic friction factor						
			0.01	0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	β [°]	The load can be secured with 4 Lashing straps [daN ~ kg]						
 two-piece	15–35	21–30	-	-	-	8,800	11,700	16,050	24,750
	15–35	31–40	4,000	4,850	6,150	7,950	11,500	10,500	22,350
	15–35	41–50	3,350	4,150	5,300	6,950	9,050	12,500	19,400
	15–35	51–60	2,600	3,300	4,350	5,600	7,300	10,200	15,950
	36–50	21–30	-	-	5,900	7,850	10,750	15,650	25,400
	36–50	31–40	3,150	4,050	5,350	7,200	9,950	14,550	23,800
	36–50	41–50	2,650	3,450	4,700	6,400	8,950	13,250	21,800
	36–50	51–60	-	2,800	3,950	5,500	7,800	11,600	18,900

Accessories:

DHS 100 Delta link with eye sling hook
RH 100 Double J hook
RHS 100 Double J hook with safety device
D 10 Delta link
KHF 100 Flat snap hook
FH 100 Flat hook
T 100 Claw hook
KHG 100 Twisted snap hook

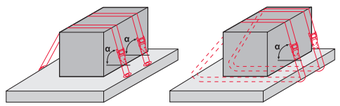
pewag Lashing strap ZG 50

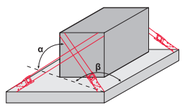
with ratchet RA 100

The most versatile system for friction lashing and economical direct lashing of heavy loads offers a high standard tension force (STF) and is the ideal 5-tonnes-strap for professional applications due to the special lengths and the extensive range of accessories.

Strap width	50 mm
STF Standard tension force of the ratchet, important to determine the needed lashing straps for frictional lashing	350 daN
LC – two-piece Allowed lashing capacity of the lashing strap, important to determine the needed lashing straps for direct lashing processes	2,500 daN
LC – one-piece strap Allowed lashing capacity of the lashing strap in strapping	5,000 daN

Road transport applications:

Frictional lashing The load can be secured with 1 lashing strap	Angle	Dynamic friction factor					
		0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	The load can be secured with 1 Lashing strap [daN ~ kg]					
 two-piece one-piece	90	70	170	310	520	870	1,570
	85	70	170	310	520	870	1,560
	80	70	170	310	510	860	3,610
	70	70	160	290	490	820	1,480
	60	60	150	270	450	750	1,360
	50	50	130	240	400	670	1,200
	40	40	110	200	330	560	1,010
	30	30	80	150	260	430	780

Direct lashing The load can be secured with 4 lashing straps	Angle		Dynamic friction factor						
			0.01	0.1	0.2	0.3	0.4	0.5	0.6
	α [°]	β [°]	The load can be secured with 4 Lashing straps [daN ~ kg]						
 two-piece	15–35	21–30	-	-	-	8,800	11,700	16,050	24,750
	15–35	31–40	4,000	4,850	6,150	7,950	11,500	10,500	22,350
	15–35	41–50	3,350	4,150	5,300	6,950	9,050	12,500	19,400
	15–35	51–60	2,600	3,300	4,350	5,600	7,300	10,200	15,950
	36–50	21–30	-	-	5,900	7,850	10,750	15,650	25,400
	36–50	31–40	3,150	4,050	5,350	7,200	9,950	14,550	23,800
	36–50	41–50	2,650	3,450	4,700	6,400	8,950	13,250	21,800
	36–50	51–60	-	2,800	3,950	5,500	7,800	11,600	18,900

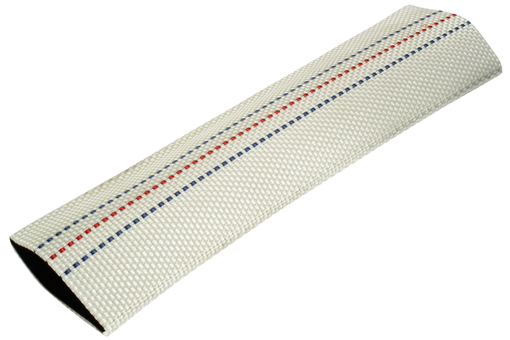
Accessories:

DHS 100 Delta link with eye sling hook
RH 100 Double J hook
RHS 100 Double J hook with safety device
D 10 Delta link
FPH 100 Single J hook with ratchet fitting
KHF 100 Flat snap hook
FH 100 Flat hook
T 100 Claw hook
KHG 100 Twisted snap hook

pewag AS Gummed protective sleeve

- Gummed, ideal for rough surfaces
- For sharp edges, we recommend to use an edge protector or a edge wear pad GS
- The standard design is not sewed on the sling, so the sleeve can be moved along the sling. On request also available sewed on the material of the sling

Type	Lashing strap system [mm]
AS 38	25 / 35
AS 52	48 / 50
AS 65	75



pewag GS Edge wear pad

- Three-layer, therefore very effective
- made of Polyester PES
- Length 500 mm, special lengths and special widths available on upon request

Type	Lashing strap system [mm]
GS 50	25 / 35
GS 75	48 / 50
GS 90	75

pewag Protective sleeve for labels

Additional protective sleeve for the load capacity/lashing capacity label is available upon request. If required, the protective sleeve for the label may also be stitched onto the webbing. As lashing straps and webbing slings without labels must be decommissioned, protective sleeves for the label may significantly extend the lifespan of textile lashing and lifting equipment.

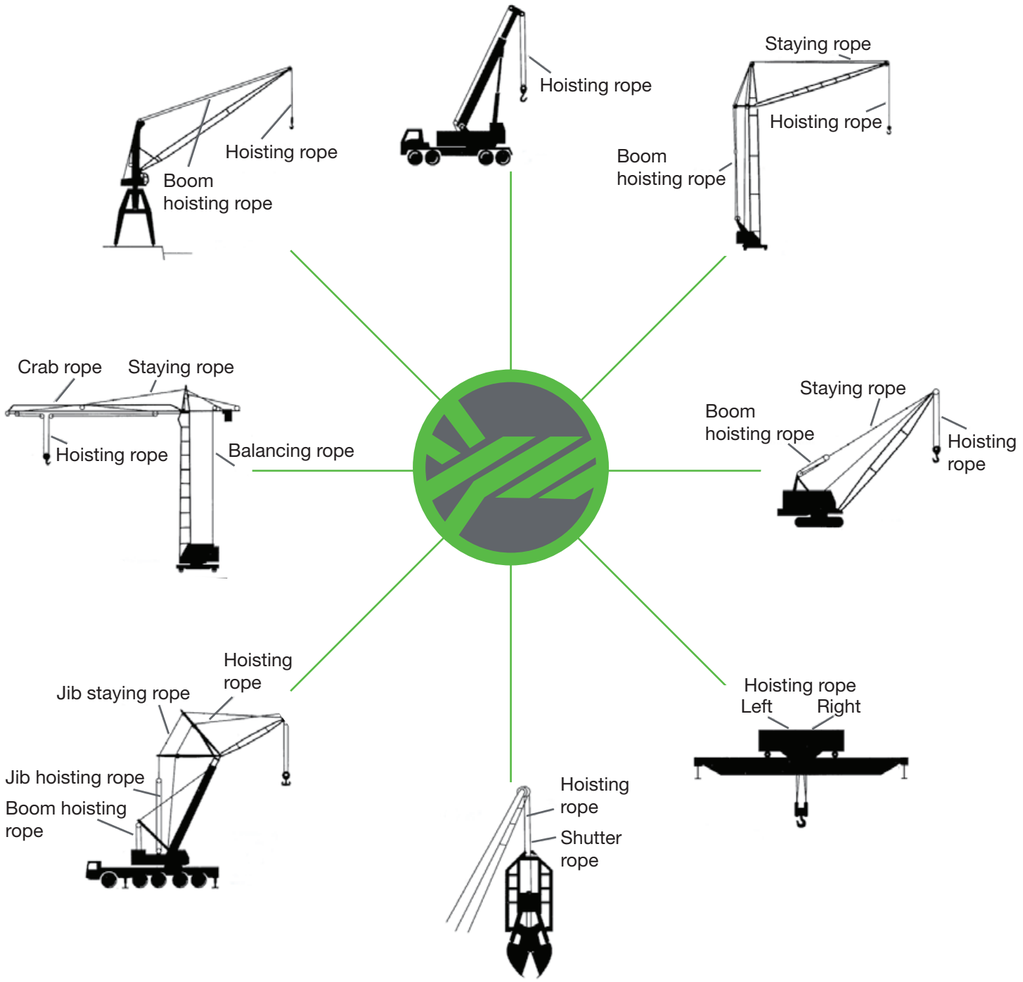
4

PROLIFT
HANDLING LTD

Wire Rope and Accessories

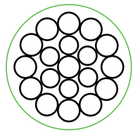
Technical information

Crane Types and Rope Names

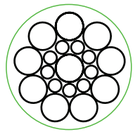


Strand Designs

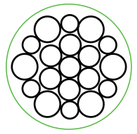
Standard constructions



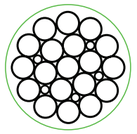
Round Strand
All rope wires have the same diameter.



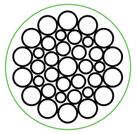
Seale 1x19 (9/9/1)
Every layer has a different wire diameter. All layers have the same amount of wires.



Warrington 1x19 (6+6/6/6/1)
The outer layer consists of wires with two different diameters.



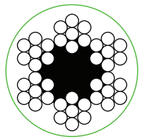
Filler wires 1x25 (12/6F+6/1)
The wires in the outer and inner layers have the same diameter. The space between the layers is filled up by wires with another diameter.



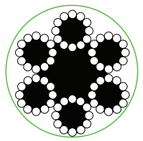
Warrington - Seale 1x36 (14/7+7/7/1)
This design is a combination of Warrington and Seale.

Example of rope sections

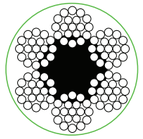
Standard constructions



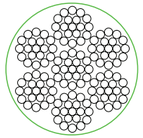
6x7 + FC



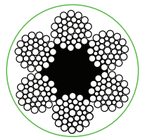
6x12 +7 FC



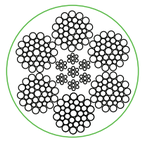
6x19 +FC



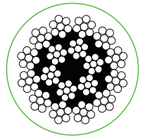
6x19 +WSC



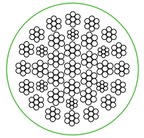
6X36 WS+FC



6x36 WS+IWRC



18x7 +WSC



35x7

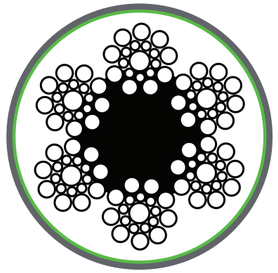
Standard steel wire

6x19 + FC

According to EN 12385-4
Construction: 6x19+FC
Surface treatment: Galvanized

Fields of application

- Cranes
- Lifting equipment
- Hoists
- Elevators
- Winches
- Ski lifts



Fill factor. F = 49%

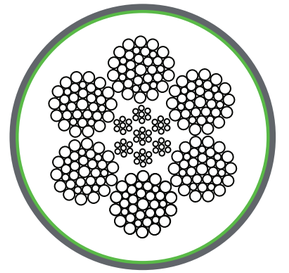
Nominal diameter D		Approx. mass mm²	Weight ca kgs/100m	Min. breaking load	
mm	tol. %			1770 N/mm² kN	180 kp/mm² kp
3	+8-0	3.2	3.0	4.9	500
4	+7-0	5.7	5.4	8.7	887
5	+7-0	9.6	9.0	14.6	1,490
6	+6-0	13.8	12.9	21.0	2,140
7	+6-0	18.8	17.6	28.6	2,920
8	+5-0	24.6	23.0	37.4	3,810
9	+5-0	31.2	29.1	47.3	4,830
10	+5-0	38.5	35.9	58.4	5,960
11	+5-0	46.5	43.3	70.7	7,210
12	+5-0	55.4	51.7	84.1	8,580
13	+5-0	65.0	60.7	98.7	10,100
14	+5-0	75.4	70.4	114	11,700
16	+5-0	98.5	91.9	150	15,300
18	+5-0	125.0	116	189	19,300
20	+5-0	154.0	144	234	23,800
22	+5-0	186.0	174	283	28,800
24	+5-0	222.0	207	336	34,300
26	+5-0	260.0	243	395	40,300
28	+5-0	302.0	281	458	46,700
32	+5-0	394.0	368	598	61,000
36	+5-0	499.0	465	757	77,200

6x36 WS + IWRC

According to EN 12385-4
Construction: 6x36 WS + IWRC
Surface treatment: Galvanized

Fields of application

- Cranes
- Winches
- Bar
- Towing
- Offshore
- Elevator
- Forrest winches
- Pile driver
- Excavator



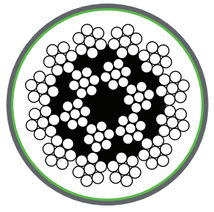
Fill factor. F = 58%

Nominal diameter D		Approx. mass mm²	Weight ca kgs/100m	Min. breaking load			
mm	tol. %			1770 N/mm² kN	180 kp/mm² kp	1960 N/mm² kN	200 kp/mm² kp
10	+5-0	46	40.9	63.0	6,420	69.8	7,120
11	+5-0	55	49.5	76.2	7,770	84.5	8,620
12	+5-0	66	58.9	90.7	9,230	100	10,200
13	+5-0	77	69.1	106	10,800	118	12,040
14	+5-0	89	80.2	124	12,600	137	13,970
16	+5-0	117	105	161	16,400	179	18,260
18	+5-0	148	133	204	20,700	226	23,050
19	+5-0	166	148	227	23,150	252	25,700
20	+5-0	182	164	252	25,900	279	28,460
22	+5-0	220	198	305	31,000	338	34480
24	+5-0	262	236	363	36,900	402	41,000
26	+5-0	308	276	426	43,400	472	48,140
28	+5-0	357	321	494	50,300	547	55,790
30	+5-0	410	376	566	57,700	628	64,060
32	+5-0	466	419	645	65700	715	72,930
34	+5-0	532	473	728	74,200	800	81,600
36	+5-0	590	530	817	83,300	904	92,200
38	+5-0	664	591	910	92,800	1,008	102,800
40	+5-0	729	654	1,010	103,000	1,120	114,200
44	+5-0	882	792	1,220	124,400	1,350	137,700
48	+5-0	1,050	942	1,450	147,900	1,610	164,200
51	+5-0	1,184	1,100	1,640	167,000	1,816	185230
54	+5-0	1,328	1,240	1,840	188,000	2,036	207,670
57	+5-0	1,479	1,390	2,050	209,000	2,269	231,440
60	+5-0	1,694	1,560	2,270	231,540	2,514	256,430
64	+5-0	1,866	1,730	2,688	274,000	2,860	291,720

Stainless steel wire

18x7 + 1 WSC

According to EN 12385-4
Construction: 18x7 + 1 WSC
Surface treatment: Galvanized



Fill factor. F = 52%

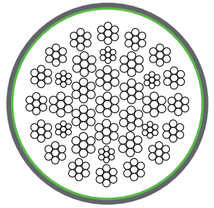
Fields of application

- Building cranes

Nominal diameter D		Approx. mass mm²	Weight ca kgs/100m	Min. breaking load	
mm	tol. %			1960 N/mm² kN	200 kp/mm² kp
5	+6-1	10.2	10	15.6	1,591
6	+5-1	14.7	14.5	23.1	2,350
7	+5-1	20.0	19.7	31.5	3,210
8	+4-1	26.1	24	41.1	4,190
9	+4-1	33.1	31	52.1	5,310
10	+4-1	40.8	38	64.3	6,550
11	+4-1	49.4	46	77.8	7,930
12	+4-1	55.8	55	92.6	9,440

35x7 Non-rotating

According to EN 12385-4
Construction: 35x7
Surface treatment: Galvanized



Fill factor. F = 61%

Fields of application

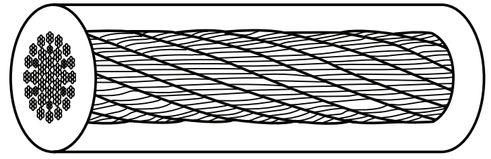
- Building cranes
- Mobile cranes

Nominal diameter D		Approx. mass mm²	Weight ca kgs/100m	Min. breaking load 1960 N/mm² kN
mm	tol. %			
8	+5-0	30.7	29.1	45.2
9	+5-0	38.9	36.8	57.2
10	+5-0	48.0	45.4	70.6
11	+5-0	58.1	54.9	85.4
12	+5-0	69.1	65.4	102.0
13	+5-0	81.1	76.7	119.0
14	+5-0	94.1	89.0	138.0
16	+5-0	123.0	116.0	181.0
18	+5-0	156.0	147.0	229.0
20	+5-0	192.0	182.0	282.0
22	+5-0	232.0	220.0	342.0
24	+5-0	276.0	262.0	406.0
26	+5-0	324.0	307.0	477.0
28	+5-0	376.0	356.0	553.0
32	+5-0	492.0	465.0	723.0
36	+5-0	622.0	588.0	914.0
38	+5-0	693.0	656.0	1,020.0

PVC-Coated Steel Wire

Fields of application

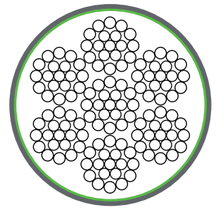
- Locking straps
- Cover wire rope



Nominal diameter mm	Rope wire	PVC application	Weight ca kgs/100m	Min. breaking load vid 1770 N/mm² kp
2.0-3.0	42 wire FZ	Clear	2.0	248
3.0-5.0	42 wire FZ	Clear	5.0	536
4.0-6.0	42 wire FZ	Clear	8.0	963
3.0-6.0	72 wire FZ TIR	Clear	6.0	338
4.0-5.5	72 wire FZ	Red	7.0	601
4.0-5.5	72 wire FZ	White	7.0	601
4.0-6.0	19 wire Stainless (1,570)	White	9.0	1,400

6 x 19 + WSC, Stainless Steel

Construction: 6x19+WSC
Material: AISI 316



Fill factor. F = 52%

Fields of application

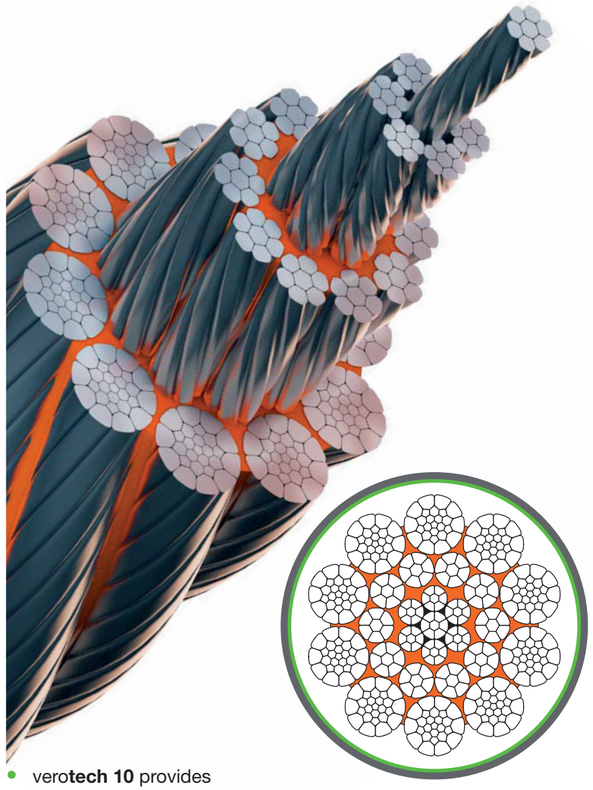
- Lifting equipment
- Cranes
- Hoists
- Winches

Nominal diameter D		Approx. mass mm²	Weight ca kgs/100m	Min. breaking load	
mm	tol. %			1570 N/mm² kN	160 kp/mm² kp
3	+7-1	3.9	3.4	4.8	488
4	+6-1	6.9	6.1	9.8	1,000
5	+6-1	10.8	9.5	13.1	1,330
6	+5-1	15.6	13.8	18.7	1,900
8	+4-1	27.6	24.3	33.4	3,400
10	+4-1	43.2	38.0	52.1	5,300
12	+4-1	62.2	54.7	75.6	7,700

High Performance Hoisting Rope

Combines unmatched bending fatigue resistance with excellent breaking strength.

vero**tech 10** is a very flexible 10-strand, Non-rotation-resistant rope in parallel lay construction with compacted strands and a rope core covered with a plastic layer.



- vero**tech 10** provides excellent breaking strength.
- vero**tech 10** has a very stable rope structure and achieves unmatched bending fatigue resistance.
- vero**tech 10** offers excellent resistance to crushing and abrasion.
- vero**tech 10** possesses perfect spooling behavior on multilayer drum.
- vero**tech 10** may not be used with a swivel.

The rope is fully lubricated. The finish available as standard is galvanized, bright Finish on request.

- Average Fill factor 0.732
- Lay type: Ordinary Lay Rope Category Number (RCN) to determine the number of visible broken outer wires, signaling discard of rope acc. ISO 4309: RCN =11

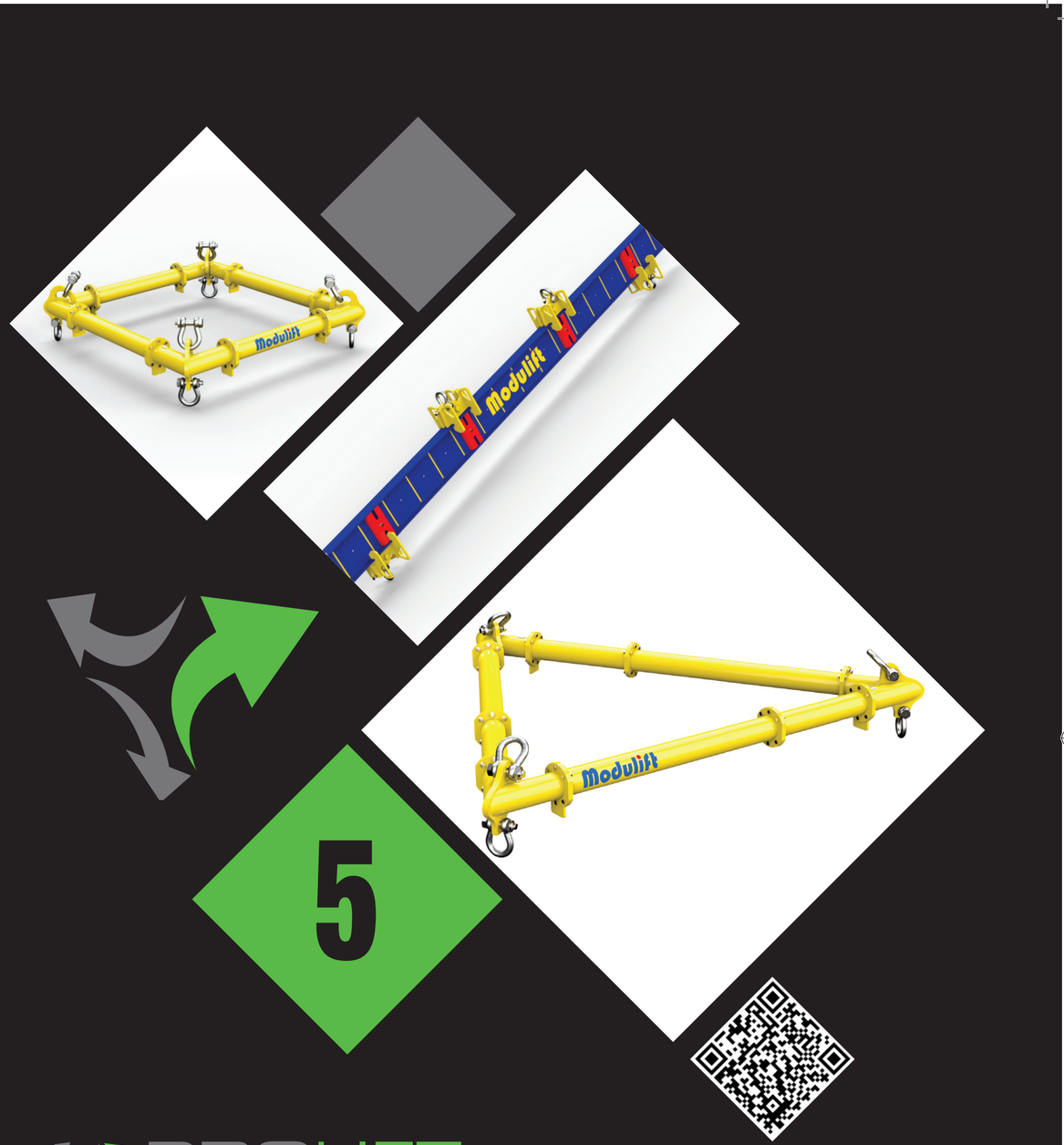
Nominal rope diameter	Approx mass	Minimum breaking force			
		Rope grade			
		1,960		2,160	
mm*	kg/m	kN	t	kN	t
6	0.178	34.9	3.6	38.0	3.9
7	0.242	47.5	4.8	51.7	5.3
8	0.316	62.0	6.3	67.6	6.9
9	0.400	78.5	8	85.5	8.7
10	0.494	96.9	9.9	105.6	10.8
11	0.598	117.3	12	127.7	13
12	0.712	139.5	14.2	152.0	15.5
12.7	0.797	156.3	15.9	170.2	17.3
13	0.836	163.8	16.7	178.4	18.2
14	0.969	189.9	19.4	206.9	21.1
15	1.112	218.0	22.2	237.5	24.2
16	1.266	248.1	25.3	270.2	27.5
17	1.429	280.1	28.5	305.1	31.1
18	1.602	314.0	32	342.0	34.8
19	1.785	349.8	35.6	381.0	38.8
20	1.978	387.6	39.5	422.2	43
21	2.180	427.4	43.6	465.5	47.4
22	2.393	469.0	47.8	510.9	52.1
22.4	2.481	486.2	49.5	529.6	54
23	2.616	512.6	52.2	558.4	56.9
24	2.848	558.2	56.9	608.0	62
25	3.090	605.7	61.7	659.7	67.2
25.4	2.190	625.2	63.7	681.0	69.4
26	3.342	655.1	66.8	713.5	72.7
27	3.604	706.5	72	769.5	78.4
28	3.876	759.8	77.4	827.5	84.3
28.6	4.044	792.7	80.8	863.4	88
29	4.158	815.0	83	887.7	90.5
30	4.450	872.2	88.9	950.0	96.8
31	4.751	931.3	94.9	1,014	103.3
32	5.063	992.3	101.1	1,081	110.2
33	5.384	1,055	107.5	1,149	117.1
34	5.716	1,120	114.1	1,220	124.3

*Standard tolerance: +2% to +4%, other tolerances possible upon agreement.

Other and special rope diameters are available upon request.

Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range.

Subject to modifications, this may change the specifications.



5

PROLIFT HANDLING LTD

Lifting Beams and Spreader Beams

Modulift Working Between the Hook and the Load

Our Vision

To be renowned globally as specialist engineers operating in a niche market, concentrating on the provision of custom and complex lifting solutions and exceeding our customers expectations by providing an all round service on the delivery of value for money and quality products.

Our Mission

To globally deliver our expertise through innovative designs of quality products and customer satisfaction whilst ensuring a safe lifting environment.

Our Values

- **Leadership:** Driving the standard of lifting products higher
- **Passion:** Committed to delivering high quality products and ensuring safety comes first
- **Innovation:** Inspiring engineering genius
- **Quality:** We do what we do well

Modulift can offer you a complete lifting engineering service from start to finish. We are here to help you solve your lifting problems, advise on rig planning, design custom lifting equipment, or manufacture quality assured products to the highest specifications.

*MOD and CMOD are trademarks of Modulift UK Ltd

Standard Off-the-Shelf Range						Standard Made-to- Order Range
QJ2 Up to 2t at 1.2m/4ft	**MOD 24** Up to 24t at 5m/17ftUp to 8m/26ft at a lower capacity	**MOD 70** Up to 70t at 10.5m/34ftUp to 14m/45ft at a lower capacity	**MOD 110H** Up to 170t at 11.5m/37ftUp to 18m/59ft at a lower capacity	**MOD 250/300** Up to 300t at 13m/40ftUp to 21m/68ft at a lower capacity	**MOD 400/500** Up to 500t at 15m/50ftUp to 24m/78ft at a lower capacity	**MOD 600/800** Up to 800t at 18m/60ftUp to 26m/85ft at a lower capacity
MOD 6 Up to 6t at 3.6m/148”Up to 4.5m/176” at a lower capacity	**MOD 34** Up to 34t at 6m/19ftUp to 10m/32ft at a lower capacity	**MOD 70H** Up to 100t at 8.5m/28ftUp to 14m/45ft at a lower capacity	**MOD 110SH** Up to 240t at 10.5m/34ftUp to 17m/55ft at a lower capacity	**MOD 250/400** Up to 400t at 11m/36ftUp to 21m/68ft at a lower capacity	**MOD 400/600** Up to 600t at 14m/46ftUp to 24m/78ft at a lower capacity	**MOD 600/1000** Up to 1000t at 15m/50ft and up to 26m/85ft at a lower capacity
MOD 12 Up to 12t at 4.75m/15ftUp to 6.5m/21ft at a lower capacity	**MOD 50** Up to 50t at 8m/26ftUp to 13m/42ft at a lower capacity	**MOD 110** Up to 110 t at 14m/46ftUp to 18m/59ft at a lower capacity	**MOD 250/250** Up to 250t at 14m/46ftUp to 21m/68ft at a lower capacity	**MOD 400/400** Up to 400t at 17m/58ftUp to 24m/78ft at a lower capacity	**MOD 600/600** Up to 600t at 21m/70ftUp to 26m/85ft at a lower capacity	**MOD 1100/2000** Up to 2000t at 26m/85ft and up to 36m/118ft at a lower capacity

Modulift Modular Spreader Beams

Modular Spreader Beams provide the ideal solution for most lifting requirements – versatile and cost-effective, the Modulift range has capacity from 2t to 5000t with spans up to 330ft/100m. The modular confi guration and interchangeable components enable Modulift Spreaders to be reused over many lifts. Designed by our engineering experts and manufactured in our own specialist facilities; the Modulift range are the leading Modular Spreader Beams on the market.

Spreader Beams up to 600t are in stock and available worldwide for distribution – please contact Modulift for an immediate quote or further details.

Every Modulift Modular Spreader Beam consists of a pair of End Units and a pair of Drop Links, with interchangeable struts that can be bolted into the assembly between the End Units to either lengthen or shorten the beam to suit the requirements of the lift, making them reusable at different spans.

Flexibility beyond the Spreader Beam

Using our range of interchangable corner units and T-pieces, Modulift struts can be used throughout the product portfolio to achieve a variety of confi gurations including 3-point, 4-point, 6-point and 8-point frames.

End units also offer maximum flexibility with trunnion and Clevis drop link options enabling the user to have two slings hung from each end of the beam for a variety of benefits.

Tri-MOD

CMOD

CMOD with T-pieces

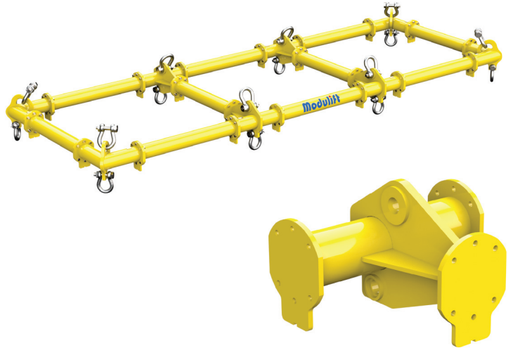
Clevis and Delta Drop Links

Modulift® Multi-point lifting frames

Spreader Frames and Lifting Frames are recommended for loads that have more than two lifting points; they can also be the ideal lifting equipment for when headroom is limited. Modulift offer several types of Spreader Frames and Lifting Frames for Multi-Point Lifts.

CMOD Spreader Frames

Our most economical option is the newly designed CMOD Modular Spreader Frame. Lighter and stronger with newly designed corner units giving a 40% weight saving, the CMOD is designed to expand the capabilities of our Modular Spreader Beam System. The struts from the Spreader Beam are combined with 4 Corner Units to complete the Frame. Customers that already have Modulift struts can re-use these with the Corner Units to achieve 4-Point lifts, making this a versatile solution. The CMOD Spreader Frame is currently available from the CMOD 6 up to the CMOD 250. The systems will lift up to 300t.

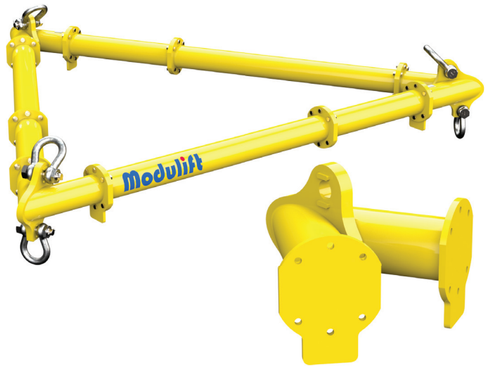


CMOD T-Pieces

Expanding on a very popular CMOD Spreader Frame, Modulift have designed and manufactured a T Piece to further develop the capabilities of the CMOD Spreader Frame. This additional connection allows the frame to become a 6 point or 8 point frame.

Benefits:

- With more lifting points, there is more support for multipoint lifts
- Reduces the rigging compared to a cascading spreader beam arrangement
- Lower head room compared to a cascading spreader beam arrangement



Tri-MOD

The Tri-MOD is a triangular frame once again utilizing the struts from the Modular Spreader Beam range. The Tri-MOD is popular for many 3-point lift requirements including circular lifts.

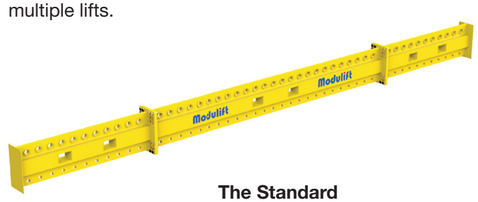
Modulift® The Multi-Point Beam

The Multi-Point Beam is the most adaptable in the Modulift range

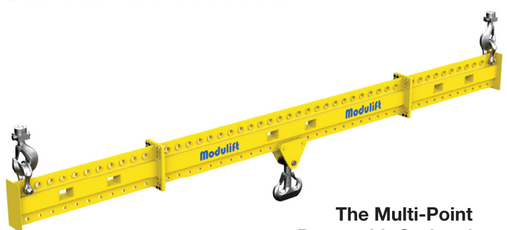
The Multi-Point gives unrivalled Modulift strength and reliability with additional features to suit different lifting scenarios.

With lifting points on the top and bottom, the Multi-Point Beam is an innovative piece of kit that can be reused for multiple lifts.

The Multi-Point can be supplied with or without swivel hook, allowing for tandem lifts where there is only one lower lifting point required. It can be used as a semi-spreader to give a steadier lift, and as a Lifting Beam where headroom is limited.



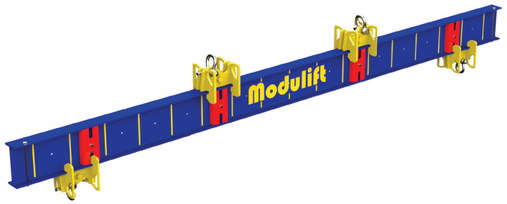
The Standard Multi-Point Beam



The Multi-Point Beam with Optional Swivel Hook

Modulift® CLS - Clamp Lifting System

The Modulift CLS clamp lifting system provides a safe, fast, and adjustable beam, enabling users to lift from multiple points!

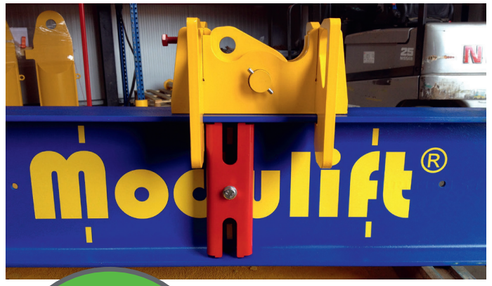


The MOD CLS clamps are stocked as a boxed product for immediate shipping that eliminates delays incurred waiting for alternative solutions, which often have to be manufactured to order.

The MOD CLS is currently available in several sizes from 8.5t to 27t capacity, depending on configuration, and offered with four clamps as standard to adjust the lifting points to enable flexibility between a single top lifting point (lifting beam) or two top lifting points (semi spreader beam).

The pre-assembled clamps are supplied ready to fit on the beam. The beam is able to be pre-marked to assist with clamp placement for all configurations shown on our User Instructions.

Additional clamps can be purchased to enable multiple lower lifting points to be utilized.



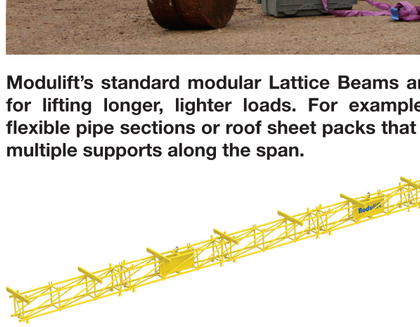
Now available with a WLL of 27t

System Benefits

- Available next day as a boxed off-the-shelf product
- Adjustable lifting points and low headroom capability
- Easy to convert between a Lifting Beam and Spreader Beam
- Spans of up to 6m and capacities of up to 8.5t depending on configuration

Modulift® Lattice Spreader Beams

Modulift's standard modular Lattice Beams are ideal for lifting longer, lighter loads. For example, long, flexible pipe sections or roof sheet packs that require multiple supports along the span.



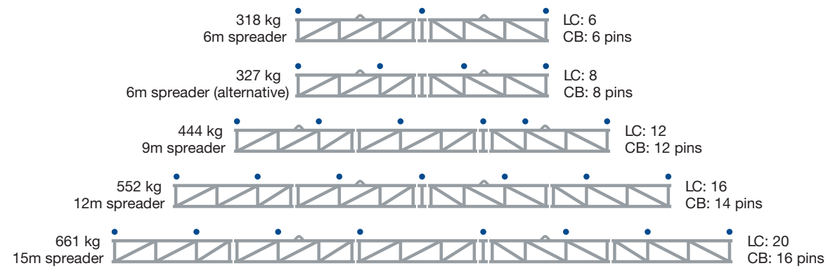
Modulift offer 3t and 5t capacities as standard, with spans up to 30m unsupported centrally, and up to 42m utilising a simple central support sling system. Please contact Modulift for more detail on this if unsure. For heavier more complex lifts, Modulift can also offer a custom solution lattice with capacities 5t–150t.

Lifting Points/Load Connection Points 6–15m Span

● = connection point for cross bar, and/or connection point for sling to weld eye.

LC= Lattice Connections

CB = Cross Beams



Spreader	Configuration (frame types)							No. of Crossbeams
6m	2	3	2					3 or 4
9m	2	1	3	2				6
12m	1	2	3	2	1			7
15m	1	2	1	3	2	1		8
1=Type 1 Frame 2=Type 2 Frame 3=Type 3 Frame	Maximum 1.5m overhang of roofing sheet per end							

Modulift® Engineered Products Custom Design

Modulift can design and manufacture a Custom Lifting Solution, providing expert engineering, manufacturing excellence and quality assurance.

Because not every load fits into a standard mould, our engineering team are lifting industry experts who will work with you and your team, to custom design and build the ideal solution for your lifting requirements. With innovative thinking, we can develop the right equipment to meet your needs whether they be height, environment, weight, flexibility of use, speed of assembly, or transportation requirements to name but a few – Modulift can design a custom solution for you.

Modulift have been building and supplying lifting equipment with high level QA requirements across the Oil & Gas, Renewable Energy, Offshore, Maritime, OEM, Aerospace and Heavy Haulage industries worldwide. We have extensive experience in delivering equipment for these critical projects successfully, on time, and to meet the project's individual requirements -we can design and manufacture a Custom Lifting Solution within 4–6 weeks!

Our sample Case Studies describe Custom Projects where we have either designed and manufactured an entirely 'Custom' lifting solution; Or we have adapted our standard designs/products -tailoring and manufacturing them to meet the highest level of QA standards.

Our partner Modulift offer a complete Design & Manufacturing service that incorporates key deliverables such as:

- ITP / Quality Plan
- Full material traceability – 3.1 or 3.2
- Weld Book: WPQR, WPS, WQTC & Weld Mapping
- Procedures & Reports: NDT, Proof Load Testing, and painting

Our team of welder/fabricators are qualified to BS EN 287-1, with specification & qualification of weld procedures to BS EN ISO 15614-1. Welding can also be carried out in compliance with other international standards.

6

PROLIFT
HANDLING LTD

Load Measuring Devices

LMS Load Link

Accurate and reliable tensile load monitoring for lifting applications.

Suitable for all industry sectors including marine, offshore and subsea. Due to the robust, lightweight high tensile aluminium design these load links are Ideal for mobile applications and available as either cabled or wireless with a range of options.

Retro-fit load monitoring to existing applications where shackles are already available and fits all major shackle manufacturers including Van Beest, Crosby and GN Rope.

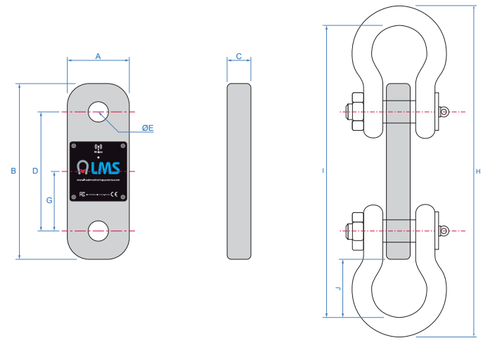
Options

- Wireless & Internal Antenna
- Matched Telemetry Displays
- Rent this item
- Cabled with 49.2ft flying cable
- Data Logging Software Available
- ATEX version

Specifications		
Overload Tested (Proof Load)		200% rated load (6.5te - 250te sizes) 150% rated load 300te and above
Minimum Breaking Load (MBL)	5Te to 400Te	500% rated load
	500Te	450% rated load
Dead Load Offset		+/- 0.1mV
Accuracy		< 0.5% of applied load
Repeatability		< +/- 0.1% of applied load
Hysteresis up to FS		Minimal
Operating temperature		-20°C to +70°C
Environmental Rating		IP67
Range		800 Meters (straight line uninterrupted view)
Transmit rate		900ms (standard)
Antenna (Wireless Version)		Internal
Radio (Wireless Version)		2.4 Ghz; worldwide licence free
Cabled Version Output Signals		**Analogue signals** 4-20mA in 2 or 3 wire output with 10-30VDC supply 0-5VDC or 0-10VDC 3-wire output with 10-30VDC supply **Digital signals** RS232 with a protocol of your choice with 5-20VDC supply RS485 with a protocol of your choice with 5-20VDC supply
Cable Version Connection Type		Load link with plug-in socket and 15m, 4-core screened PUR cable with matched plug-in connector fitted. Other types on request.
Battery Type / Lifespan	Load Cells	6.5Te - 2 x AAA 1.5V @ 500+ hours (continuous) 13.5Te - 85Te Load Link - 2 AA 1.5V @ 1200+ hours (continuous) 100Te - 500Te Load Link - 2 x C 1.5V @ 2000+ hours (continuous) Battery changes are reduced when device is put on sleep mode during 12 month calibration windows.
	Display	2 x AA 1.5V batteries @ 40 hours (continuous)
Calibration		12 months (calibration service available)
Warranty		12 months
Material Finish		Lightweight, high tensile grade aluminium, hard anodised for marine environments.
Traceability and Safety Compliance		BS EN ISO 7500-1:2004, Machinery directive 2006/42/EC (SI 2008/1597)
ATEX Options		
Zone 2		Standard options (wireless and cabled) - see datasheet
Zone 1		Standard options (wireless and cabled) - see datasheet
Zone 0		Stainless steel construction, cabled options – Contact Prolift Handling for more details

Features

- Load link designs from 6.5Te to 500Te as standard other capabilities on request
- Designed to be rigged & operated with a Working Load Link (WLL) of the same capacity
- Safety factor of 5:1
- Accuracy <0.5% of applied load
- ATEX versions available for zones 0, 1, & 2
- Subsea variants available on request
- Every unit load tested and certified



Load Link Dimensions mm																
Capacity Tonne	1	3.25	6.5	13.5	17	25	35	55	85	100	150	200	250	300	400	500
A	52	60	84	84	93	127	137	163	198	236	272	331	353	398	490	540
B	151	183	238	292	302	332	386	466	518	610	695	769	829	937	1037	1137
C	31	31	32	45	50	60	70	75	104	105	136	150	175	190	198	198
D	117	133	162	182	182	206	226	286	310	350	395	419	469	517	547	607
ØE	12	20	27	40	43	55	61	75	86	100	118	135	145	158	180	190
G	58.5	66.5	81	91	91	103	113	143	155	175	197.5	209.5	234.5	258.5	273.5	303.5
Weight (kg)	0.35	0.65	1.35	2.3	3	5.7	8.25	16	23.45	36.05	59.5	89.5	123.5	167	251	311

Load Link & Shackle Dimensions mm																
H	221	312	397	556	592	702	777	1006	1201	1435	1533	1815	1977	2183	2398	2588
I	201	280	353	486	516	612	677	876	1051	1245	1323	1575	1717	1903	2058	2228
J	25	48.5	57.5	97	107	140	145.5	205	266.5	317.5	314	403	444	483	510.5	545.5
Combined Weight (kg)	0.67	2.13	4.89	15.38	19.38	34.14	47.31	95.18	147.45	256.05	409.5	559.5	693.5	847	1371	1681
Kit Weight (kg)	2.5	6	5	6	6.7	9.5	12	23	30	47	74	106.15	140.15	183.65	267.65	327.65

Shackle Size/Type	1	3.25	6.5	13.5	17	25	35	55	85	100	150	200	250	300	400	500
Van Beest			G-4163							P-6036						
GN Rope			H9							H10						
Crosby			G2130 to G2140													

Load Cell Data Logging

LMS-LOG100 Advanced data logging software provides real time monitoring of up to 100 load cell devices simultaneously.

Remotely access your data quickly and easily from a computer, tablet & smart phone via web browser. Export data in standard JSON or CSV formats with customizable reporting to suit your needs.

Displays & Portable Case

Rugged case design with foam compartments to firmly hold the load link, telemetry display, spare set of batteries. Can also accommodate connecting cable for wired units and matched set of shackles.

- Lockable case
- Plastic case available for 6.5Te - 85Te
- Custom transport case 100Te - 500Te

LMS Load Cell Display

Our advanced handheld display allows you to connect and monitor up to 12 wireless load monitoring devices.

These displays are matched to the LMS devices and feature a simple to use tactile keypad and easy to read multi-digit 9mm LCD display and a maximum wireless range of 600m+.

T24-HS Features

- Display for individual or summed load values.
- Calibrated in Te with pounds resolution accuracy (alternative weighing units on request eg kg, kN, lb, Te).
- Tare function.
- Fully configured and calibrated for your application.
- Sleep/wake acquisition modules.
- Very low power consumption for long battery life.
- Auto shutdown feature available on request.
- Power by 2 x AA internal batteries.
- Worldwide licence exempt 2.4 GHz radio.
- RS232 output available on request. Requires base station for wireless displays and dual cable on cabled displays.
- Operating Temperature -10°C to +50°C.
- Relative humidity 95% noncondensing.
- Environmentally sealed to IP65.
- Carry case available.

T24-HDP Features

- All the basic features of the T24-HS with the addition of;
- Dual Unit Function – The user can select two different units of measurement.
- Peak Hold Function – The display has the option to select & hold the highest 'Peak' recorded reading.

Dimensions

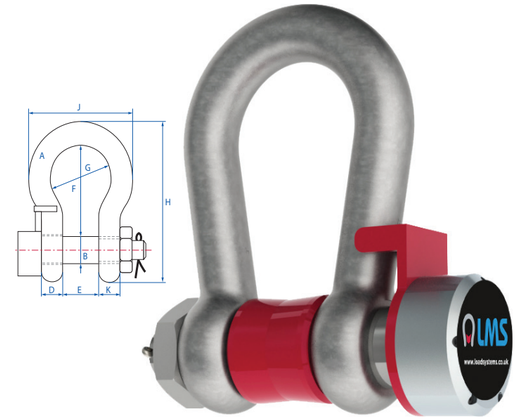
ATEX version

LMS Load Pin Shackle

Robust, compact high tensile steel design from 2Te to 2000Te.

Ideal for precise tensile load monitoring for your lifting, static, pulling or weighing applications. Suitable for all industry sectors including marine, onshore, offshore and subsea.

You can be confident each shackle and load pin is up to the task with the certified load test before delivery.



Options

- Wireless & Internal Antenna
- Matched Telemetry Displays
- Rent this item
- Cabled with 49.2ft flying cable
- Data Logging Software Available
- ATEX version

Standard Designs (Van Beest Shackles)

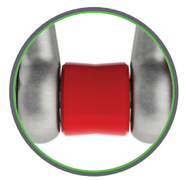
Capacity Te	Dimensions (mm)								Weight (kg)
	a	b	d	e	f	g	h	j	
3.25	16	19	16	26	63	43	110	75	1.7
4.75	19	22	19	31	76	51	129	89	1.9
6.5	22	25	22	36	83	58	143	102	3.2
13.5	35	38	35	57	133	92	227	238	6.54
25	45	50	45	74	178	126	300	216	14.22
35	50	57	50	83	197	138	331	238	19.85
55	65	70	65	105	260	180	433	310	39.59
85	75	83	73	127	329	190	527	340	62
120	95	95	91	147	400	238	647	428	110
150	105	108	102	169	410	275	688	485	160
200	120	130	113	179	513	290	838	530	235
250	130	140	118	205	554	305	904	565	285
300	140	150	123	205	618	305	996	585	340
400	170	175	164	231	668	325	1114	665	560
500	180	185	164	256	718	350	1190	710	685
600	200	205	189	282	718	375	1243	775	880
700	210	215	204	308	718	400	1263	820	980
800	210	220	204	308	718	400	1270	820	1100
900	220	230	215	328	718	420	1296	860	1280
1000	240	240	215	349	718	420	1336	900	1460

Standard Designs (Crosby Shackles)

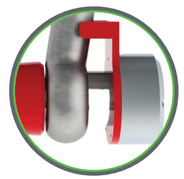
Capacity (Tonne)	Dimensions (mm)								Weight (kg)
	a	b	d	e	f	g	h	j	
6.5	24.6	25.4	22.4	36.6	84	58	148	102	3.2
25	44.5	51	49	73	178	127	313	225	18

Features

- Design uses VanBeest™ Greenpin® shackles as standard, others on request
- Load pins from high-strength stainless steel
- Safety factor of 5:1
- Up to 12 shackles can be linked to the handheld display for individual or summed load values
- Integral signal conditioning
- Subsea variants available on request
- Special design available on request



Centralising bobbin for improved load cell accuracy



Integrated aerial for added protection

LMS Load Pin

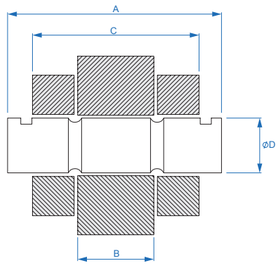
Accurate real-time load monitoring of any load bearing pin connection or joint.

Load pins are integrated in mechanical structures and mechanisms to provide precise load monitoring accurate to 1%, safety factor of 5:1 and all proof-loaded to 150%.

Used in construction, automation, marine, offshore and subsea, these pins can be designed to suit your application with capacities from 2Te to 2000Te.

Options

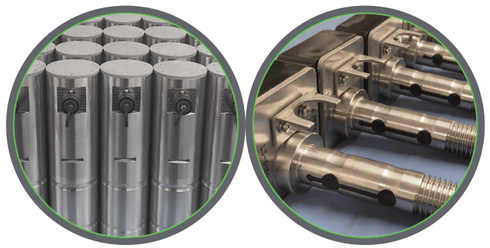
- Wireless & Internal Antenna
- Matched Telemetry Displays
- Rent this item
- Cabled with 49.2ft flying cable
- Data Logging Software Available
- ATEX version



Indicate preferred side for load pin head and anti-rotation plate with enquiry.

Each load pin will be designed and manufactured to suit your application, ensuring maximum performance and ease of installation.

Detailed above are the most critical dimensions. When making an enquiry, please provide these values (A, B, C and D) along with any additional requirements/restrictions due to the application such as pin length, head size etc.



Features

- Output options include mV, mA, V, RS232 with others available (on request)
- Single, dual and redundant bridge designs
- Standard operating temperature -20°C to +80°C
- Plug-in connector versions available
- Integral signal conditioning available
- Enclosure IP67 as standard
- Subsea variants (on request)
- Every unit load tested and certified

Load Pin Locking

The load pin needs to be securely locked into position. This can be achieved by the following common methods:

- Single anti-rotation plate
- Double anti-rotation plate (both on one end or one on each end of pin)
- Anti-rotation plate, split pin & washer
- Anti-rotation plate and lock nut on threaded end of load pin
- Anti-rotation yoke (similar to shackles), split pin & washer

LMS Running Line Tensiometer

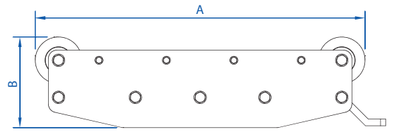
For winch, crane, towing, laying and tensioning applications.

Monitor speed, payout for wire rope, synthetic rope, dyneema, fibre optic and cable systems in marine, offshore, onshore and subsea applications.

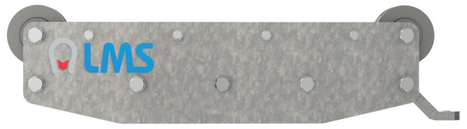
Incorporate data logging and the matched line monitor display for capacities up to 120Te.

Options

- Wireless & Internal Antenna
- Matched Telemetry Displays
- Rent this item
- Cabled with 49.2ft flying cable
- Data Logging Software Available
- ATEX version



RLM Dimensions (mm)					
Rope Size	Model	A	B	C	Weight (kg)
10	1	722	250	162	21.5
13	1	722	250	162	21.5
16	1	722	250	162	21.5
19	1	722	250	162	21.5
22	1	722	250	162	21.5
25	1	722	250	162	21.5
22	2	810	270	186	37
25	2	810	270	186	37
28	2	810	270	186	37
32	3	963	297	188	56
35	3	963	297	188	56
38	3	963	297	188	56
40	3	963	297	188	56
42	4	1029	296	198	77
44	4	1029	296	198	77
48	4	1029	296	198	77
52	8 ST	1250	426	185	125
56	8 ST	1250	426	185	125
64	8 ST	1250	426	185	125
70	8 EX	1703	488	278	330
77	8 EX	1703	488	278	330
88	8 EX	1703	488	278	330
103	8 EX	1703	488	278	330



Features

- 20 Running line tensiometer designs
- Line capacities up to 120Te
- Rugged design for operation in the most extreme environments
- Simple and quick access for line/rope fitting
- Marinised design ensures corrosion prevention in offshore environments
- Line mounted supplied with tether/swivel mount as standard with the options for bolt on feet or trunnion mount (pivot on 2 feet)
- Custom mounts available on request

Use in conjunction with LMS handheld displays

Line Monitor Displays

Matched with our running line tensiometer featuring simple to use keyboard and clear multi-digit 0.35mm LCD display.

- Calibrated in tonne with weight resolution accuracy available in kg, lb or kN
- Wireless range of 600m+
- Tactile keypad
- Low power consumption for long battery life

LMS Compressive Load Cell

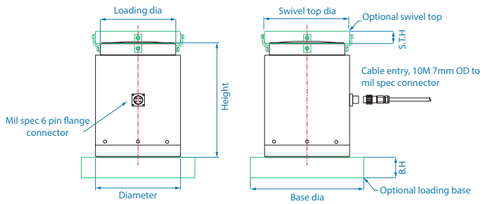
Compressive load monitoring indoors, outdoors or subsea.

Perfectly at home in the laboratory or hostile marine environment, the compact and robust stainless steel design can be used for weighing, force measurement and calibration.

Standard capacities from 2Te to 1000Te, accuracy better than 1% and each unit proof loaded to 200% (LOLER compliant) and certified.

Options

- Wireless & Internal Antenna
- Matched Telemetry Displays
- Rent this item
- Cabled with 49.2ft flying cable
- Data Logging Software Available
- ATEX version



Typical Load Cell Sizes

Capacity (Tonne)		50	100	200	300	500	1000
Diameter (mm)	øA	75	120	125	150	200	290
Height (mm)	B	110	142	180	180	300	425
Loading Diameter (mm)	øC	60	90	110	130	170	250
Spherical Cap Diameter (mm)	øF	65	93	125	150	200	290
Spherical Cap Height (mm)	G	10	18	30	30	50	50

New Centre of Gravity Feature

The Centre of Gravity (COG) function found within T24LOG100 gives you the tools to quickly calculate and visualise centre of gravity from up to eight sources of weight data. Choose your weight data, specify the X and Y co-ordinates and let LOG100 do the work to calculate and display the position of COG.

Features

- Cells designed to your application
- Safety factor of 5:1
- Operating temperature -20°C to +80°C as standard
- Enclosure IP67 rated
- Output options include mV, mA, V, RS232 with others available, on request
- Single, dual and redundant bridge designs
- Extra support base flanges available on request
- Plug-in connector versions available
- Integral signal conditioning available
- Subsea variants available on request

Cabled versions with 10m glanded exit flying cable as standard. Other lengths available on request.

LMS Digital Pad Eye Tester

Allows you to proof test your pad eyes to ensure a safe lift.

Lightweight, portable tool for testing pad eyes, lifting lugs, and eye bolts. It can be used upright, inverted, or in a horizontal plane. Models are available up to 10Te & 30Te models proof test capability. Equipped with an adjustable clevis height and Digital Mounted Display.

Features

- Light weight and portable
- Assist handles on two sides
- Large dial capacity readout
- Xylan coated fi nish
- 10ft. polyurethane hose with quick couplers
- Lightweight two-speed hand pump with locking handle
- Proof tested and calibrated
- Carrying case

Our Unique Digital Pad Eye Tester

There are many pad eye testers in the market however the main unique difference with LMS pad eye tester is the on board 'Digital display' (Tonnes, US Ton, Lbs, Kg) and the ability to transmit the information wirelessly to a Hand held Display, a Laptop or PLC and fi nally the Bluetooth feature for use with a Mobile Phone, Tablet or Laptop.

Applications

Proof testing pad eyes, lifting lugs, and eye bolts. Can be used upright as pictured, inverted, or in a horizontal plane.

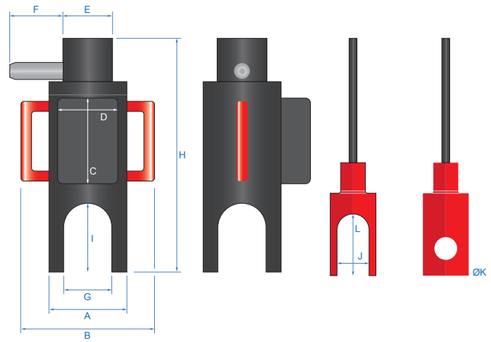
Display Options

- Standard – On Board Digital Display
- Bluetooth – Mobile & Table App
- Wireless – Laptop or Handheld Display
- Data Logging – Laptop

LMS Digital Pad Eye Tester

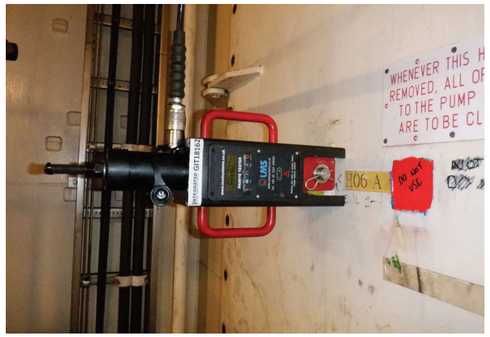
Technical information.

Padeye Tester Dimensions (mm)												
SWL	A	B	C	D	øE	F	G	H	I	J	øK	Weight
10te	124.5	258.5	188.5	99.5	70.5	77	78.5	471	120	52	33	11.5kg
30te	203	330	188.5	99.5	115	96	100	767	234	72	53	56kg



Features
Digital Mounted Display
Peak Value
Zero Function
Overload Warning
Displays readings in US TN, Tonnes, kg & lb
Lightweight with Handles for Easy Transport
Bluetooth Signal
Radio Wireless Signal Transmitter with a range of up to 800m
Hydraulic High pressure hoses
Hydraulic Hand pump
Threaded rod to allow varying heights
Additional threaded rod to increase the height
Hose nozzle equipped with quick coupling that can be detatched from the Padeye tester for transport
Easily assembled and disassembled for transport and replacing parts

Spec		
Battery Type & Lifespan - 8 x AA 1.5V @ 80 hours +		
Safety Factor - 4:1		
IP Rating - IP65		
Stroke - Variable with adjustable threaded length		
Proof loaded - 125%		
Calibration - <1% of FSD, valid for 12 Months		
Warranty - 12 Months		
Five Pins and Collar Sets -	10te Tester	30te Tester
	3.25te	9.5te
	4.75te	12te
	6.5te	13te
	8.5te	17te
	10te	30te



LMS Load Cell Data Logging

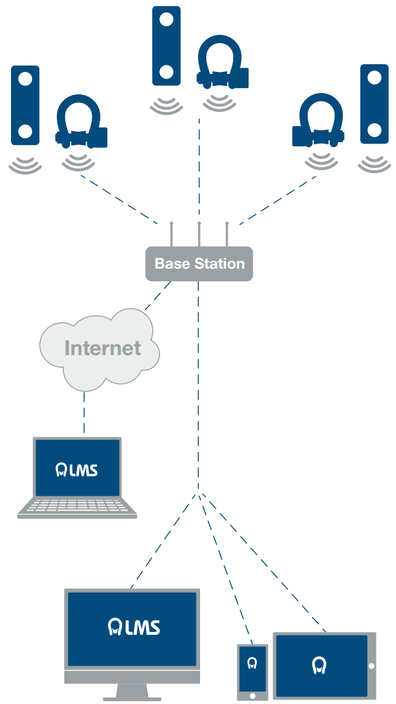
LMS-LOG100 Advanced data logging software provides real-time monitoring of up to 100 load cell devices simultaneously.

Quick and easy to remotely access your data on computer, tablet & smart phone via web browser. Export data in standard JSON or CSV formats with customisable reporting to suit your needs.

Options

- Wireless & Internal Antenna
- Matched Telemetry Displays
- Rent this item
- Cabled with 49.2ft flying cable
- Data Logging Software Available
- ATEX version

How it Works



Product Support


Load Shackle


Load Link


Line Rider Tensiometer


Compressive Load Cell


Load Pin

Features

- Log data at timed intervals, manually (on demand), on entering & exiting a pre-set overload/underload, during an overload/underload.
- Visual display and audible alarm indicators for overload/underload conditions as well as loss of communication
- Display live data readings on a visual graphic of your application (picture/drawing/schematic)
- Display numeric and graph data
- Units of measurement selectable to match load cell
- Built in web server
- Defined algorithms and maths functions
- Works with USB base station
- Windows 8, 7, Vista & XP compatible
- Supplied pre-installed on computer with or without display screen
- System can be installed on existing computers

Use in conjunction with LMS handheld displays

7

PROLIFT
HANDLING LTD

Height Safety Solutions and Lifelines

KRATOS SAFETY Safety Harnesses

FA 10 10 500

Body harness 2 attachment points including one on sternal strap

- Attachment Elements - 1 chest attachment D-Ring and a Dorsal attachment D-Ring for fall arrest.
- Compliance - Conforms to EN 361:2002
- Size: Universal
- Weight: 1.25kg
- Strap material: Polyester
- Buckles material: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 20 100

Harness FLY'IN 2

- Attachment Elements - 2 Ideally Positioned Chest attachment textile loops and a Dorsal attachment D-Ring for Fall Arrest. 2 lateral D- Rings for Work Positioning.
- Compliance - Conforms to EN 361:2002 and EN 358:2018
- Size: S - L.
- Weight: 2.27kg.
- Strap material: polyester.
- Buckles material: steel.
- HS Code: 63079098.
- User maximum weight Limit: 140kg.

FA 10 10 800

Body Harness 1 attachment point

- Attachment Elements - Dorsal attachment D-Ring for fall arrest
- Compliance - Conforms to EN 361:2002
- Size: Universal
- Weight: 1.01kg
- Strap material : Polyester
- Buckles material: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 20 101

Harness FLY'IN 2

- Attachment Elements - 2 Ideally Positioned Chest attachment textile loops and a Dorsal attachment D-Ring for Fall Arrest. 2 lateral D- Rings for Work Positioning.
- Size: L - XXL
- Weight: 2.27kg
- Strap material: polyester
- Buckles material: aluminium
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 10 600

Body harness 2 attachment points with a rescue extension strap

- Attachment Elements - 1 sternal attachment D-Ring and a dorsal attachment D-Ring for fall arrest, a rescue extension strap with top D-Ring for rescue.
- Compliance - Conforms to EN 361:2002 and EN 1497: 1996
- User maximum weight Limit: 140kg.

FA 10 20 201

Harness FLY'IN 3

- Attachment Elements - 1 Dorsal & 1 Sternal D-Ring for Fall Arrest, 1 Ventral D-Ring at waist level in front for Rope Access & 2 lateral D-Rings at waist level on the sides for Work Positioning.
- Compliance - Conforms to EN 361:2002, EN 358:2018 & EN 813:2008
- Size: L - XXL
- Weight: 2.26kg
- Strap material: Polyester
- Buckles material: Aluminium
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 20 500

Body harness 2 attachment points with a work positioning belt

- Attachment Elements - 1 sternal attachment D-Ring and a Dorsal attachment D-Ring for fall arrest, 2 lateral D-Rings for work positioning.
- Compliance - Conforms to EN 361:2002 & EN 358:2018.
- Size: Universal
- Weight: 1.95kg
- Strap material: Polyester
- Buckles material: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 20 200

Harness FLY'IN 3

- Attachment Elements - 1 Dorsal & 1 Sternal D-Ring for Fall Arrest, 1 Ventral D-Ring at waist level in front for Rope Access & 2 lateral D-Rings at waist level on the sides for Work Positioning.
- Compliance - Conforms to EN 361:2002, EN 358:2018 & EN 813:2008
- Size: S - L
- Weight: 2.26kg
- Strap material: Polyester
- Buckles material: Aluminium
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 30 200

REFLEX 1, Body harness 2 attachment points with a yellow high visibility work vest

- Vest in polycotton (240g/m²)
- Attachment Elements - 2 chest attachment textile loops and a dorsal attachment D- Ring for fall arrest.
- Size: Universal
- Weight: 1.45kg
- Strap material: Polyester
- Buckles material: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 11 701

SPEED'AIR 2 - Full body harness 2 attachment points

- Attachment points - 1 Dorsal & 1 Sternal D-Ring for fall arrest.
- Compliance: EN 361:2002
- Size: M-L
- Weight: 1.60 kg
- Straps material: Polyester
- Buckles and D-rings material: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 11 401A

Harness for work in confined spaces

- Compliance: EN361:2002, EN 1497:2007
- Size: L-XXL
- Weight: 1,85 kg
- Material: Strap: Polyester with water, oil & dirt-repellent coating
- Attachment D-rings (dorsal and sternal): Aluminium
- Other buckles, D-ring on extension strap: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 11 702

SPEED'AIR 2 - Full body harness 2 attachment points

- Attachment points - 1 Dorsal & 1 Sternal D-Ring for fall arrest.
- Compliance: EN 361:2002
- Size: L-XXL
- Weight: 1.60kg
- Straps material: Polyester
- Buckles and D-rings material: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

KRATOS SAFETY Safety Harnesses

FA 10 10 501A

Body harness 2 attachment points including one on sternal strap, with automatic buckles

- Attachment Elements - 1 chest attachment D-Ring and a Dorsal attachment D-Ring for fall arrest.
- Compliance - Conforms to EN 361:2002.
- Size: L-XXL
- Weight: 1.53kg
- Strap material: Polyester
- Buckles material: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

FA 10 11 400A

Harness for work in confined spaces

- Designed for a use in confined spaces, especially in the sanitation and drinking water distribution industries.
- Compliance: EN361:2002, EN 1497:2007
- Size: S-L
- Weight: 1,75kg
- Material: Straps: Polyester with water, oil & dirt-repellent coating
- Attachment D-rings (dorsal and sternal): Aluminium
- Other buckles, D-ring on extension strap: Steel
- HS Code: 63079098
- User maximum weight Limit: 140kg.

KRATOS SAFETY Safety Lanyards

FA 40 50 015

Restraint Kernmantle Rope Lanyard

- Length: 1.50mtr
- Connectors: Without connector
- Breaking strength: 22 kN
- Conforms to: EN354:2010
- HS Code: 56090000
- Made up of 11mm diam. polyamide kernmantle rope

FA 40 90 220

Work Positioning Kernmantle Rope Lanyard with ring adjuster

- Maximum length: 2mtr
- Connectors: 1 steel screw-locking karabiner FA 50 101 17, 1 steel snap hook FA 50 202 17
- Conforms to: EN358:1999
- HS Code: 56090000
- Made up of 11mm diam polyamide kernmantle rope
- Forged alloy steel ring adjuster

FA 30 50 020

Energy absorbing Kernmantle Rope Lanyard

- Length: 1.80mtr
- Connectors: Without connector
- Conforms to: EN355:2002
- HS Code: 5609 00 90
- Energy absorber in 35mm wide webbing to reduce the impact of the fall (less than 6 kN)
- Made up of 11mm diam polyamide kernmantle rope lanyard

FA 40 90 120

Work Positioning Webbing Lanyard with ring adjuster

- Maximum length: 2mtr
- Connectors: 1 steel screw-locking karabiner FA 50 101 17 and 1 steel snap hook FA 50 202 17
- Conforms to: EN358:1999
- HS Code: 5609 00 90
- Made up of 30mm polyester webbing

FA 30 30 418

Energy absorbing Webbing Lanyard

- Length: 1.80mtr
- Connectors: 1 steel screw-locking karabiner FA5010117 and 1 steel scaffold hook FA5020755 at the ends
- Conforms to: EN355:2002 and tested as per VG11 of PPE Directive 89/686/EEC
- HS Code: 5609 00 90
- Energy absorber in 35mm wide webbing to reduce the impact of the fall (less than 6 kN)
- Made up of 30mm wide polyester webbing lanyard

FA 40 90 340

Work Positioning Kernmantle Rope Lanyard with grip adjuster

- Maximum length: 4mtrs
- Connectors: 1 steel screw-locking karabiner FA 50 101 17 and 1 steel snap hook FA 50 202 17
- Conforms to: EN358:1999
- HS Code: 56090000
- Made up of 12mm diam polyamide kernmantle rope

FA 30 61 015

Forked energy absorbing Kernmantle Rope Lanyard

- Length: 1.50mtr
- Connectors: 1 green aluminium hook at one end and 2 green aluminium scaffold hooks at the other ends
- Conforms to: EN355:2002 and tested as per PPE-R/11.063
- HS Code: 5609 00 90
- Energy absorber in 44mm wide webbing to reduce the impact of the fall (less than 6 kN)
- Made up of 12mm diam polyamide kernmantle rope lanyard, specially designed to withstand sharp edges

FA 30 50 315

Energy absorbing Kernmantle Rope Lanyard

- Standard(S): EN355: 2002
- Material: Lanyard: Polyamide, Absorber: Polyester And Polyamide, Connectors: Steel
- PPE / NO PPE: PPE
- Size: Wide Absorber 44mm, Lanyard Kernmantle Rope Diameter 12mm, Length Of The Set 1.5mtrs
- Buckle(S): Boucles Cossées
- Protection: Loop With Thimble, Sewings With A Strong Covering Sleeve
- Connector: 1 Steel Scaffold Hook, Automatic Locking Opening 55mm, 1 Steel Screw-Locking Karabiner Opening 17mm

FA 30 61 420

Forked energy absorbing Kernmantle Rope Lanyard

- Length: min. 1.40m, maxi 2m
- Weight: 1.88kg.
- Max. user weight: 140kg.
- Connectors: 1 aluminium hook at one end and 2 aluminium scaffold hooks at the other ends
- Conforms to: EN355:2002 and tested as per PPE-R/11.063
- HS Code: 5609 00 90
- Energy absorber in 45mm wide webbing to reduce the impact of the fall (less than 6 kN)
- Made up of 11mm diam polyamide kernmantle rope lanyard with a ring adjuster

FA 30 80 015

Energy absorbing expandable Lanyard

- Expanded length: 1.5mtr
- Relaxed length: 1.25mtr
- Connectors: 1 steel screw-locking karabiner at one end and 2 steel scaffold hooks at the other ends
- Conforms to: EN355:2002 and tested as per VG11 of PPE Directive 89/686/EEC
- HS Code : 5609 00 90
- Energy absorber in 35mm wide webbing to reduce the impact of the fall (less than 6 kN)
- Made up of 44mm wide polyester expandable webbing lanyard

KRATOS SAFETY Safety Lanyards

FA 30 40 018

Forked Energy absorbing Webbing Lanyard

- Energy absorber in 35mm wide webbing to reduce the impact of the fall (less than 6 kN)
- Made up of 30mm wide polyester webbing lanyard
- Length: 1.80mtr
- Connectors: 1 steel screw-locking karabiner FA5010117 at one end and 2 steel scaffold hooks FA5020755 at the other end
- Conforms to: EN355:2002 and tested as per VG11 of PPE Directive 89/686/EEC
- HS Code: 5609 00 90

FA 30 62 015

Forked energy absorbing Kernmantle Rope Lanyard with aluminium connectors

- Length: 1.50m
- Weight: 1.79kg
- Max. user weight: 140 kg.
- Connectors: 1 aluminium screw-locking karabiner, ref. FA 50 103 22 at one end and 2 aluminium scaffold hooks, ref. FA 50 208 60 at the other ends
- Compliance: EN355:2002 and tested as per PPE-R/11.063
- HS Code: 5609 00 90
- Energy absorber in 45mm wide webbing to reduce the impact of the fall (less than 6 kN)
- Made up of 11 mm diam polyamide kernmantle rope lanyard

FA 40 50 310

Restraint Kernmantle Rope Lanyard

- Length: 1mtr
- Connectors: 1 steel snap hook FA5020217 at one end and 1 steel scaffold hook FA5020755 at the other end
- Breaking strength: 22 kN
- Conforms to: EN354:2010
- HS Code: 56090000
- Made up of 12mm diam polyamide kernmantle rope

KRATOS SAFETY Retractable Fall Arrester Blocks

FA 20 50 202

Olympe-S2, Retractable fall arrester with polymer casing with webbing lanyard Lg. 2m

- Maximum length: 2mtrs.
- Webbing width: 21mm.
- Weight: 1.00kg.
- Minimum breaking strength> 15 kN
- HS Code: 84798997
- Compliance: EN360:2002

FA 20 40 210

HELIXON-S wire rope, retractable fall arrester 10m

- Weight: 4.82 kg.
- Compliance: EN 360:2002, VG11.060.
- Minimum breaking strength > 12 kN.
- Approved for a user with a max. weight of 140 kg in vertical use and in horizontal use.
- HS Code: 84798997

FA 20 40 220

HELIXON wire rope, retractable fall arrester 20m, for vertical use only

- Internal braking mechanism to reduce the fall arrest force to less than 6 kN.
- Swivel and FA 50 101 17 connector at anchorage end.
- Weight: 7.43kg.
- HS Code: 84798997
- Compliance: EN 360:2002.
- Minimum breaking strength > 12 kN.

FA 20 50 406

HELIXON-S webbing, retractable fall arrester 6m

- Internal braking mechanism to reduce the fall arrest force to less than 6 kN.
- Swivel and FA 50 101 17 at anchorage end.
- Weight: 3.21 kg.Compliance: EN 360:2002, VG11.060.
- Minimum breaking strength > 15 kN.
- HS Code: 84798997

FA 20 30 302

Retractable fall arrester with webbing lanyard

- Maxi length: 2.50mtr
- Webbing width: 50mm
- Weight: 1,70kg
- Breaking strength: > 15 kN
- Connector: 1 steel snap hook FA 50 202 17 and 1 steel scaffold hook FA 50 207 55
- HS Code: 84798997
- Conforms to: EN360:2002

FA 20 50 002

Double aluminium casing with webbing lanyards

- Maxi length: 2mtr
- Webbing width: 25mm
- Weight: 2.80kg
- Breaking strength: > 15 kN
- Connectors: 2 steel scaffold hooks FA 50 207 55
- HS Code: 84798997
- Conforms to: EN360:2002

FA 20 40 120

OLYMPE cable, retractable fall arrester 20m with integrated rescue winch

- Wire rope diametre: 4.5mm
- Length: 20mtr
- Weight: 9.20kg
- Breaking strength: > 12 kN
- HS Code : 84798997
- Conforms to: EN360:2002, EN1496:2017 class B, ATEX Directive 2014/34/EU.

FA 20 50 302

Olympe-S2, Retractable fall arrester with polymer casing and webbing lanyard Lg. 2m

- Maximum length: 2 mtrs.
- Webbing width: 21 mm.
- Weight: 1.250 kg.
- Minimum breaking strength: > 15 kN
- Connectors: 1 steel screw-locking karabiner FA 50 101 17 and 1 aluminium rebar hook FA 50 208 60.
- HS Code: 84798997
- Compliance: EN360:2002

FA 20 50 406B

HELIXON webbing, retractable fall arrester 6m, for vertical use only

- Internal braking mechanism to reduce the fall arrest force to less than 6 kN.
- Swivel and FA 50 101 17 at anchorage end.
- Weight: 2.21kg.
- Compliance: EN 360:2002.
- Minimum breaking strength > 15 kN.
- HS Code: 84798997

KRATOS SAFETY Kits, Connectors and Accesories

FA 90 11 500

Backpack

- Material: Oxford Polyester 600x600D.
- Dimensions: 26 x 12 x 40 cm.
- Total capacity: 12 L.
- Weight: 0.20kg.
- Maximum load: 5kg.
- Padded shoulders, back and bottom.
- Adjustable shoulder straps.
- Carrying handle.
- HS code: 42029298

FA 90 10 600

Multi use cylindrical PVC backpack

- Dimensions: 62cm x 35cm
- Total capacity: 58 liters
- Max. loading weight: 28g.
- Two inside pockets & 16 loops to attach accessories.
- Padded shoulder straps, with reflective strips.
- HS code: 42029298

FA 10 90 100

Suspension Trauma Relief Strap

- Size: Universal
- Weight: 0,086kg
- Strap material: Polyester
- Buckle material: Steel
- HS Code: 5609 00 90

FA 80 00 100

Restraint at Work kit

Composition of the kit FA 80 001 00:

- A body harness FA 10 102 00
- A Kernmantle rope lanyard length 1.50m FA 40 500 15
- Two steel screw karabiners FA 50 101 17
- A jute bag is supplied with this kit.
- HS Code : 6307 20 90

FA 80 11 300

Confined spaces kit

This kit is composed of:

- Body harness with 2 attachment points and an evacuation strap, ref. FA 10 106 00
- OLYMPE cable, retractable fall arrester 20 m with integrated rescue winch, ref. FA 20 401 20
- Tripod (max. height 7 ft.) for access in confined spaces, ref. FA 60 001 00
- Tripod adaptation kit for 20m retractable fall arrester with integrated rescue winch, ref. FA 60 001 03
- Work and rescue winch, steel wire rope lg. 20m, ref. FA 60 003 20
- 7ft. Tripod storage and transport bag, ref. FA 90 108 00
- Weight: 34.34kg

FA 80 00 200

Scaffolder Kit

Composition of the kit FA 80 002 00:

- A body harness FA 10 103 00
- An energy absorbing webbing lanyard length 1.80mtr FA 30 304 18
- A jute bag is supplied with this kit.
- HS Code: 6307 20 90

FA 80 00 500

Kit for steel construction and crane boom

Composition of the kit FA 80 005 00:

- A body harness FA 10 105 00
- A forked energy absorbing kernmantle rope lanyard length 1.50mtr FA 30 600 15
- A backpack FA 90 115 00 is supplied with this kit
- HS Code: 6307 20 90

FA 50 10 117

Steel Screw-locking Karabiner

- Material: Steel
- Gate Opening: 18mm
- Breaking strength: 25 kN
- Conforms to: EN362: 2004 Classe B
- HS Code: 8308 10 10

FA 50 20 755

Steel Scaffold Hook

- Material: Forged Steel
- Gate Opening: 50.8mm
- Breaking strength: 23 kN
- Conforms to: EN362: 2004 Class T
- HS Code: 8308 10 10

FA 50 30 123

Steel Triple-locking Karabiner

- Materia: Steel
- Gate Openin: 22mm
- Breaking strength: 40 kN
- Conforms to: EN 362:2004 Class B
- HS Code: 8308 10 10

FA 50 30 222

Aluminium Triple action locking Karabiner

- Material: Aluminium alloy
- Gate Opening: 21mm
- Breaking strength: 23 kN
- Conforms to: EN 362:2004 Class B, EN 12275 Class B/H.
- HS Code: 7616 10 00

KRATOS SAFETY Safety Lifelines & Tool Lanyards

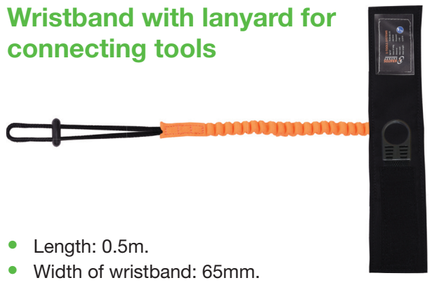
FA 60 00 700

Temporary Lifeline

- Standard(S): EN 795:2012 Type C & TS 16415:2013 Type C
- Material: Polyester Webbing
- PPE / NO PPE: No PPE
- Size: Length Adjustable From 2M To 20M
- Connector: Provided With 2 Steel Screw-Locking Karabiners FA 50 101 17

TS 90 00 103

Wristband with lanyard for connecting tools



- Length: 0.5m.
- Width of wristband: 65mm.
- Material: Polyester.
- Weight: 0.038kg.
- Length of the cord: 120mm. Has a pull-cord blocker.
- Has a plastic ring (inside diam. 22mm).
- HS Code: 56090000

TS 90 00 100

Stretch lanyard for connecting tools

- Max. length: 1.3m.
- Width: 14mm.
- Material: Polyester.
- Weight : 0.044kg.
- Has an Aluminium karabiner, gate opening 15mm.
- Length of the cord: 340 mm. Has a pull-cord blocker.
- HS Code: 63079010

TS 90 00 102

Forked stretch lanyard for connecting tools

- Max. length: 1.30m.
- Width: 14mm.
- Material: Polyester.
- Weight: 0,066kg.
- Has an Aluminium karabiner, gate opening 15 mm.
- Length of the cord: 340mm. Has a pull-cord blocker.

FA 60 00 703

2 User Horizontal Temporary Lifeline

- Temporary and reusable lifeline specially designed to provide a suitable and safe anchorage to 1 or 2 users at the same time while working on an ISO container
- Material:
- Tensioner and connectors: Steel
- Rope: Polyester
- Weight: 9.27kg.
- Compliance: Regulation (EU) 2016/425 Annex II using EN 795:2012, TS 16415:2013 Type C.
- Static strength as per EN 795:2012: 18 kN.
- Breaking strength: 23 kN.
- HS Code: 6307909899

KRATOS SAFETY Confined Space And Rescue Equipment

FA 60 00 100

Tripod with 7 feet maxi height for access in confined spaces

- Adjustable height: from 1.15m to 2.15m
- Wheelbase: from 1.08m to 1.62m
- Weight:14.3kg
- Maximum Load Capacity: 500kg under head/250kg on leg
- Conforms to: EN795:2012 type B, ATEX Directive 2014/34/EU, Machinery Directive, EN 1808
- HS Code: 7616999099
- Tested for 4 users.
- HS Code: 73269098

FA 60 00 320

Rescue and work winch

- Minimum working load: 60kg.
- Safe working load (as per EN1496): 135 kg.
- Maximum working load (as per Machinery Directive): 250kg.
- Length: 20mtr
- Galvanized cable diam: 4,8mm
- Conforms to: Machinery Directive 2006/42/EC, EN 1496:2017 Class A, EN 13157:2004, ATEX Directive 2014/34/EU.
- HS Code: 8425 19 20.

FA 70 11 120

RES-Q 2, downward evacuation device, 20

- Controlled descent speed: < 2m / sec, regardless the weight (max. weight 141kg).
- Maximum descent height: 250m.
- Brake system: Automatic and redundant.
- Maximum no. of users: 1 user - 141kg.
- Inspection: Once a year or every 2000m of rope.

FA 70 20 120

LIFT RES-Q, evacuation and rescue device

- Compliance: PPE-R/11.115.
- Material: Webbing: polyester; Rungs reinforcement: aluminium; Rope: Polyamide; Karabiners: Steel.
- Length: Ladder: 6 m; Rope of the securing system: 7m.
- Weight: 3.88kg.
- Controlled descent speed: 1 m to 1.50 m/sec (depending on the weight), up to 225kg.
- Maximum descent height: 500m.
- Maximum lifting height: 500m.
- Maximum no. of users: 2 users - 225kg.

FA 70 02 906R

Webbing rescue ladder

- Compliance: PPE-R/11.115.
- Material: Webbing: polyester; Rungs reinforcement: aluminium; Rope: Polyamide; Karabiners: Steel.
- Length: Ladder: 6m; Rope of the securing system: 7m.
- Weight: 3.88kg.

KRATOS SAFETY Anchor Points Mobile & Permanent

FA 60 00 512

Anchorage Round Sling

- Made up of 20 mm wide polyester webbing.
- Length: 1.20 mtr
- Conforms to: EN795:2012 Type B, EN 566:2017.
- Static strength (as per EN 566): > 22 kN
- Min. breaking strength: 30 kN.
- HS Code: 63079098

FA 60 00 520

Anchorage Round Sling

- Made up of 20 mm wide polyester webbing.
- Length: 2 mtrs.
- Conforms to: EN795:2012 Type B, EN 566:2017.
- Static strength (as per EN 566): > 22 kN.
- Min. breaking strength: 30 kN.
- HS Code: 63079098

FA 60 00 530

Anchorage Round Sling

- Made up of 20 mm wide polyester webbing.
- Length: 3 mtrs.
- Conforms to: EN795:2012 Type B, EN 566:2017.
- Static strength (as per EN 566): > 22 kN.
- Min. breaking strength: 30 kN.
- HS Code: 63079098

FA 60 00 515

Anchorage Round Sling

- Made up of 20 mm wide polyester webbing.
- Length: 3 mtrs.
- Conforms to: EN795:2012 Type B, EN 566:2017.
- Static strength (as per EN 566): > 22 kN.
- Min. breaking strength: 30 kN.
- HS Code: 63079098

FA 60 00 803

Beam Anchor Trolley

- Anchoring on D-ring, inner diameter 55 mm, attached to the trolley bar.
- Material: Aluminium and stainless steel. Attachment D-ring made of forged steel.
- Dimensions: Designed to be installed on beams whose width can vary from 80 to 250mm.
- Minimum breaking strength: > 23 kN.
- Compliance: EN795:2012 Type B, ATEX Directive 2014/34/EU
- Static strength as per EN795:2012 Type B: 12 kN.
- HS code: 8308 10 10
- Weight: 3.90kg.

FA 60 00 800

Beam Anchor

- Materials: aluminium & brass
- Net weight: 1850 gm
- Breaking strength: greater than 23 kN
- Conforms to: EN795:2012 Type B, ATEX Directive 2014/34/EU
- HS Code: 7616 9990 99
- Designed for beams whose width ranges from 100 to 350mm.

FA 60 00 900

Aluminium anchor point

- Compact, highly corrosion resistant.
- Can be fixed on a concrete structure (min. width: 125 mm), or on a metal structure.
- Designed to be used in the 3 directions, by 3 users maxi.
- Material: Aluminium.
- Weight: 0.33 kg.
- Compliance: EN 795:2012 Type A, TS 16415:2013 Type A.
- Static strength as per EN 795:2012: 12 kN.
- Min. breaking strength: 23 kN.
- HS code: 7616 9990 99

FA 60 01 800

Concrete anchor

- Designed to be installed in concrete very quickly thanks to a pressure button that wedges the anchor point int structure.
- A hole of diam. 18-19 mm and depth 110 mm is needed to be installed into concrete.
- Material: Aluminium, Steel & Stainless steel
- Minimum breaking strength: 12 kN
- Net weight: 0,150 kg
- Conforms to: EN 795:2012 Type B
- HS Code : 73269098

FA 60 01 401

Vertical Anchorage D-Bolt

- Designed to be installed on vertical surfaces (fastening not included).
- Material: Forged Steel
- Net weight: 370gm
- Compliance: EN 795:2012 Type A
- Static strength: 12 kN.
- Minimum breaking strength : 23 kN
- Tested for 4 users.
- HS Code : 73269098

FA 60 02 710

Flange anchor (M10)

- Single anchor point, designed to be fixed on walls, ceilings or rooftops.
- Ideal for use with an anchorage telescopic pole.
- Material: Stainless steel.
- Positioning through 2 Stainless steel M10 fastenings in steel structures, or concrete.
- Compliance: EN795:2012 Type A.
- Static resistance (as per EN 795:2012): 12 kN.
- Minimum breaking strength: 23 kN.
- Weight: 0.06kg

FA 60 02 712

Flange anchor (M12)

- Single anchor point, designed to be fixed on walls, ceilings, rooftops or steel structures.
- Ideal for use with an anchorage telescopic pole.
- Material: Stainless steel.
- Positioning through 2 Stainless steel M12 fastenings in steel structures, or concrete.
- Compliance: EN795:2012 Type A.
- Static resistance (as per EN 795:2012): 12 kN.
- Minimum breaking strength: 23 kN.
- Weight: 0.06kg

KRATOS SAFETY Head Lamps

HL 10 00 100

RAINBOW 1 headlamp

- Light output: 350 Lumens.
- Beam distance: 80m.
- Beam type: Mixed.
- Watertightness: IP64.
- Battery type: Li-Po (supplied).
- Min/max running time: 2h30 / 8h.
- Charging time: 2h30.
- Weight: 75g.
- Compliance: Directive 2014/30/EU, 2001/95/EU, 2011/65/EU, 2012/19/EU
- HS code: 85131000

HL 10 10 100

NEWTON 2 headlamp

- Light output: 400 Lumens.
- Beam distance: 120m.
- Beam type: Mixed.
- Watertightness: IP65.
- Battery type: 3x AAA batteries (supplied).
- Min/max running time: 4h / 60h.
- Weight: 105g.
- Compliance: Directive 2014/30/EU, 2001/95/EU, 2011/65/EU, 2012/19/EU
- HS Code: 85131000

HL 10 10 200

NEWTON 3 headlamp

- Light output: 400 Lumens.
- Beam distance: 80m.
- Beam type: Mixed.
- Watertightness: IP65.
- Battery type: Li-Po (fournie) or 3x AAA batteries (not supplied).
- Min/max running time: 2h20 / 18h (Li-Po) ou 3h30/35h (piles AAA).
- Weight: 100g.
- Compliance: Directive 2014/30/EU, 2001/95/EU, 2011/65/EU, 2012/19/EU
- HS Code: 85131000

HL 10 10 300

NEWTON 4 headlamp

- Light output: 600 Lumens.
- Beam distance: 80m.
- Beam type: Large.
- Watertightness: IP65.
- Battery type: Li-Ion (supplied).
- Min/max running time: 5h / 30h.
- Weight: 175g.
- Compliance: Directive 2014/30/EU, 2001/95/EU, 2011/65/EU, 2012/19/EU
- HS Code: 85131000

HL 10 10 200

NEWTON X-0 headlamp

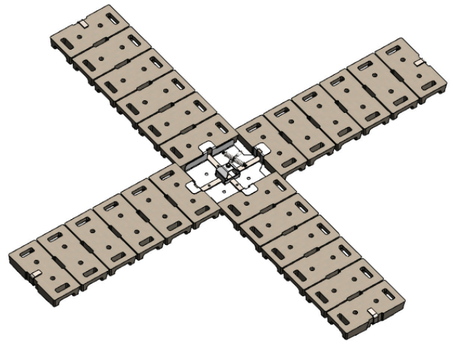
- Light output: 216 Lumens.
- Beam distance: 100m.
- Beam type: Mixed.
- Watertightness: IP67.
- Battery type: 3x AAA batteries (supplied).
- Min/max running time: 5h / 12h.
- Weight: 160g.
- Compliance: Directive 2014/30/EU, 2001/95/EU, 2011/65/EU, 2012/19/EU
- HS Code : 85131000

Tractel PART OF ALIMAK GROUP Mobifor

Deadweight Anchor Point for installation on flat roof and fall risk areas.

EN795-E

The Mobifor is a revolutionary, deadweight anchoring system, for installation on flat roofs and fall risk areas. The set consists of 24, steel-reinforced, concrete blocks, positioned on four steel arms. The arms are connected at the centre by a joining plate equipped with a rotary anchor point with an energy dissipater.

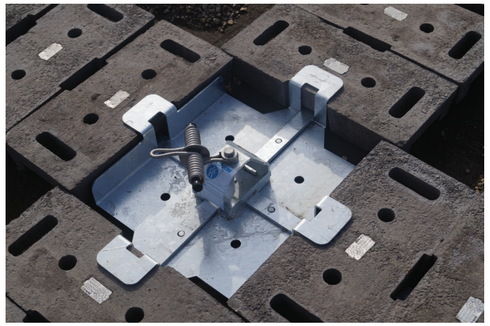


Specification

- 4 arms made of galvanised steel.
- 24 concrete weights.
- Rotary anchor point.
- Conforms to standard EN 795-E.

No tools required

- The connecting plate is set up with no need to drill holes in the roof.
- The arms click easily into the plate.
- Weights automatically interlock.



Easy to set up

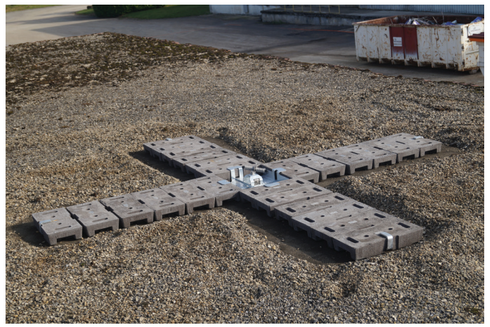
- Takes less than 5 minutes to set up.
- The system uses ergonomic weights with large handles.
- Overall weight is distributed across 24 separate weights making it easy to lift and carry.
- The weights are easy to install on the arms.

Enhanced fall protection

- 360 Degree movement possible thanks to the rotary anchor point.
- Compatible with a variety of fall arrest devices

Extremely versatile

- Adapts to all horizontal roofs meeting european requirements.
- Its weight and volume allows for installation in places where traditional anchoring systems cannot be installed.
- Can be placed on a slope with an inclination of up to 5 degrees.
- Can be installed without penetrating the roof surface.
- Can be installed on the following roof surfaces: EPDM, bitumen, pvc.



Tested to stop the fall of 1 user, 100kg.

Model	Weight [kg]	Product Code
Mobifor mobile anchor point	394	279409

Tractel Temporary Lifelines

Type B anchor: mobile anchors.

Tempo 2 - Temporary Lifeline

EN795-CEN/TS16415

Product Code: 206018

Tempo 2 is a temporary lifeline, easy and quick to install when there are two anchoring points offering sufficient resistance (28 kN). Lightweight, it allows total freedom of horizontal movement.

The Tempo 2 lifeline can be installed on the ridge tiling of a roof or onto a metal structure.

- Synthetic fibre webbing straps, adjustable from 5 to 20m.
- Can be used by 2 people.
- 7 metres clearance.
- Supplied with 2 AS30S webbing strap rings, 2 MR9 connectors and a shoulder bag.

Tempo 3 - Braided Rope - Temporary Lifeline

EN795-CEN/TS16415

Product Code: 207068

Tempo 3 is a compact, temporary lifeline, and is the fastest, most efficient lifeline available on the market.

Using a static rope, N.G.R reinforced, and a tensioning system, the tempo 3 allows for simultaneous use by 3 users. This lifeline offers the possibility of setting up a temporary lifeline with a maximum length of 18 metres between two anchor points of sufficient strength (15 kN).

- Static rope line, N.G.R reinforced, adjustable from 5 to 18m.
- Supplied with two AS30S webbing strap rings, 2 M10 connectors and a shoulder bag.

Tirsafe Wire Rope Temporary Lifeline

EN795-CEN/TS16415

Product Code: 279409/276149

Tirsafe T3 is a temporary lifeline that is easy and quick to install when there are two anchoring points offering sufficient support (30 kN). It allows for total freedom of horizontal movement. Adjustable from 5 to 30m.

The Tirsafe T3 temporary lifeline includes:

- 1 anchoring point with Tirsafe T3 energy shock-absorber.
- 1 tirfor T3 cable winch.
- 2 x 2 metre slings.
- The Tirsafe T3 temporary lifeline guarantees the safety of 3 people.

Model	Description	Product Code
Tirsafe kit	with a 20m, 8.3 mm diameter cable	279409
Tirsafe kit	with a 30m, 8.3 mm diameter cable	276149

Tractel Permanent Lifelines

EN 795-C:2012, CEN/TS 16415:2013

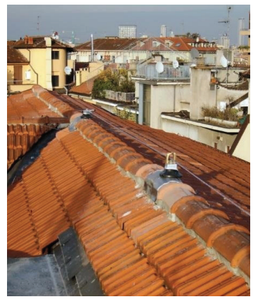
Permanent lifelines are part of fall arrest systems when they are used as the anchor solutions. As an anchor solution, their certification is related to the norm EN 795 of 2012 for single user and CEN/TS 16415 of 2013 for multi users.

Permanent lifelines are designed to stop the fall of one (or more, as specified below) users and to absorb part of the energy transmitted to the supporting structure. When used as a part of a fall arrest system, the user must always wear a safety harness and a fall arrester with shock absorber limiting the impact of the fall to 600daN on his body.

Tractel offers a wide range of permanent lifelines including a rigid rail solution to suit best each application.

	Travsafe	Travrail	Travflex 2	Travsmart	Travspring	Travspring One
Intermediate anchor crossing (comfort of use)	Excellent away from the lifeline	Excellent away from the lifeline	Good away from the lifeline	Good away from the lifeline	Manual and near to the lifeline	Manual and near to the lifeline and disconnecting from the lifeline
Lifeline length	Up and above 200m		Up to 200m			
Frequency of use	Daily		Regular		Occasional	
Sliders availability	Standard, Opening, Rollsafe for overhead	Standard, Rolling rope access, Rope acces for wall	Bi-directional slider[3]		Not available	
Installation type Overhead	✓	✓	-	✓	-	-
Installation type Wall	-	-	-	✓	-	-
Distance between anchor[1]	30m	6m	15m			
Deflection of the lifeline[1] (Configuration: 5x15m, 1 user 150kg)	1,4 m (with bi material absorber ring 2.94m)	0m (with 6m between brackets)	3m	2.8m	2.8m	2.8m
Force on end anchor[1] (Configuration: 5x15m, 1 user 150kg)	High 28k N	Low 7 kN[2]	Lowest 6kN	Low 7 kN	Medium 10 kN	Medium 10 kN
Specific installation	Heavy structure	Standard structure	Lightweight structure	Standard structure		
Maximum of simultaneous user	1x150kg or 5x100kg	3x100 kg	2x150kg or 3x100kg	3x150kg or 5x100kg		
Main material	Stainless steel or galvanised steel	Aluminium	Stainless steel or galvanised steel			Galvanised steel

1 (depending on the specific configuration of the lifeline)
2 (irrelevant of the number of simulatenous user with max weight of 100 kg)
3 (switch from one side to the other side of the wire rope without disconnecting)



Tractel Travsafe

Twin cables lifeline.

EN795-C- CEN/TS16415

The new Travsafe lifeline is an evolution of the previous version. It complies with the European norm EN795-C and the CEN/TS16415 for multi-user. The Travsafe lifeline with its two cables is the most efficient and sophisticated lifeline on the market.

As an extension of Tractel High Capacity Range, the Travsafe lifeline is now certified for user weighing up to 150kg including all their equipment.

This lifeline is certified for a simultaneous use for a maximum of 5 users 100kg or 3 users 150kg.

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travsafe lifeline. All lanyards certified EN 355 can be used with the Travsafe lifeline.

Thanks to its specific design, the slider easily moves past the intermediate cable brackets, with no need for any manual intervention.

Two versions are now available:

- Travsafe with stainless steel shock absorber rings
- Travsafe with two-material shock absorber ring

These two Travsafe lifeline versions are designed for overhead, on wall or ground installations. The anchors can be installed on any structure or by using post interfaces. Intermediate anchors must be positioned no more than 15 meters apart.

When configured in stainless steel (anchors, wire ropes and absorber rings), the Travsafe offers the possibility to have a distance between anchors from **0.8m to 30m** in both single span and multi spans configuration.

The Travsafe is particularly well suited for long applications (over 200m). On overhead application, the Rollsafe slider ensures a smooth gliding of any fall arrester (including heavy self-retracting block) on the twin system.

HIGH CAPACITY RANGE 150 kg www.tractel.com

Tested to stop the fall of 3 users, 150kg OR 5 users, 100kg

Tractel Travflex 2

EN795-C- CEN/TS16415

The new Travflex 2 lifeline is an evolution of the previous version. It complies with the European norm EN795-C and the CEN/TS16415 for multi-user.

As an extension of Tractel High Capacity Range, the Travflex 2 lifeline is now certified for user weighing up to 150kg including all their equipment.

This lifeline is certified for a simultaneous use for a maximum of 3 users 100kg or 2 users 150kg.

Intermediate anchors must be positioned no more than 15 meters apart.

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travflex 2 lifeline. All lanyards certified EN 355 can be used with the Travflex 2 lifeline.

Travflex 2 is the dedicated Tractel lifeline for light structure. Combined with the universal plate, it can be installed on a large range of light structures such as steel deck, sandwich panel and standing seem.

The Travflex 2 lifeline is certified for the following installation: on a wall, on an inclined surface up to 15° or on the ground.

HIGH CAPACITY RANGE 150 kg www.tractel.com

Tested to stop the fall of 2 users, 150kg OR 3 users, 100kg

The kits Travflex 2 include two end anchors repectively in stainless steel or galvanised steel.

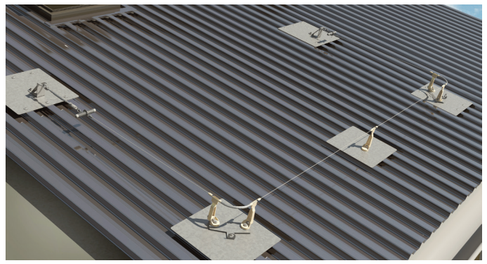
The Travflex 2 lifeline advantages:

Meets the user's needs:

- Choices of installations and uses (ergonomics).
- Automatic anchor crossing thanks to the travsmart slider.
- The user can work on either side of the lifeline without the need to disconnect (improved safety).
- Wire rope available in galvanized steel or stainless steel.

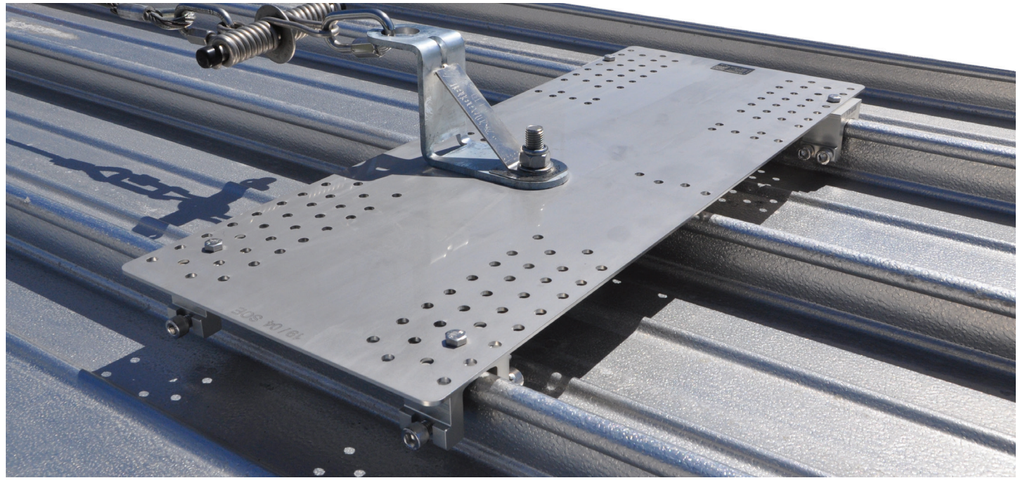
Meets the installer's needs:

- No special tools are required for the installation of the lifeline.
- Thanks to the wedge socket, the risk of the cable clamp nuts coming loose over time is fully eliminated.
- Quick and easy installation of the lifeline thanks to the design of the intermediate anchor.
- In the event of a fall, there is no need to fully dismantle the lifeline. Simply loosen the cable to remove and reinstall the failed intermediate supports (installation time reduced).



Tractel Travflex 2

Universal plate



Universal mounting plate for Travflex 2 on light structures

The universal plate is designed to be installed on light structures for our Travflex 2 lifeline and ringflex anchor point.

There are two versions availabe, depending on the intended use:

- Plate for extremity & intermediate bracket or anchor point.
- Plate for curved bracket.

The plate can be mounted on a wide range of roofs:

- Metal sheet roofing.
- Sandwich panel.
- Aluminium standing seam.

Depending on the application, the plate is supplied with a set of 4 clamps or a set of 12 rivets.

Model	Product Code
Extremity & intermediate universal plate in stainless steel	206888
Extremity & intermediate universal plate in galvanized steel	207788
Curve universal plate in stainless steel	206878
Kit 4 clamps + 1 bolt M16	232577
Kit 12 rivets + rubber sealing bands + 1 bolt M16	232587

Delivery

Every universal plate is supplied with the installation manual

Both the 4 clamp kit and the 12 rivet kit are delivered with 1x screw HM16, 2x M16 washers, 1x M16 locknut.

Tractel Travsmart

EN795-C- CEN/TS16415

The Travsmart lifeline complies with the European norm EN795-C and the CEN/TS16415 for multi-user.

As an extension of Tractel High Capcity Range, the Travsmart lifeline is now certified for user weighing up to 150kg incldiuing all their equipment.

This lifeline is certified for a simultaneous use for a maximum of 5 users 100kg or 3 users 150kg.

Intermediate anchors must be positioned no more than 15 meters apart.

In single span configuration (without intermediate anchor), Tractel has certified the travsmart lifeline with a maximum distance between end anchors of 30m!

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travsmart lifeline. All lanyards certified EN 355 can be used with the Travsmart lifeline.

Travsmart is the most polyvalent lifeline of Tractel' portfolio. The Travsmart lifeline is certified for the following installation: overhead, on a wall, on an inclined surface up to 15°, on the ground or on a post.

Tested to stop the fall of 3 users, 150kg OR 5 users, 100kg

The Travsmart lifeline advantages:

Meets the user's needs:

- Choices of installations and uses (ergonomics).
- Automatic anchor crossing thanks to the travsmart slider.
- The user can work on either side of the lifeline without the need to disconnect (improved safety).
- Wire rope available in galvanised steel or stainless steel.

Meets the installer's needs:

- No special tools are required for the installation of the lifeline.
- Thanks to the wedge socket, the risk of the cable clamp nuts coming loose over time is fully eliminated.
- Quick and easy installation of the lifeline thanks to the design of the intermediate anchor.
- In the event of a fall, there is no need to fully dismantle the lifeline. Simply loosen the cable to remove and reinstall the failed intermediate supports (installation time reduced).

Tractel Travspring

EN795-C- CEN/TS16415

The Travspring lifeline complies with the European norm EN795-C and the CEN/TS16415 for multi-user.

As an extension of Tractel High Capcity Range, the Travspring lifeline is now certified for user weighing up to 150kg including all their equipment.

This lifeline is certified for a simultaneous use for a maximum of 5 users 100kg or 3 users 150kg.

When configured with one INRS absorber, intermediate anchors can be positioned from **1.8 to 28.5m**. In a configuration with 2 INRS absorbers, intermediates must be positioned no more than 15 meters apart.

In single span configuration (without intermediate anchor), Tractel has certified the Travspring lifeline with a maximum distance between end anchors of **30m!**

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travspring lifeline. All lanyards certified EN 355 can be used with the Travspring lifeline.

Travspring is a simple yet engineered solution. It is designed to be proximity lifeline as the intermediate anchor must be crossed manually.

The Travspring lifeline is certified for the following installation: on a wall, on an inclined surface up to 15°, on the ground or on a post. In addition, in a single span configuration, Travspring can be installed overhead.

Tested to stop the fall of 3 users, 150kg OR 5 users, 100kg

The Travspring lifeline advantages:

Meets the user's needs:

- Proximity lifeline
- Choices of installations and uses (ergonomics).
- The user can work on either side of the lifeline without the need to disconnect (improved safety).
- Wire rope available in galvanised steel or stainless steel.

Meets the installer's needs:

- No special tools are required for the installation of the lifeline.
- Thanks to the wedge socket, the risk of the cable clamp nuts coming loose over time is fully eliminated.
- Quick and easy installation of the lifeline thanks to the design of the intermediate anchor.
- In the event of a fall, there is no need to fully dismantle the lifeline. Simply loosen the cable to remove and reinstall the failed intermediate supports (installation time reduced).

Tractel Travspring One

EN795-C- CEN/TS16415

The new Travspring One lifeline is a derivative of the Travspring lifeline. It complies with the European norm EN792-C:2012 and the CEN/TS16415:2013 for multi-user.

It is designed as a simple and inexpensive lifeline for occasional use. The system requires a double lifeline to pass the intermediate supports and curves.

150kg High Capacity Range

As an extension of Tractel High Capcity Range, the Travspring One lifeline is now certified for user weighing up to 150kg including all their equipment. This lifeline is certified for a simultaneous use for a maximum of 5 users 100kg or 3 users 150kg. In order to comply with the 150 kg classification, the harness and connection (lifelines, automatic fall arrest devices or guided fall arresters with flexible anchor line) must all have a 150 kg classification.

Specifications

Intermediate anchors must be positioned no more than 15 meters apart. In single span configuration (without intermediate anchor), Tractel has certified the Travspring lifeline with a maximum distance between end anchors of 30 meter.

Benefits

- Thanks to the wedge socket, the risk of the cable clamp nuts coming loose over time is fully eliminated.
- No special tools are required for the installation of the lifeline.
- Few components to install.

Tested to stop the fall of 3 users, 150kg OR 5 users, 100kg

Tractel Travrail

Horizontal fall protection for attachment to a slider

EN 795-D

Travrail is a horizontal rigid anchor rail. It is designed to protect workers in the event of a fall, during tasks such as cleaning or maintenance work, checking an installation or safely entering a structure. It allows the slider to move freely over the intermediate anchors, enabling the user to move easily from one side of the rail to the other.

The rail makes it possible to secure 3 people (each weighing up to 100 kg including equipment and tools) at the same time (one person per slider).

The rail can also be used as an anchor point for Rope Access work (wall and floor applications only). In this case, each user must always be equipped with 2 sliders:

- 1 for the work rope
- 1 for the safety rope

The maximum distance between brackets of the aluminium rail is 6m (3m for rope access applications). 90° bends available for wall mounting and floor/ceiling mounting. The rail can be mounted on the floor, on the wall or overhead.

Tested to stop the fall of 3 users, 100kg

Travrail features:

- Detachable end stop for inserting or retrieving sliders
- Complies with EN 795-D
- Complies with CEN/TS 16415 for 3 simultaneous users
- To be used with EN 360 retractable fall arresters
- To be used with EN 353-2 guided type fall arresters with flexible anchor line
- To be used with EN 355 energy absorbers and decelerators
- To be used with EN 361 full body harnesses

Model	Product Code
Rail aluminium 3000 mm	232665
External corner rail I aluminium	232685
Internal corner rail I aluminium	206878
Overhead corner rail I aluminium	232705
Connection rail I aluminium	232715
Fix end stop	232745
Removable end stop	232655
Bracket	232725
Expansion bracket	232785
Standard slider	232675
Overhead slider (not for fall arrest)	242485
Wall slider (not for fall arrest)	232795
Sign plate	233245
Drilling kit	232765
Rail trimming and finishing (factory)	223326

Example:
For 8 m of rail, I order 3 rails of 3 m (3 x 232665) + a rail cutout (223326). Will be delivered 2 rails of 3 m and 1 rail of 2 m.

Tractel Stopcable 150kg

EN353-1 - EN 353-2 - PPE-R/11.062

The use of a ladder to gain access to a high level workstation can pose an element of risk.

The purpose of the Stopcable S system is to ensure the safety of personnel throughout their ascent. The Stopcable S vertical lifeline is a mobile anchoring device to enable a person to move on a vertical axis in perfect safety and without having to disconnect themselves. It consists of a fixed point and individual mobile equipment.

The Stopcable S vertical lifeline was designed, created and tested to comply with the requirements of the EN353-1 and EN 353-2 standards.

Have a look to our dedicated harnesses, with patented design for using with ladders.

Model	Product Code
Smart kit stopcable™ stainless steel - 3m	281737
1m of cable stainless steel	281757
Start kit stopcable™ galva - 3m	281747
1m of cable galva	281767
Slider stopcable™ S 150kg	72272
Counterweight	129445
Galvanised anchor	17872
Stainless steel anchor	32902
Kit of anchor for side bar	87378
Diameter 27 mm	18132
Diameter 34 mm	18142
Tensioning device	261809
Cable guide	108857
Energy shock-absorber	90049
Sign plate	146465

- Order products on day 1, will be shipped no later than day 2,
- Order products on day 1, will be shipped no later than day 6. Maximum quantities apply for this service.
- Available on request. Please enquire about delivery times of these items.

Tractel PART OF ALIMAK GROUP Permanent Safety Ladders

Horizontal fall protection for attachment to a slider

FABA System

EN353-1

The FABA range is a fall arrest system on a rail for vertical movements. The vertical rails are separately available for mounting on an existing ladder or can be supplied with an integrated ladder. The FABA systems include accessories such as rest platforms or access blocking systems. They are built to be adapted to all types of supports. These products can be supplied in galvanised steel, stainless steel or aluminium.

FABA ladders are complete systems in which all components are aligned with each other. The rigid rail allows the user to better control the movement of the slider.Unlike cable systems, several people can climb up the ladder one after the other (with sufficient spacing). Ideal for use over long distances.

The products of the FABA range have been tested to meet the requirements of the European EN 353-1 standard. Areas of application: along towers, chimneys, tanks, bridge piers, masts, antenna supports, access to mines, pits, sludge lagoons, cat walks, dams, tank lorries, cranes, roof terraces, waste water systems, etc.

See our harnesses, especially dedicated and patented for being used with FABA ladders

HT Easyclimb

HT120

Tractel PART OF ALIMAK GROUP FABA

Fall arresters on rail - (353-1 / 14122:4)

HIGH CAPACITY RANGE 150 kg www.tractel.com

Since 1965, our supplier, Tractel has offered vertical and horizontal access solutions (FABA systems) based on modular, robust designs.

FABA offers complete solutions and safety rails for safe access to your workplaces at height. A complete range of standard components guarantees a fall protection system according to EN 353-1. FABA fall arrest systems allow safe climbing on fixed vertical ladders at any height and on horizontal access routes.

Area of application: Towers, pillars, lighting or antenna masts, pylons, chimneys.

FABA System AL2

The FABA AL2 System has been on the market since 2000. It is based on the principle of the FABA A12 System and is suitable for material in anodised aluminum. The design of the safety rail and sliders is asymmetrical and guarantees sliders are always used in the right direction.

- Dimensions rail profile (H-shaped): 48 x 65 x 3-6mm
- Material: Anodised aluminum
- Design: Ladder with a central upright or with additional side uprights or just rail
- Spacing in between stops: 70mm
- Spacing in between rungs: 280mm
- Rungs: Straight, inserted and set on the back of the rail
- Ladder width: 414mm
- Primary lengths: 5,600 and 2,800mm
- Adjustment lengths: 560, 840, 1120, 1400, 1,680, 1,960, 2,240, 2,520, 3,080, 3,360, 3,640, 3,920, 4,200, 4,480, 4,760, 5,040 and 5,320mm
- Maximum distance between fixings: 1,680mm for the ladder with central upright, 2,520mm suitable for ladder with side uprights or the rail.

FABA System A12

The FABA A12 System has been on the market since 1995. It is a logical evolution of the FABA A11 System but a lighter and smaller version. The design of the safety rail and carriages is asymmetrical and guarantees that the carriages are always used in the right direction.

- Dimensions rail profile: 48 x 32 x 3 mm
- Material: Hot-dipped galvanised steel or stainless steel (1.4571)
- Design: Ladder with central upright or just rail
- Spacing in between stops: 40mm
- Spacing in between rungs: 280mm
- Rungs: Straight and welded on the back of the rail
- Width of the ladder: 380mm
- Primary lengths: 5,600 and 2,800mm
- Adjustment lengths: 560, 840, 1,120, 1,400, 1,680, 1,960, 2,240, 2,520, 3,080, 3,360, 3,640, 3,920, 4,200, 4,480, 4,760, 5,040 and 5320mm
- Maximum distance between fixings: 1,400mm for the ladder and 1,960 mm for the rail.

FABA A12 & AL2 Sliders

The slider is mobile component of the FABA system and is attached to the user with a carabiner.

All FABA sliders are certified to the latest applicable standard (EN353-1) and comply with the European Regulation 2016/425 (PPE Regulation) with a maximum user weight of 150kg.

The following sliders are compatible with the FABA system A12 and AL2:

- AL-D
- Grip
- EZ

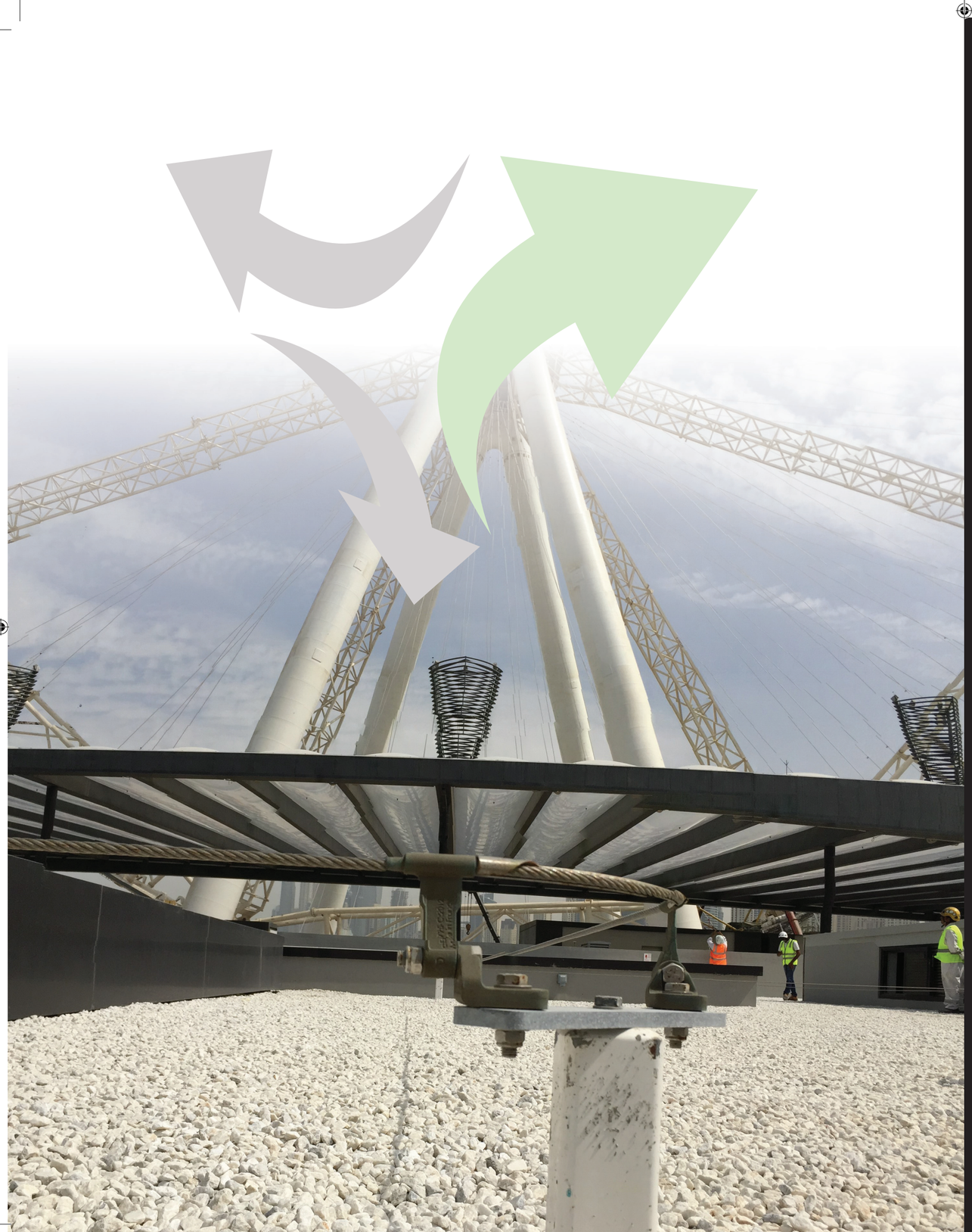
Each slider is designed for different uses according to the user needs and the following table is aimed at guiding the user's choice.

The safety rail of FABA is C-shaped rail and the sliders are gliding inside the rail. This offers the advantage of compacity of the system and increase the comfort of use as the rail and slider take less place in front of the user.

AL-D

Grip

	AL-D	Grip	EZ
Frequency of use			
Occasional	✓	-	✓
Daily	-	✓	✓
Application			
Industrial use	✓	-	-
Rescuer	-	-	✓
Extensive climbing height	-	✓	-
Confined access	✓	-	✓
Features			
Insertable and retrievable and at any location	-	-	✓
Anti-reversibility	✓	✓	✓
Compatibility			
A12	✓	✓	✓
AL2	✓	✓	✓
Connector			
Manual locking (MI0)	✓	-	✓
Automatic tri-lock (M23)	✓	✓	✓



8

PROLIFT
HANDLING LTD

Hoists and Winches

- Manual Hoists
- Electric Hoists

Tiger Lifting Lever Hoists

All our lever hoists are manufactured from the highest quality materials precisely machined in our own factory, producing strong products with high resistance to impact damage.

The hoists are finished in our high quality powder coat paint offering excellent corrosion protection. This all ensures they are ideal hoists for long-term use with less maintenance and servicing costs. The strong impact resistant gearbox housing, complete with close tolerance fit bearings that fully support the pinion shaft and planet gears, maintains smooth revolutions whilst under load. High gear ratios keep physical effort to a minimum; this provides maximum mechanical efficiency.

These units meet and exceed all the requirements within BS EN 13157: 2004+A1:2009, ANSI/ASME B30.21, AS1418.2 and SANS 1636.

UK Network Rail PADS Certification

Industrial TRLH

- Range from 750kg-6.0t
- Drop forged and heat treated alloy hooks
- Safe reliable twin pawl mechanical brake
- High quality alloy calibrated load chain
- Proof tested to 1.5 times rated capacity
- Guaranteed light load protection
- 1.5m height of lift as standard but can be chained to exact requirements
- Optional extra heavy duty chain end stop

Mini Series

- 250kg and 500kg units
- Safe and reliable twin pawl mechanical brake
- Rugged steel body construction
- Lightweight and portable
- 360 degree handle rotation
- Short stroke and low lever pulling effort
- Easy single-hand “freewheeling” operation
- Guaranteed light load protection
- Heat treated alloy steel triple spur gears and pinion shaft
- Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)
- Supplied with useful belt bags

Professional PROLH

- Range from 800kg –20.0t
- Patented Quad Cam Pawl System
- DNV GL Verification tested according to NORSOK R-002
- Available with slipping clutch overload protection
- Available with forged clevis adaptor components
- Equipped with our unique torsion brake mechanism
- One piece construction pinion gear
- No requirement for preload tension to activate the ratchet mechanism
- Light load tested and certified at 2% of the rated capacity
- Adaptable to use both inverted and horizontally
- Individual spares readily available
- Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)
- All major parts are heat treated and precisely machined
- Finished in high quality powder coat paint offeringm excellent corrosion protection
- Can be chained up to meet your exact requirements
- Phosphor bronze bearings
- Adjustable chain end anchorage available as an option
- Also available with stainless steel load chain or spark resistant hooks
- Available with load bearing swivel hooks to meet relevant standards i.e. AS 1418.2

Industrial TRLH

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
TRL-0075	0.75	22	128	240	275	158	99	24	38	6.3	1	1.5	7.5	0.9
TRL-0100	1.0	29	128	240	295	158	99	28	45	6.3	1	1.5	7.5	0.9
TRL-0150	1.5	26	154	360	320	172	104	34	51	7.1	1	1.5	10.0	1.1
TRL-0200	2.0	35	154	360	367	172	104	35	53	7.1	1	1.5	10.5	1.1
TRL-0300	3.0	38	182	360	400	195	108	36	56	10.0	1	1.5	18.0	2.2
TRL-0600	6.0	40	242	360	570	195	108	49	70	10.0	2	1.5	29.5	4.3

Mini Series

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
LH-0025	0.25	30	60	168	245	85	66	22	31	4.0	1	1.5	2.0	0.3
LH-0050	0.50	30	89	168	280	113	70	24	38	4.0	1	1.5	3.0	0.3

Professional PROLH

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
PLH-0080	0.8	23	128	240	295	158	99	28	45	6.3	1	1.5	7.5	0.9
PLH-0160	1.6	28	154	360	320	172	104	34	51	7.1	1	1.5	10.5	1.1
PLH-0320	3.2	40	182	360	400	195	108	36	56	10.0	1	1.5	18.0	2.2
PLH-0630	6.3	42	242	360	570	195	108	49	70	10.0	2	1.5	28.5	4.3
PLH-0800	8.0	38	379	360	580	195	108	51	78	10.0	3	1.5	43.0	6.5
PLH-1000	10.0	47	379	360	630	195	108	54	87	10.0	3	1.5	46.0	6.5
PLH-1500	15.0	44	566	360	840	195	108	59	81	10.0	5	1.5	112.0	10.8
PLH-2000	20.0	49	470	360	1050	250	160	81	110	10.0	6	1.5	156.0	13.1

Tiger Lifting Chain Blocks

All chain blocks are manufactured from the highest quality materials precisely machined in the factory, offering a lightweight, compact and rugged construction; producing an exceptionally strong product resistant to impact damage.

The especially low headroom allows for easy installation in the most restricted environments and all units come with drop forged and heat treated alloy hooks. The highly efficient brake systems work instantly when the operation is stopped and securely holds the load. Loads are lowered under perfect control, allowing for precise operations. Tiger chain blocks easily pass the brake lock out test as per BS 3243:1990 with a 2% load of the rated capacity. PROCB and SS20 are available with forged clevis adaptor components. They can be chained to any height of lift to meet exact requirements and individual spares are readily available. The PROCB/SS20 chain block top hook can be replaced by a competent person so the block can be directly fitted to our beam trolley range of the equivalent capacity achieving the lowest possible headroom.

All chain blocks meet or exceed all international standards within BS EN 13157:2004+A1:2009, ANSI/ASME B30.16, AS1418.2 and SANS 1594.

Industrial TRCB

- Range from 500kg-5.0t
- Safe and reliable twin pawl mechanical brake
- Operating temperature -25°C to +80°C
- Double cover protection for break cover

Professional PROCB

- Range from 250kg-35.0t
- Patented Quad Cam Pawl System
- DNV GL Verification tested according to NORSOK R-002
- Operating temperature -40°C to
- +80°C (temperature range of -60°C to +80°C available as an option)
- Double cover protection for break cover
- Tested and certified for “fleeting” “drifting” and “cross-hauling” applications up to 45° from the vertical without deration
- Suitable for underground mining use
- Available with slipping clutch overload protection
- Optional chain carrier
- Phosphor bronze bearings

Specialist SS20

- Range from 500kg-35.0t
- All the features of the PROCB as well as the following additional features:
- Suitable for use in multi-immersion applications (see p21)
- Corrosion protected load and hand chain
- Marine specific friction discs
- Marine chain bags available on request
- Fully corrosion protected body and components to ensure reliable long term use
- Stainless steel fixings and fasteners
- New technology high performance grease
- Winged design latches for easier operation
- Ultra-low operating temperature units available

Industrial TRCB

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
TRC-0050	0.5	21	93	66	305	52	78	24	38	6.3	1	3	10.5	1.9
TRC-0100	1.0	25	93	66	340	63	87	28	45	6.3	1	3	11.5	1.9
TRC-0150	1.5	32	98	73	385	78	102	34	51	7.1	1	3	16.0	2.1
TRC-0200	2.0	34	101	79	420	87	113	35	53	8.0	1	3	20.0	2.4
TRC-030T	3.0	34	98	73	488	60	148	36	56	7.1	2	3	23.0	3.2
TRC-0500	5.0	37	101	79	575	122	209	49	70	8.0	3	3	37.5	5.2

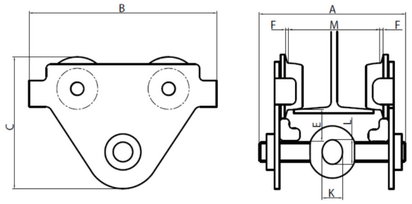
Professional PROCB

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
CB-0025	0.25	17	64	40	240	36	60	22	31	4.0	1	3	3.8	0.5
CB-0050	0.5	21	93	66	305	52	78	24	38	6.3	1	3	10.5	1.9
CB-0100	1.0	25	93	66	340	63	87	28	45	6.3	1	3	11.5	1.9
CB-0150	1.5	32	98	73	385	78	102	34	51	7.1	1	3	16.0	2.1
CB-0200	2.0	34	101	79	420	87	113	35	53	8.0	1	3	20.0	2.4
CB-020L	2.0	42	98	73	399	78	102	35	53	7.1	1	3	16.5	2.1
CB-0300	3.0	38	109	84	500	98	157	36	56	10.0	1	3	30.5	3.2
CB-030T	3.0	34	98	73	488	60	148	36	56	7.1	2	3	23.0	3.2
CB-0500	5.0	37	101	79	575	122	209	49	70	8.0	3	3	37.5	5.2
CB-0600	6.0	38	109	84	635	86	220	49	70	10.0	2	3	45.5	5.3
CB-0800	8.0	34	109	84	610	153	263	51	78	10.0	3	3	61.0	7.5
CB-1000	10.0	40	109	84	660	153	263	54	87	10.0	3	3	64.0	7.5
CB-1500	15.0	41	109	84	840	225	378	59	81	10.0	5	3	128.5	11.8
CB-2000	20.0	43	161	90	1050	148	360	81	110	10.0	6	3	178.5	14.2
CB-200T	20.0	43	161	161	1050	383	383	81	110	10.0	6	3	210.5	15.2
CB-3000	30.0	42	220	220	1200	390	390	91	135	10.0	10	3	307.0	23.8
CB-3500	35.0	40	240	240	1200	390	390	91	135	10.0	12	3	365.0	27.0

Specialist SS20 (also used for ROV compatible chain block)

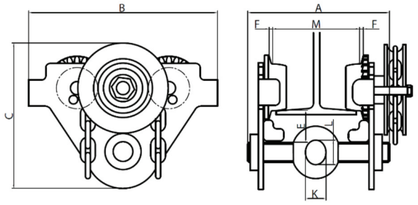
Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
SCB-0050	0.5	21	93	66	305	52	78	24	38	6.3	1	3	10.5	1.9
SCB-0100	1.0	25	93	66	340	63	87	28	45	6.3	1	3	11.5	1.9
SCB-0150	1.5	32	98	73	385	78	102	34	51	7.1	1	3	16.0	2.1
SCB-0200	2.0	34	101	79	420	87	113	35	53	8.0	1	3	20.0	2.4
SCB-0300	3.0	38	109	84	500	98	157	36	56	10.0	1	3	30.5	3.2
SCB-0500	5.0	37	101	79	575	122	209	49	70	8.0	3	3	37.5	5.2
SCB-0600	6.0	38	109	84	635	86	220	49	70	10.0	2	3	45.5	5.3
SCB-0800	8.0	34	109	84	610	153	263	51	78	10.0	3	3	61.0	7.5
SCB-1000	10.0	40	109	84	660	153	263	54	87	10.0	3	3	64.0	7.5
SCB-1500	15.0	41	109	84	840	225	378	59	81	10.0	5	3	128.5	11.8
SCB-2000	20.0	43	161	90	1050	148	360	81	110	10.0	6	3	178.5	14.2
SCB-3000	30.0	42	220	220	1200	390	390	91	135	10.0	10	3	307.0	23.8

Screw Push Trolley



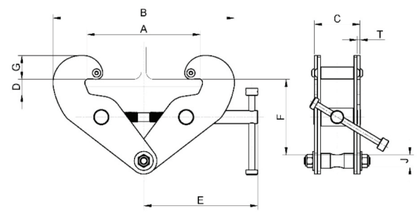
Product Code	Capacity (tonne)	Dimensions (mm)								Min. curve ratio (m)	Net Weight (kg)
		Beam Range M	A	B	C	E	F	K	L		
SPT-0050	0.5	50-220	300	210	190	33	3	25	30	0.9	7.0
SPT-0100	1.0	64-220	300	260	211	31	3	30	35	1.0	10.0
SPT-0200	2.0	88-220	310	310	236	32	3	40	47	1.1	15.5
SPT-0300	3.0	102-220	320	390	295	46	3	48	58	1.3	26.0
SPT-0500	5.0	114-220	330	450	334	47	3	60	70	1.4	38.0

Screw Geared Trolley



Product Code	Capacity (tonne)	Dimensions (mm)								Min. curve ratio (m)	Net Weight (kg)
		Beam Range M	A	B	C	E	F	K	L		
SGT-0050	0.5	50-220	300	210	190	33	3	25	30	0.9	9.0
SGT-0100	1.0	64-220	300	260	211	31	3	30	35	1.0	13.0
SGT-0200	2.0	88-220	310	310	236	32	3	40	47	1.1	20.5
SGT-0300	3.0	102-220	320	390	295	46	3	48	58	1.3	30.0
SGT-0500	5.0	114-220	330	450	334	47	3	60	70	1.4	45.0

Beam Clamp

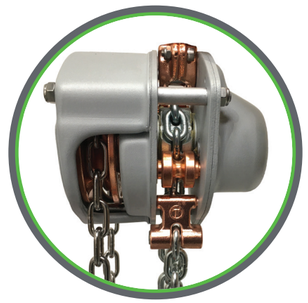


Product Code	Capacity (tonne)	Dimensions (mm)								Net Weight (kg)
		Beam Range M	A	B	C	E	F	G	J	
BC-0100	1.0	75-210	182-328	77	26	190	144-117	52-38	20	4.0
BC-0200	2.0	75-210	182-328	85	26	190	144-117	52-38	20	4.5
BC-0300	3.0	75-305	214-460	107	35	240	224-179	58-40	22	8.0
BC-0500	5.0	75-305	214-460	121	35	240	224-175	58-40	28	10.0
BC-1000	10.0	120-350	295-510	182	36	300	222-171	71-54	43	24.5

Spark Resistant Chain Block

Combined chain blocks and trolleys available

- Stainless steel hand chain (chain blocks)
- Corrosion protected load chain
- Marine specific friction discs
- Brake chamber protection from outside contamination
- Copper plated suspension and load hooks, load chain guides, grip rings, hand wheels and end anchorage
- Stainless steel fixings and fasteners
- Lever hoist also available using our PROLH unit and standard load chain
- Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)



Ex II 2 GD c IIC T4 IIIC T135°C

II	2	GD	c	IIC	T4	IIIC	T135°C		
								T135°C	Dust Temperature Class: Maximum external surface temperature 135°C
								IIIC	Groups of Dust: Protected for group IIIC which includes groups IIIA & IIIB
								T4	Gas Temperature Class: Maximum external surface temperature 135°C
								IIC	Gas Explosion Group: Protected for group IIC which includes groups IIA & IIB
								c	Protection type: Design safety
								GD	Ex Atmosphere: Gas and Dust
								2	Category: High Safety
								II	Equipment Group: surface industries

VERLINDE EUROCHAIN VR®

Electric chain hoist for loads from 63 to 10,000kg

Completely innovative, top of the range design, its fluid, contemporary and elegant lines confirm the power of this electric chain hoist.

This new generation of EUROCHAIN VR hoists is the result of innovative technology ; new materials, new operating concepts, can adapt to each specific need.

Phase 1 → Phase 2

With EUROCHAIN VR12 phase 2, dimensions reduction about **30%**.

- Optimize and better organization of product offering for EUROCHAIN VR range (VR2, VR5, VR12). Range update with addition of new 2-fall products VR2 (500 kg) and VR5 (1000 kg).
- Better integration of current options (lighting, radio, klaxon,...) compare to phase 1. New options (IP 66 protection, Short headroom trolley,...) will be available on phase 2.
- Product improvements : tilted position of the hoist and size of body reduced by 30% on VR12 (compare to phase 1).

Technical characteristics

The EUROCHAIN VR electric chain hoist is designed to provide users with the maximum level of safety. It is delivered with the following equipment as standard:

- New lifting nut concept with intermediate teeth for perfect chain drive.
- Torque limiter.
- Disk lifting brake.
- 3 m standard lifting height.
- Dual-speed lifting.
- Safety electric end of run for up and down position.
- IP55 lifting and travelling motor.
- Thermal protection on lifting motor.
- Tropic-proof protection (lifting and steering – 90 to 95%).
- Galvanised lifting chain.
- Disconnectable command cable.
- 2-buttons unit on fixed hoist or push steering carriage.
- 4-buttons unit on hoist coupled to electric steering carriage.
- Emergency stop button.
- 400V/3Ph/50Hz or 415V/3Ph/50 Hz or 460V/3 Ph/60 Hz power supply.
- Low voltage 48 V command.
- Chain bag.
- 70 mm, RAL 7021 epoxy powder paint.
- Speed variation on travelling – MS Mode (for hoists with an electric trolley).
- Complies with the CE machine directive.

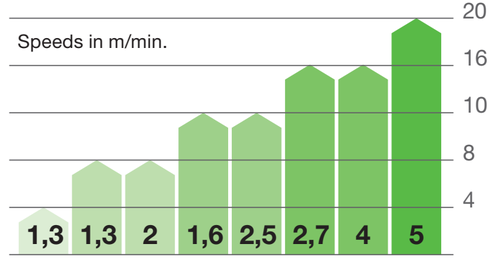
EUROCHAIN VR5
mounted on VFTS jib crane with EUROSYSTEM profile

Speed

Wide range of speeds.

25% quicker than the previous generation: 4/1,3; 8/1,3; 8/2; 10/1,6; 10/2,5; 16/2,7; 16/4; 20/5.

The lifting speed ranges have been considerably expanded to enable them to better meet your production constraints and increase productivity, performance, safety and usage on a daily basis.



Savings

Maintenance operations are now simpler, quicker and more economical:

- Easy access to the brake setting.
- Easy access to the clutch setting.
- Easy access to the fuse.
- Access (workspace) and easy removal of the electric boards by removable plug.

EUROCHAIN VR25
for load up to 10,000 kg in combined version

Options available

- Special voltage (power and control).
- Gear limit switches (2 or 4 steps).
- Single phase version.
- Double brake on lifting motor.
- Maual brake release.
- Hard wired 48V control.
- HF radio remote.
- Audible horn.
- Light warning.
- Key switch on Emergency / Stop button.
- Suspension eye perpendicular instead of upper hook.
- Self-locking hook.
- Parallel suspension hook.
- Special oil NSF H1 for food industry.
- Special load for hoist.
- Stainless steel hook block and hook.
- Foot mounted hoist.
- Travel limit siwtches.
- Low headroom trolley.
- Swivelling trolley.
- Double girder trolley.
- Leading bracket for feeding line.
- Dual speed trolley (20 & 5 m/min).

Double brake

Stainless steel wheels

Light warning

Horn

Multipurpose fixing plate

Hard wired control plug

Radio receiver

Taylor-made declination

EUROCHAIN VR5
Fixed suspended by hook.

EUROCHAIN VR25
Fixed suspended by hook.

Hooked to motorized or hand operated trolley in Eurosystem ST profile.

Hooked to motorized or hand operated trolley in Eurosystem ALU profile.

Hooked to hand operated or geared trolley on I beam.

Coupled to motorized trolley on I beam.

Combined hoist for increased capacity up to 10,000 kg coupled to motorized trolley on I beam.

3 falls hoist body for increased capacity up to 7,500 kg coupled to motorized trolley on I beam.

Coupled to short headroom push trolley on I beam.

Coupled to short headroom geared trolley on I beam.

Coupled to swivelling motorized trolley on curved beam.

Coupled to short headroom motorized trolley on I beam.

Coupled to double girder motorized trolley on crane.

VERLINDE LIFTING EQUIPMENT EUROCHAIN VR® INOX

Electric chain hoist for loads from 63 to 10,000kg

Technical characteristics

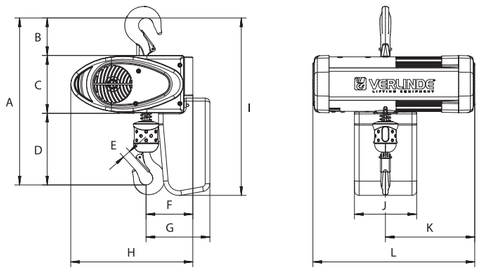
- Stainless steel lifting chain.
- New lifting nut concept with intermediate teeth for perfect chain drive.
- Torque limiter.
- Disk lifting brake.
- 3 m standard lifting height.
- Dual-speed lifting.
- Safety electric end of run for up and down position.
- IP55 lifting and travelling motor.
- Thermal protection on lifting motor.
- Tropic-proof protection (lifting and steering – 90 to 95%).
- Disconnectable command cable.
- 2-buttons unit on fixed hoist or push steering carriage.
- 4-buttons unit on hoist coupled to electric steering carriage.
- Emergency stop button.
- 400V/3Ph/50Hz or 415V/3Ph/50 Hz or 460V/3 Ph/60 Hz power supply.

Options

- Stainless steel lifting hook.
- Biodegradable oil NSF H1 or dedicated for food (lifting and travelling gearbox, lifting chain). Lubricant clean and bubble for chains, sprockets and guides in the industry food. Oil synthetic anti-wear and extreme pressure, usable for incidental contact with the foodstuffs following the FDA requirements (certificates available on request).
- Stainless steel load wheel on trolley hoist and accessory white finish Paint.
- Level of protection increased: ATEX Zone 1, EEx.
- Level of protection increased: ATEX Zone 22.
- IP66 protection.
- Variable speed lifting.
- Extreme operating tempetatures: (-40°C to +70°C).
- Wall control panel instead of the pendant.
- Remote radio control.
- Manual or electric trolley.

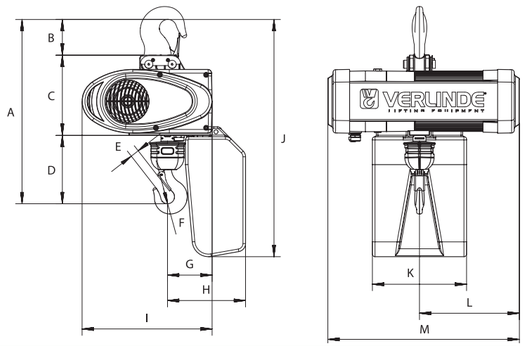
Hoists dimensions

EUROCHAIN
VR2
VR5
VR12



Hoist Type	Chain Dimensions	Chain bag capacity (m)	Max. Loading (kg)	Dimensions (mm)												
				A	B	C	D	E	F	G	H	I	J	K	L	
VR2	4 x 11	8	250	376	86	56	76	186	18	131	300	380	219	230	411	—
	4 x 11	8	500	376	86	56	76	186	18	131	300	380	219	230	411	—
VR5	5 x 14	6/16/25	630	445	107	156	182	21	138	161	362	489/554/674	150	230	438	570
	5 x 14	6/16/25	1000	506	107	156	243	27	123	184	362	489/554/674	150	230	438	570
VR12	7 x 20	6/16/30	1250	537	121	186	230	27	150	205	392	570/711/781	200	287	520	653
	7 x 20	6/16/30	2500	607	121	186	300	33	154	236	392	570/711/781	200	287	520	653

Standard version VARIO version



EUROCHAIN
VR16
VR25

Hoist Type	Chain Dimensions	No. of falls	Chain bag capacity (m)	Max. Loading (kg)	Dimensions (mm)												
					A	B	C	D	E	F	G	H	I	J	K	L	M
VR16	7 x 20	1	12	1250	614	110	247	257	28	21	137	240	400	730	290	308	590
	7 x20	1	30	1250	614	110	247	257	28	21	137	315	400	905	300	308	590
	9 x 27	1	12	1600	567	110	247	210	26	22	138	240	400	730	290	308	590
	9 x 27	1	30	1600	567	110	247	210	26	22	138	315	400	905	300	308	590
	9 x 27	2	12	3200	693	110	247	336	35	25	179	282	400	730	290	308	590
	9 x 27	2	30	3200	693	110	247	336	35	25	179	357	400	905	300	308	590
VR25	9 x 27	1	12	1600	584	110	263	211	26	22	159	286	439	809	300	306	623
	9 x 27	1	30	1600	584	110	263	211	26	22	159	397	439	986	350	306	623
	11,3 x 31	1	12	2500	611	110	263	238	33	24	159	286	439	809	300	306	623
	11,3 x 31	1	30	2500	611	110	263	238	33	24	159	397	439	986	350	306	623
	11,3 x 31	2	12	5000	761	110	263	388	41	28	207	334	439	809	300	306	623
	11,3 x 31	2	30	5000	761	110	263	388	41	28	207	447	439	986	350	306	623
	11,3 x 31	3	nc	6300	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	11,3 x 31	3	nc	7500	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	11,3 x 31	2 x 2	nc	10000	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc

The EUROCHAIN VR hoist range

Capacity (kg)	Hoist type	F.E.M.	ISO	Lifting speeds (m/min)	No. of falls	HS lifting motor power (kW)	Gear box lifetime (hours)	Chain dimensions	
63	VR2 0608 b3	3m	M6	8 / 2	1	0,45	3200	4 x 11	
	VR2 0610 b3	3m	M6	10 / 2,5	1	0,45	3200	4 x 11	
	VR2 0616 b3	3m	M6	16 / 4	1	0,45	3200	4 x 11	
	VR2 0620 b3	3m	M6	20 / 5	1	0,45	3200	4 x 11	
125	VR2 128 b3	3m	M6	8 / 2	1	0,45	3200	4 x 11	
	VR2 1210 b3	3m	M6	10 / 2,5	1	0,45	3200	4 x 11	
	VR2 1216 b2	2m	M5	16 / 4	1	0,45	1600	4 x 11	
	VR2 1220 b1	1Am	M4	20 / 5	1	0,45	800	4 x 11	
160	VR2 168 b3	3m	M6	8 / 2	1	0,45	3200	4 x 11	
	VR2 1610 b3	3m	M6	10 / 2,5	1	0,45	3200	4 x 11	
	VR2 1616 b1	1Am	M4	16 / 4	1	0,45	800	4 x 11	
250	VR2 258 b2	2m	M5	8 / 2	1	0,45	1600	4 x 11	
	VR2 2510 b1	1Am	M4	10 / 2,5	1	0,45	800	4 x 11	
	VR5 254 b3	3m	M6	4 / 1,3	1	0,9	1600	4 x 11	
	VR5 258 b3	3m	M6	8 / 1,3	1	0,9	800	4 x 11	
	VR5 2516 b2	2m	M5	16 / 2,6	1	0,9	1600	4 x 11	
	VR5 2520 b1	1Am	M4	20 / 3,2	1	0,9	800	4 x 11	
320	VR2 328 b1	1Am	M4	8 / 2	1	0,45	800	4 x 11	
	VR5 3216 b1	1Am	M4	16 / 2,7	1	0,9	800	4 x 11	
500	VR2 504 b2	2m	M5	4 / 1	2	0,45	1600	4 x 11	NEW
	VR5 504 b2	2m	M5	4 / 1,3	1	0,45	1600	5 x 14	
	VR5 508 b2	2m	M5	8 / 1,3	1	0,9	1600	5 x 14	
	VR12 504 b3	3m	M6	4 / 1,3	1	0,9	800	5 x 14	
	VR5 5010 b1	1Am	M4	10 / 1,6	1	0,9	1600	5 x 14	
	VR12 508 b3	3m	M6	8 / 1,3	1	1,8	1600	5 x 14	
	VR12 516 b2	2m	M5	16 / 2,6	1	1,8	1600	5 x 14	
	VR12 520 b1	1Am	M4	20 / 3,2	1	1,8	800	5 x 14	
630	VR5 634 b1	1Am	M4	4 / 1,3	1	0,45	800	5 x 14	
	VR5 638 b1	1Am	M4	8 / 1,3	1	0,9	800	5 x 14	
	VR12 6316 b1	1Am	M4	16 / 2,6	1	1,8	800	5 x 14	
800	VR16 816 b3	3m	M6	16 / 2,6	1	2,3	3200	7 x 20	
	VR25 820 b3	3m	M6	20 / 3,3	1	3,6	3200	9 x 27	
1000	VR5 1004 b2	2m	M5	4 / 0,7	2	0,45	1600	5 x 14	NEW
	VR12 1008 b2	2m	M5	8 / 1,3	1	1,8	1600	7 x 20	
	VR12 1010 b1	1Am	M4	10 / 1,6	1	1,8	800	7 x 20	
	VR16 1012 b3	3m	M6	12,5 / 2	1	2,3	3200	7 x 20	
	VR25 1016 b3	3m	M6	16 / 2,6	1	3,6	3200	9 x 27	
	VR25 1020 b3	3m	M6	20 / 3,3	1	3,6	3200	9 x 27	
	VR12 1004 b3	3m	M6	4 / 0,7	2	1,8	3200	7 x 20	
1250	VR12 1204 b1	1Am	M4	4 / 1,3	1	0,9	800	7 x 20	
	VR12 1208 b1	1Am	M4	8 / 1,3	1	1,8	800	7 x 20	
	VR16 1232 b3	3m	M6	32 / 5	1	2,3	1600	9 x 27	
1600	VR5 1004 b2	2m	M5	4 / 0,7	2	1,8	1600	7 x 20	
	VR12 1604 b2	2m	M5	4 / 0,7	2	1,8	1600	7 x 20	
	VR12 1605 b2	2m	M5	5 / 0,8	2	1,8	1600	7 x 20	
	VR16 1608 b2	2m	M5	8 / 1,3	1	2,3	3200	9 x 27	
	VR25 1612 b3	3m	M6	12,5 / 2	1	3,6	3200	11,3x31	
2000	VR12 2004 b2	2m	M5	4 / 0,7	2	1,8	1600	7 x 20	
	VR12 2005 b1	1Am	M4	5 / 0,8	2	1,8	800	7 x 20	
	VR16 2006 b3	3m	M6	6,3 / 1	2	2,3	3200	9 x 27	
	VR25 2008 b3	3m	M6	8 / 1,3	1	3,6	3200	11,3 x 31	
2500	VR12 2504 b1	1Am	M4	4 / 0,7	2	3,6	800	7 x 20	
	VR16 2504 b3	3m	M6	4 / 0,7	2	2,3	3200	9 x 27	
	VR25 2508 b3	3m	M6	8 / 1,3	1	3,6	1600	11,3 x 31	
3200	VR16 3204 b2	2m	M5	4 / 0,7	2	2,3	1600	9 x 27	
	VR25 3206 b3	3m	M6	6,3 / 1	2	3,6	3200	11,3 x 31	
4000	VR25 4004 b3	3m	M6	4 / 0,7	2	3,6	3200	11,3 x 31	
5000	VR25 5004 b2	2m	M5	4 / 0,7	2	3,6	1600	11,3 x 31	
6300	nc								NEW
7500	nc								NEW
10000	nc								NEW

Stagemaker SR10

Hoist according
ATEX EX regulation

Stainless steel Hook and
lifting chain

- Low speed trolley (3 to 10 m/min).
- Worm gear box.
- High speed trolley.
- Stainless steel wheels on trolley.
- Bigger flange width than 310m.
- Wall control box.
- IP 66 Protection.
- High capacity chain bag.
- Extra set of document.
- Special paint.
- Additional button on pendant.
- Direct voltage control instead of low voltage.
- Rain cover.
- Reinforced protection.
- Total protection zone 22.
- Tropicalised protection.
- Hoist according CSA specifications.
- Hoist according ATEX EX.
- Hoist for entertainment application (Stagemaker SR).

Lifting standards and rules

CE directive. Since 29th December 2009 a new Machine Directive (2006/42/CE) has been in application for the assembly and trade in new machines marketed from 2010. This new text completes the former Directive, which was a compilation of 600 standards from 1995. This directive requires manufacturers to harmonise their production according to certain provisions, standards, national rules and technical specifications.

F.E.M. European Federation of Handling Industries.

S.W.P. Safe Working Period. The unit's safe working period is determined according to the average usage time for the lifting mechanism, the load spectrum and the user group. After this period, a general overhaul recommended by the manufacturer is necessary.

User group. Depending on the FEM classification, two fundamental criteria must be taken into account: the use made of the hoist and the operating classes (related to the average daily usage time and the machine's lifting movement).

ISO standard. The usage groups may also be defined as ISO groups (1Am = M4, 2m = M5, 3m = M6, etc).

Usage conditions.

- **Light service.** Machine subject exceptionally to maximum use and frequently to very low use.
- **Medium service.** Machine subject quite often to maximum use and frequently to low use.
- **Heavy service.** Machine subject frequently to maximum use and frequently to medium use.
- **Very heavy service.** Machine subject regularly to use close to maximum use.

Average daily operating time in hours				≤ 0,5		≤ 1		≤ 2		≤ 4		≤ 8		≤ 16	
Operating class				V0,25	T2	V0,5	T3	V1	T4	V2	T5	V3	T6	V4	T7
Usage conditions	1	L1	Light					1Bm	M3	1Am	M4	2m	M5	V4	M6
	2	L2	Medium		1Bm	M3	1Am	M4	2m	M5	3m	M6			
	3	L3	Heavy	1Bm	M3	1Am	M4	2m	M5	3m	M6				
	4	L4	Very heavy	1Am	M4	2m	M5	3m	M6						
Group								1Bm	M3	1Am	M4	2m	M5	3m	M6
Operating factor*								25%		30%		40%		50%	
Number of start-ups per hour								150		180		240		300	

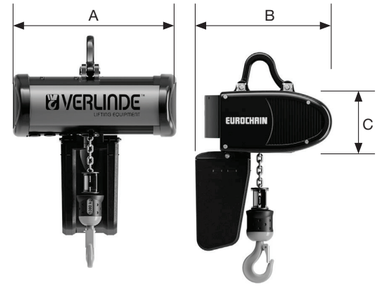
F.E.M. 9511 standard classification

ISO standard classification.

$$\text{* Operating factor in \%} = \frac{\text{Rise time + Lower time}}{\text{Rise time + Stop time + Lower time + Stop time}} \times 100$$

VERLINDE EUROCHAIN VX

Electric chain hoist for loads from 63 to 10,000kg



Hoist Type	Dimensions (mm)			Weight w/o chain (kg)
	A	B	C	
EUROCHAIN VX2	387	297.6	141	22.5 (24.1*)
EUROCHAIN VX5	410	345.9	157	30 (35.3*)
EUROCHAIN VX10	483	417	196	53

Standard equipment

The electric chain hoist EUROCHAIN VX includes the following equipment as standard:

- Height of lift 3 m.
- Bracket suspension for suspended hoist.
- 2 hoisting speeds.
- Safety limit switch for upper & lower position.
- IP55 hoisting & travelling motor protection.
- Load chain galvanized.
- Control cable 2,5 m.
- 2 buttons pendant for hook suspended hoist or manual trolley.
- 4 buttons pendant for hoist with electric trolley.
- Power supply 400V/3Ph/50Hz or 415V/3Ph 50 Hz or 460V/3Ph /60 Hz.
- Low voltage control 48 V.
- Torque limitor.
- Chain collector.
- Emergency stop button mushroom type.
- Paint 5 years guaranted (RAL 7021).
- Variable travelling speed (for hoist with electric trolley)
- 2 years guaranted.

Options available

- Non standard power supply (ex.: 230 3ph).
- ACF board for direct control hoist.
- Hard wired control (48V).
- Stainless steel lifting chain and hook.
- Self locking hook.
- Time meter.
- Radio remote control.
- Pendant with 4 or 6 buttons.
- Key switch on pendant.
- Travel limit switches.
- Non standard length on power supply cable.
- Non standard power supply plug (4 or 5 poles).
- Rain cover.
- Brake manual release.
- Food contact oil (NSF H1).
- Gear limit switches 2 or 4 steps.

Available versions

- Fixed hoist suspended by bracket.
- Hoist on monorail push trolley.
- Hoist on monorail motorized trolley.

The EUROCHAIN VR hoist range

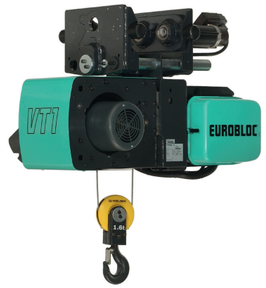
Load(kg)	Hoist type	Group (ISO)	Lifting speeds (m/min)	Reeving	Chain size
63	VX2 0608b3	M6	8/2	1	4.1 x 12.1
	VX2 0612b3	M6	12/3	1	4.1 x 12.1
	VX2 0616b3	M6	16/4	1	4.1 x 12.1
	VX2 0624b3	M6	24/6	1	4.1 x 12.1
125	VX2 1208b3	M6	8/2	1	4.1 x 12.1
	VX2 1212b3	M6	12/3	1	4.1 x 12.1
	VX2 1216b2	M5	16/4	1	4.1 x 12.1
160	VX2 1608b3	M6	8/2	1	4.1 x 12.1
	VX2 1612b3	M6	12/3	1	4.1 x 12.1
	VX5 1616b1	M4	16/4	1	5.1 x 15.1
250	VX2 2508b2	M5	8/2	1	4.1 x 12.1
	VX5 2512b1	M4	12/3	1	5.1 x 15.1
	VX5 2504b3	M6	4/1	1	5.1 x 15.1
	VX5 2508b3	M6	8/2	1	5.1 x 15.1
	VX5 2516b2	M5	16/4	1	5.1 x 15.1
320	VX5 3208b2	M5	8/2	1	5.1 x 15.1
	VX2 5004b2	M5	4 / 1	2	4,1 x 12,1
	VX5 5004b2	M5	4 / 1	1	5.1 x 15.1
	VX5 5008b2	M5	8 / 2	1	5.1 x 15.1
500	VX10 5012b2*	M5	12 / 3	1	7.2 x 21.1
	VX10 5004b2*	M5	4 / 1	1	7.2 x 21.1
	VX10 5008b3*	M6	8 / 2	1	7.2 x 21.1
	VX10 5016b2*	M5	16 / 4	1	7.2 x 21.1
630	VX5 6304b2	M5	4/1	2	5.1 x 15.1
	VX10 6316b1*	M4	16/4	1	7.2 x 21.1
1000	VX5 1004b2	M5	4/1	2	5.1 x 15.1
	VX10 1004b2*	M5	4/1	1	7.2 x 21.1
	VX10 1006b2*	M5	6/1,5	1	7.2 x 21.1
	VX10 1008b2*	M5	8/2	1	7.2 x 21.1
1250	VX10 1204b1*	M4	4/1	1	7.2 x 21.1
	VX10 1208b1*	M4	8/2	1	7.2 x 21.1
	VX10 1204b2*	M5	4/1	2	7.2 x 21.1
	VX10 1204b2*	M5	6/1,5	2	7.2 x 21.1
1600	VX10 1604b2*	M5	4/1	2	7.2 x 21.1
	VX10 1606b2*	M5	6/1,5	2	7.2 x 21.1
2000	VX10 2004b2*	M5	4/1	2	7.2 x 21.1
	VX10 2006b1*	M4	6/1,5	2	7.2 x 21.1
2500	VX10 2504b1*	M4	4/1	2	7.2 x 21.1
From 2,500 to 10,000kg consult us					

VERLINDE LIFTING EQUIPMENT EUROBLOC VT®

Electric wire rope hoist for load from 800 up to 80,000kg

Customised installations

Foot mounted.



Monorail trolley with standard headroom (HPN).

Monorail trolley with short headroom (HPR).

Double girder trolley high, medium and low version.

Monorail trolley with short headroom (HPR) and inverter on lifting motion (option).

Options

- Non standard rail width.
- Special rail gauge.
- Higher travelling speed.
- Radio remote control.
- Travelling limit switch.
- Derailment catches on double girder trolley.
- Boogies trolley (only with HPN).
- Missing phase control.
- Monitor 2 (MT2).
- 2 or 3 steps overload device.
- Overload device temporization.
- Optical and audible warning connected to overload limit switch.
- Non standard main voltage.
- Rain cover.
- Klaxon on pendant box.
- Explosion proof and / or spark proof version.
- Load indication device.
- Motors thermal protection.
- Class H motors.
- Heating device on motor.
- Stainless steel hoist electrical cubicle IP 55 or IP 65.
- CSA electrical control.
- Hook operated upper limit switches.
- Ramshorm hook.
- Additional brake.
- Lifting variable speed.
- Crash protection with electronic cell.

Hoist according ATEX EX regulation

Standards and hoisting regulations

CE directive. Since December 2009, the European Machinery Directive (2006/42/EC) applies to the sale and assembly of all new machines marketed from 2010. The new decree is complementary to the former Directive, made up of 600 standards issued in 1995. That directive obliges that machine constructors ensure that their machinery complies with certain reglementations, standards, national legislations and technical specifications.

F.E.M. European lifting equipment association.

S.W.P. Safe Working Period. A Safe Working Period is calculated for each electrical hoist unit according to the average operating time of the hoisting equipment, load capacity and class of application.After this period, a general service carried out by the constructor is necessary.

Class of operation. According to FEM classification, two fundamental criteria must be taken into account : the type of duty and the class of duty (according to average daily operation time average load).

ISO standard. Classes of operation can also be defined according to ISO grouping (1Am =M4, 2m =M5, 3m =M6, etc.).

Type of duty.

- **Light service.** Equipment rarely subject to maximum load and frequently to very little load.
- **Medium service.** Equipment rarely subject to maximum load and frequently to very little load.
- **Heavy service.** Equipment frequently subject to maximum load and frequently to medium load.
- **Very heavy service.** Equipment frequently subject to maximum or near maximum load.

Average daily operating time in hours				≤ 0,5		≤ 1		≤ 2		≤ 4		≤ 8		≤ 16	
Class of duty				V0,25	T2	V0,5	T3	V1	T4	V2	T5	V3	T6	V4	T7
Type of service	1	L1	Light					1Bm	M3	1Am	M4	2m	M5	V4	M6
	2	L2	Medium		1Bm	M3	1Am	M4	2m	M5	3m	M6			
	3	L3	Heavy	1Bm	M3	1Am	M4	2m	M5	3m	M6				
	4	L4	Very heavy	1Am	M4	2m	M5	3m	M6						
Group								1Bm	M3	1Am	M4	2m	M5	3m	M6
Operating factor*								25%		30%		40%		50%	
Number of start-ups per hour								150		180		240		300	

F.E.M. 9511 standard classification

ISO standard classification.

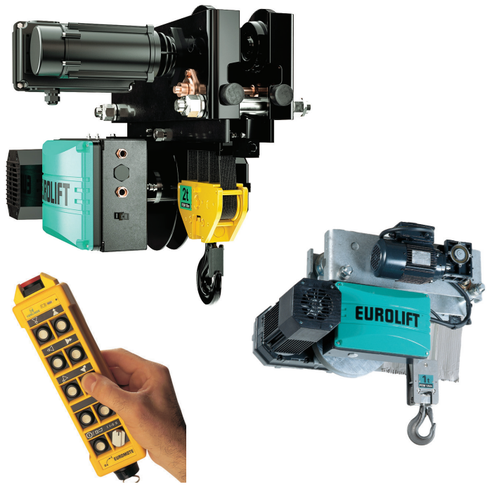
* Operating factor in % = $\frac{\text{Rise time + Lower time}}{\text{Rise time + Stop time + Lower time + Stop time}}$ x 100

The EUROCHAIN VR hoist range

*Not available in HPR version. **Consult us.

Hoist codification	Load (FEM/kg)			H.O.L.(m)	Lifting speeds (m/mn)	Trolleys					
						Fixed	Monorail		Double girder trolley		
	1Am	2m	3m				HPR	HPN	High	Med.	Low
VT10211--N P1		1 000	800	12	10 / 1,6	•	•	•	•	•	
VT10211--N P2		1 600	1 250	12 - 19	10 / 1,6	•	•	•	•	•	
VT10211--R P2		1 600	1 250	12 - 19	12,5 / 2	•	•	•	•	•	
VT10411--N P1		2 000	1 600	6 - 9,5	5 / 0,8	•	•	•	•	•	
VT10411--N P2		3 200	2 500	6 - 9,5	5 / 0,8	•	•	•	•	•	
VT10411--R P2		3 200	2 500	6 - 9,5	6,3 / 1	•	•	•	•	•	
VT20211--N P3		2 500	2 000	12 - 18 - 24 - 30*	10 / 1,6	•	•	•		•	
VT20211--R P4		2 500	2 000	12 - 18 - 24 - 30*	16 / 2,6	•	•	•		•	
VT20211--L P3	3 200			12 - 18 - 24 - 30*	8 / 1,3	•	•			•	
VT20411--N P3		5 000	4 000	6 - 9 - 12 - 15*	5 / 0,8	•	•	•		•	
VT20411--R P4		5 000	4 000	6 - 9 - 12 - 15*	8 / 1,3	•	•	•		•	
VT20411--L P3	6 300			6 - 9 - 12 - 15*	4 / 0,7	•	•	•		•	
VT20611--N P3		7 500		6 - 8 - 10	3,2 / 0,5	•	•	•		•	
VT20611--R P4		7 500		6 - 8 - 10	5 / 0,8	•	•	•		•	
VT20811--N P3	10 000	8 000		4,5 - 6 - 7,5	2,5 / 0,4	•		•		•	
VT20811--R P4	10 000	8 000		4,5 - 6 - 7,5	4 / 0,7	•		•		•	
VT30211--N P5		5 000	4 000	18 - 24 - 32 - 40*	10 / 1,6	•		•		•	•
VT30211--R P6		5 000	4 000	18 - 24 - 32 - 40*	16 / 2,6	•		•		•	•
VT30211--L P5	6 300			18 - 24 - 32 - 40*	8 / 1,3	•	•	•		•	
VT30411--N P5		10 000	8 000	9 - 12 - 16 - 20*	5 / 0,8	•	•	•		•	•
VT30411--R P6		10 000	8 000	9 - 12 - 16 - 20*	8 / 1,3	•	•	•		•	•
VT30411--L P5	12 500			9 - 12 - 16 - 20*	4 / 0,7	•	•		•		
VT30611--N P5		15 000		,5 - 6 - 8 - 10	3,2 / 0,5	•		•		•	
VT30611--R P6		15 000		4,5 - 6 - 8 - 10	5 / 0,8	•		•		•	
VT30811--N P5	20 000	16 000		4,5 - 6 - 8 - 10	2,5 / 0,4	•		•		•	
VT30811--R P6	20 000	16 000		4,5 - 6 - 8 - 10	4 / 0,7	•		•		•	
VT30421--N P5		5 000	4 000	10 - 14 - 19 - 26 - 35 - 47	10 / 1,6	•				•	
VT30421--R P6		5 000	4 000	10 - 14 - 19 - 26 - 35 - 47	16 / 2,6	•				•	
VT30821--N P5		10 000	8 000	5 - 7 - 9,5 - 13 - 17,5 - 23,5	5 / 0,8	•				•	
VT30821--R P6		10 000	8 000	5 - 7 - 9,5 - 13 - 17,5 - 23,5	8 / 1,3	•				•	
VT31221--N P5		15 000	12 000	4,5 - 6,5 - 8,5 - 11,5 - 15,5	3,2 / 0,5	•				•	
VT31221--R P6		15 000	12 000	4,5 - 6,5 - 8,5 - 11,5 - 15,5	5 / 0,8	•				•	
VT31621--N P5	20 000	16 000		4,5 - 6,5 - 8,5 - 11,5	2,5 / 0,4	•				•	
VT31621--R P6	20 000	16 000		4,5 - 6,5 - 8,5 - 11,5	4 / 0,7	•				•	
VT40211--L P6	10 000	8 000	6 300	16,4 - 22 - 28,6 - 37	8 / 1,3	•				•	
VT40211--N P6		8 000	6 300	16,4 - 22 - 28,6 - 37	10 / 1,6	•				•	
VT40211--N P7	10 000			16,4 - 22 - 28,6 - 37	10 / 1,6	•				•	
VT40211--R P7		8 000	6 300	16,4 - 22 - 28,6 - 37	12,5 / 2	•				•	
VT40411--L P6	20 000	16 000	12 500	8,2 - 11 - 14,3 - 18,5 - 23,8	4 / 0,6	•				•	
VT40411--N P6		16 000	12 500	8,2 - 11 - 14,3 - 18,5 - 23,8	5 / 0,8	•				•	
VT40411--N P7	20 000			8,2 - 11 - 14,3 - 18,5 - 23,8	5 / 0,8	•				•	
VT40411--R P7		16 000	12 500	8,2 - 11 - 14,3 - 18,5 - 23,8	6,3 / 1	•				•	
VT40611--L P6	30 000	25 000		5,5 - 7,3 - 9,5 - 12,3 - 15,9	2,5 / 0,4	•				•	
VT40611--N P6		25 000		5,5 - 7,3 - 9,5 - 12,3 - 15,9	3,2 / 0,5	•				•	
VT40611--N P7	30 000			5,5 - 7,3 - 9,5 - 12,3 - 15,9	3,2 / 0,5	•				•	
VT40611--R P7		25 000		5,5 - 7,3 - 9,5 - 12,3 - 15,9	4 / 0,6	•				•	
VT40811--L P6	40 000			5,8 - 7,2 - 9,3 - 11,9	2 / 0,3	•				•	
VT40811--N P7	40 000			5,8 - 7,2 - 9,3 - 11,9	2,5 / 0,4	•				•	
VT41011--N P7		1Bm / 50 000		5,8 - 7,2 - 9,3 - 11,9	2 / 0,3	•				•	
VT40421--L P6	10 000	8 000	6 300	20 - 25,7 - 33	8 / 1,3	•				•	
VT40421--N P6		8 000	6 300	20 - 25,7 - 33	10 / 1,6	•				•	
VT40421--N P7	10 000			20 - 25,7 - 33	10 / 1,6	•				•	
VT40421--R P7		8 000	6 300	20 - 25,7 - 33	12,5 / 2	•				•	
VT40821--L P6	20 000	16 000	12 500	10 - 12,8 - 16,5 - 21,2 - 27,9 - 33,7	4 / 0,6	•				•	
VT40821--N P6		16 000	12 500	10 - 12,8 - 16,5 - 21,2 - 27,9 - 33,7	5 / 0,8	•				•	
VT40821--N P7	20 000			10 - 12,8 - 16,5 - 21,2 - 27,9 - 33,7	5 / 0,8	•				•	
VT40821--R P7		16 000	12 500	10 - 12,8 - 16,5 - 21,2 - 27,9 - 33,7	6,3 / 1	•				•	
VT41221--L P6	30 000	25 000		6,6 - 8,5 - 11 - 14,1 - 18,6 - 22,4	2,5 / 0,4	•				•	
VT41221--N P6		25 000		6,6 - 8,5 - 11 - 14,1 - 18,6 - 22,4	3,2 / 0,5	•				•	
VT41221--N P7	30 000			6,6 - 8,5 - 11 - 14,1 - 18,6 - 22,4	3,2 / 0,5	•				•	
VT41221--R P7		25 000		6,6 - 8,5 - 11 - 14,1 - 18,6 - 22,4	4 / 0,6	•				•	
VT41621--L P6	40 000			6,4 - 8,2 - 10,6 - 13,9 - 16,8	2 / 0,3	•				•	
VT41621--N P7	40 000			6,4 - 8,2 - 10,6 - 13,9 - 16,8	2,5 / 0,4	•				•	
VT42021--N P7		1Bm / 50 000		6,6 - 8,5 - 11,1	2 / 0,3	•				•	
VT50421--	20 000	16 000	12 500	4,5 - 6,7 - 10,1 - 13,5	**	•				•	
VT50821--	40 000	32 000	25 000	6,2 - 8,2 - 10,9 - 14,4	**	•				•	
VT51221--	60 000	50 000		5,9 - 7,7 - 10 - 13,2	**	•				•	
VT51621--	80 000			5,8 - 7,5 - 9,9 - 12	**	•				•	

VERLINDE LIFTING EQUIPMENT EUROLIFT BH®



Options available

The EUROLIFT BH can be equipped with a great many options and can be specifi cally adapted for special purpose uses:

- Non standard beam section width.
- Higher travelling speeds.
- Time counter.
- EUROMOTE type infrared or radio remote-control.
- Travelling movement limit switch.
- Tropicalised travelling movement and lifting motors.
- Trolley mounted on bogies.
- Special power supply voltage.
- Load limiter with 2 or 3 steps.
- Total anti-corrosion protection*.
- Stainless steel hook and hook block**.
- Covering roof for protection against rain.
- Horn controlled from push button box.
- Explosion-proof hoist.

*Except BH5.
**Up to 2.5 T only. 3.2 T and 5 T stainless steel hook block, painted hook.

Standards and hoisting regulations

CE directive. Since 1st January 1995, the “EC” standard on machines 98/37/EEC, requires manufacturers of machines to harmonise their production to comply with certain provisions, standards, national rules of practice and technical specifi cations. Each VERLINDE unit bears the “EC” label and is delivered with an “EC” certifi cate of conformity (appendix IIA) or has a built-in certificate (appendix IIB).

F.E.M. The European Handling Equipment Federation.

S.W.P. Safe Working Period. The “Safe Working Period” of the hoisting unit is determined in terms of average type of use of the hoisting mechanism, load range and utilisation group. After this period has elapsed, the unit must undergo a the general overhaul as prescribed by the maker.

Class of operation. In accordance with FEM classification, two fundamental criteria must be allowed for: the level of load and stress of the hoist, and the operating categories (related to the average daily use and hoisting movement of the unit).

ISO standard. The utilisation groups can also be defi ned in terms of ISO groups (1Am = M4, 2m =M5, 3m = M6,...).

Type of duty.

- **Light service.** The unit is subjected to maximum loads only under exceptional circumstances, with very light loads the majority of the time.
- **Medium service.** The unit handles maximum loads fairly often, and frequently light loads.
- **Heavy service.** The unit is frequently subjected to maximum loads and normally to average loads.
- **Very heavy service.** The unit is regularly subjected to loads approaching the maximum.

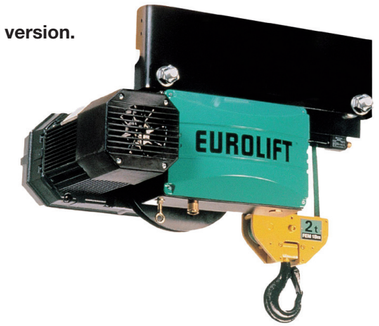
Average daily operating time in hours				≤ 0,5		≤ 1		≤ 2		≤ 4		≤ 8		≤ 16	
Class of duty				V0,25	T2	V0,5	T3	V1	T4	V2	T5	V3	T6	V4	T7
Type of service	1	L1	Light					1Bm	M3	1Am	M4	2m	M5	V4	M6
	2	L2	Medium		1Bm	M3	1Am	M4	2m	M5	3m	M6			
	3	L3	Heavy	1Bm	M3	1Am	M4	2m	M5	3m	M6				
	4	L4	Very heavy	1Am	M4	2m	M5	3m	M6						
Group								1Bm	M3	1Am	M4	2m	M5	3m	M6
Duty factor**								25%		30%		40%		50%	
Number of start-ups per hour								150		180		240		300	

F.E.M. 9511 standard classification
ISO standard classification.

* Operating factor in % = $\frac{\text{Hoisting time + Lowering time}}{\text{Hoisting time + Dwell time + Lowering time + Dwell}}$ x 100

Customised installations

Fixed version.



1. These hoists do not have a trolley and are designed for applications where no horizontal travel is needed.
Maximum capacity: 5,000kg.

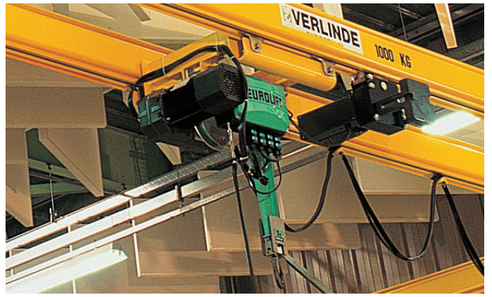
Monorail short headroom powered travel trolley (HPR).

2. These hoists feature a trolley (for moving the load in the horizontal direction) with a design enabling the user to make optimum use of the headroom and working area available for your job.
Maximum capacity: 2,000kg.

Monorail short headroom hand-push travel trolley (HPR).

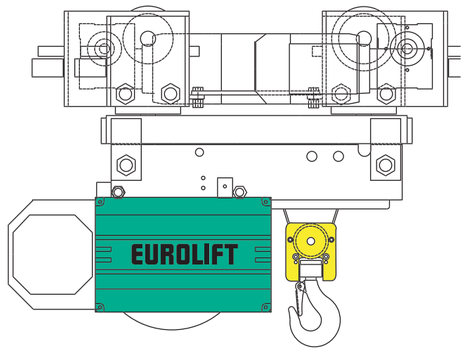
3. These hoists feature a trolley (for horizontal movement of the load) with a design enabling loads of up to 5,000kg to be moved with optimised hoisting height.

Monorail trolley into EUROSYSTEM profile.



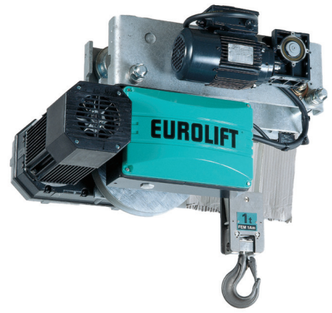
4. These hoists feature a travelling trolley (for horizontal movement of the load). They are capable of lifting a load of up to 2,000kg and moving it horizontally in a straight or curved EUROSYSTEM profile.

Monorail powered boggey trolley for curved beams.



These hoists feature a trolley (for horizontal movement of the load) with a design enabling loads of up to 2,000kg to be moved horizontaly on curved beams.

EUROLIFT BH “Stainless steel” version.



Lifting of loads of up to 2,000kg with horizontal travel in an environment with high level of relative humidity.

9

PROLIFT
HANDLING LTD

Pallet Trucks and Stackers

- Manual Pallet Trucks
- Electric Pallet Trucks
- Electric Stackers

PRAMAC GS Basic - Gs Pro - Gs Special - Gs Premium

GS series is a suitable practical solution meeting all the needs of manual handling.

For the transport of fragile and delicate loads, such as loads of glass or ceramics, the premium version includes a sensitive and safe forks lowering control system. The special series, with its broad choice of forks dimensions, guarantees solutions to handle any type of pallet; finally, the pro version, also available with a 3.000 Kg load capacity, completes the range of Lifter pallet trucks that are completely made in Italy.

GS Basic

The GS basic pallet truck is the model of access to the range of Lifter hand pallet trucks with which it shares reliability and solidity. Available with fork length 800 and 1.150mm.

GS Premium

The GS premium pallet truck offers innovative cutting-edge solutions, such as the tilt guide wheel, the load lowering speed control, the covered steering wheel, apart from a certified hydraulic unit for 50.000 Cycles.

GS Pro, Special 3 ton

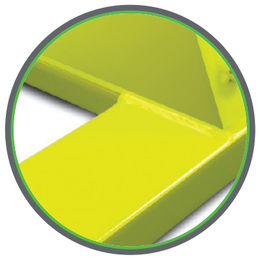
The GS pro pallet truck is equipped as a standard with a start and exit roller and a more ergonomic handle. The special series allows for the handling of pallets of any size thanks to the great variety of frames. The new 3.000Kg model offers a load capacity of 3.000 Kilograms thanks to its reinforced structure.

Maximum Pressure Valve

When the maximum load capacity is exceeded, oil pressure exceeds its maximum limit and the valve automatically locks the forks. Thus possible structural damage is avoided.

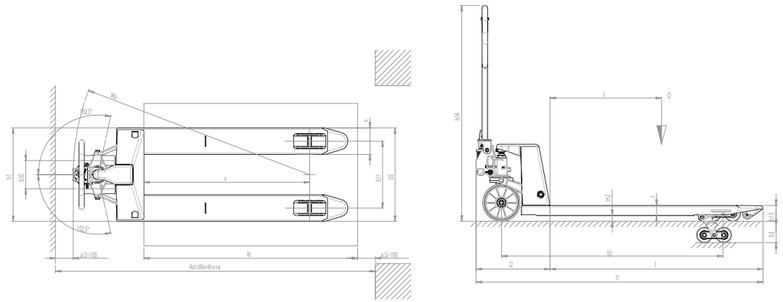
Painting

Following an appropriate conditioning operation the frame is varnished with epoxy-polyester powder at a temperature of 250° to guarantee maximum resistance to wear and atmospheric agents.



Available accessories:

- Tandem rollers
- Polyurethane rollers (as a standard on Premium)
- Rubber guide wheels
- Manual control brake



Description											
1.2	Model			GS BASIC 22 S2-S4	GS PRO 25 S2-S4	GS PREMIUM 25 S2-S4	GS/AV PRO 25 S2-S4	GS PRO 30 S4	GS/L PRO 25 S2-S4	GS/M PRO 25 S2-S4	GS B 20 S4
1.3	Drive			MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
1.4	Operator Type			PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN
1.5	Load Capacity	Q	kg	2200	2500	2500	2500	3000	2500	2500	2000
1.6	Load Centre Distance	c mm	600	600	600	600	600	600	400	600	
1.8	Load Distance, Centre of Drive Axle to Fork	x	mm	932	932	932	932	932	932	582	945
1.9	Wheel Base	y	mm	1192	1192	1192	1192	1192	1192	842	1192
Weights											
2.1	Service Weight		kg	61-63	61-63	63-65	61-63	79	66-68	52-54	71
2.2	Axle Load Laden, Front/Rear		kg	655/1606-1608	767/1794-1796	739/1824-1826	738/1823-1825	889/2190	771/1795-1797	691/1861-1863	693/1378
2.3	Axle Load Unladen, Front/Rear		kg	42/19-21	42/19-21	43/20-22	42/19-21	53/26	46/20-22	35/17-19	48/23
Tyres/Chassis											
3.1	Tyres			P/N	P/N	P/P	P/N	P/N	P/N	P/N	P/A
3.2	Tyre Size, Front (Ø X Width)			200x45	200x55	200x55	200x55	200x55	200x55	200x55	200x55
3.3	Tyre Size, Rear (Ø X Width)			82x82-60	82x82-60	82x82-60	82x82-60	82x60	82x82-60	82x82-60	50x58
3.4	Side Wheels (Ø X Width)			-	-	-	-	-	-	-	-
3.5	Wheels, Number (X=Driven) Front/Rear			2/2-2/4	2/2-2/4	2/2-2/4	2/2-2/4	2/4	2/2-2/4	2/2-2/4	2/4
3.6	Tread, Front	b10	mm	155	155	155	155	155	155	155	130
3.7	Tread, Rear	b11	mm	375	375	375	375	375	535	250	365
Dimensions											
4.4	Lift	h3	mm	115	115	115	115	115	115	115	115
4.9	Height Of Tiller In Drive Position Min/Max	h14	mm	690/1160	690/1160	690/1160	415/1250	690/1160	690/1160	690/1160	690/1160
4.15	Height, Lowered	h13	mm	85	85	85	85	85	85	85	55
4.19	Overall Length	l1	mm	1550	1550	1550	1550	1550	1550	1200	1550
4.20	Length to Face of Forks	l2	mm	400	400	400	400	400	400	400	400
4.21	Overall Width	b1	mm	525	525	525	525	525	685	400	525
4.22	Fork Dimensions	s/e/l	mm	55/150/1150	55/150/1150	55/150/1150	55/150/1150	55/150/1150	55/150/1150	55/150/800	40/160/1150
4.25	Distance Between Fork Arms	b5	mm	525	525	525	525	525	685	400	525
4.32	Ground Clearance, Centre of Wheel Base	m^2	mm	30	30	30	30	30	30	30	15
4.34	Aisle Width for Pallets 800x1200 Lengthwise	Ast	mm	1835	1835	1835	1835	1835	1835	1435	1822
4.35 T	Urning Radius	Wa	mm	1367	1367	1367	1367	1367	1367	1017	1367
Performance Data											
5.2	Lift Speed, Laden/Unladen		strokes	13/13	13/13	13/13	13/6	13/13 1	3/13	13/13	13/13

G = Rubber, N = Nylon, P = Polyurethane, A = Steel, NE = Nylon extra

Fork Length	l mm		600	800	950	1000	1150	1220	1350	1500	1800	2000
Load Centre Distance	c	mm	300	400	475	500	600	610	675	750	900	1000
Wheels, Number (X=Driven) Front/Rear			2/2-2/4	2/2-2/4	2/2-2/4	2/2-2/4	2/2-2/4	2/2-2/4	2/4	2/4	2/4	2/4
Overall Length	l1	mm	1000	1200	1350	1400	1550	1620	1750	1900	2200	2400
Load Distance, Centre of Drive Axle to Fork	x	mm	382	582	732	782	932	1002	1132	1282	1582	1782
Wheel Base	y	mm	642	842	992	1042	1192	1262	1392	1542	1842	2042
Service Weight		kg	52-54	57-59	59-61	60-62	63-65	65-67	90	112	127	134
Axle Load Laden, Front/Rear		kg	356/2196-2198	580/1017-1435	688/1871-1873	716/1844-1846	739/1824-1826	821/1744-1746	880/1710	929/1717	1002/1625	1037/1597
Axle Load Unladen, Front/Rear		kg	37/15-17	40/17-19	40/19-21	39/21-23	43/20-22	44/21-23	59/31	66/46	76/51	80/54
Turning Radius	Wa	mm	817	1017	1167	1217	1367	1437	1567	1717	2017	2217

PRAMAC GS Mr. Hydro

Mr. Hydro series, which is available in a several number of versions, is the ideal tool to handle loads in humid and damp conditions.

In particular the stainless steel model is suitable for environments where high hygienic standards are enforced, such as the chemical, pharmaceutical or food & beverage industry.

GS/G

The galvanised pallet truck offers good resistance to corrosion thanks to the hot dip galvanizing process of the frame, the control linkages of the pump body and the handle.

GS/X

In this version the parts getting in contact with the load and the operator are of aisi 304 electropolished stainless steel, while the remaining parts are subject to a hot dip galvanising treatment.

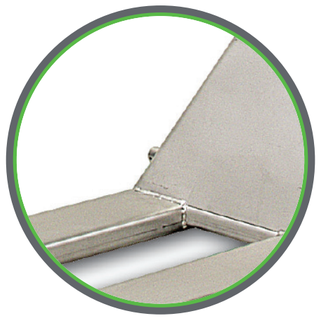
GS/I

Inox aisi 304 electropolished stainless steel is used for all metal sheet parts, while the pump is made of brass.

GS/Galvanised, Stainless Steel and Galvinox

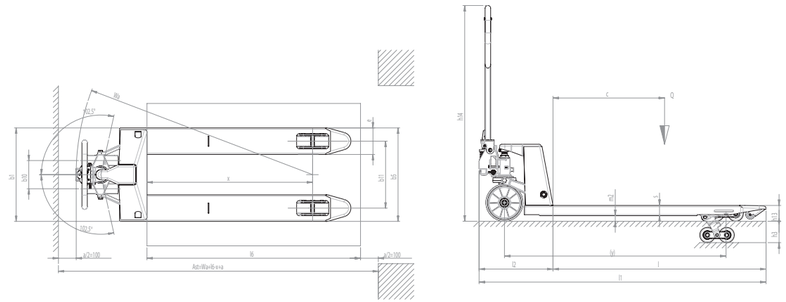
Hydraulic Pump Made of Brass

In the stainless steel version the hydraulic pump is made of brass to offer maximum resistance to humidity and oxidation.



Electropolishing

The use of Inox AISI 304, combined with an electropolishing surface treatment, provides the machine with better appearance. Resistance to corrosion also guarantees maximum hygiene.



Description								
1.2	Model			GS/G 25 S2-S4	GS/X 25 S2-S4	GS/I 25 S2-S4	GS/L G 25 S2-S4	GS/M G 25 S2-S4
1.3	Drive			MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
1.4	Operator Type			PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN
1.5	Load Capacity	Q	kg	2500	2500	2500	2500	2500
1.6	Load Centre Distance	c	mm	600	600	600	600	400
1.8	Load Distance, Centre of Drive Axle to Fork	x	mm	932	932	932	932	582
1.9	Wheel Base	y	mm	1192	1192	1192	1192	842
Weights								
2.1	Service Weight		kg	61-63	62-64	67-69	66-68	52-54
2.2	Axle Load Laden, Front/Rear		kg	738/1823-1823	739/1823-1825	742/1825-1827	771/1795-1797	575/1977-1979
2.3	Axle Load Unladen, Front/Rear		kg	42/19-21	43/19-21	46/21-23	46/20-22	35/17-19
Tyres/Chassis								
3.1	Tyres			N/N	NE/NE	NE/NE	N/N	N/N
3.2	Tyre Size, Front (Ø X Width)			200x50	200x50	200x50	200x50	200x50
3.3	Tyre Size, Rear (Ø X Width)			82x82-60	82x82-60	82x82-60	82x82-60	82x82-60
3.4	Side Wheels (Ø X Width)			-	-	-	-	-
3.5	Wheels, Number (X=Driven) Front/Rear			2/2-2/4	2/2-2/4	2/2-2/4	2/2-2/4	2/2-2/4
3.6	Tread, Front	b10	mm	155	155	155	155	155
3.7	Tread, Rear	b11	mm	375	375	375	535	250
Dimensions								
4.4	Lift	h3	mm	115	115	115	115	115
4.9	Height Of Tiller in Drive Position Min/Max	h14	mm	690/1160	690/1160	690/1160	690/1160	690/1160
4.15	Height, Lowered	h13	mm	85	85	85	85	85
4.19	Overall Length	l1	mm	1550	1550	1550	1550	1200
4.20	Length to Face of Forks	l2	mm	400	400	400	400	400
4.21	Overall Width	b1	mm	525	525	525	685	400
4.22	Fork Dimensions	s/e/l	mm	55/150/1150	55/150/1150	55/150/1150	55/150/1150	55/150/800
4.25	Distance Between Fork Arms	b5	mm	525	525	525	685	400
4.32	Ground Clearance, Centre of Wheel Base	m^2	mm	30	30	30	30	30
4.35	Turning Radius	Wa	mm	1367	1367	1367	1367	1017
Performance Data								
5.2	Lift Speed, Laden/Unladen		strokes	13/13	13/13	13/13	13/13	13/13
Component Specifications								
	Hydraulic Unit			GALVANIZED	GALVANIZED	BRASS	GALVANIZED	GALVANIZED
	Frame			GALVANIZED	INOX	INOX	GALVANIZED	GALVANIZED
	Push Rods			GALVANIZED	GALVANIZED	INOX	GALVANIZED	GALVANIZED
	Rocker Arm			GALVANIZED	GALVANIZED	INOX	GALVANIZED	GALVANIZED
	Wheels			NYLON	NYLON EXTRA	NYLON EXTRA	NYLON	NYLON
	Load Rollers			NYLON	NYLON EXTRA	NYLON EXTRA	NYLON	NYLON
	Tiller			GALVANIZED	INOX	INOX	GALVANIZED	GALVANIZED

G = Rubber, N = Nylon, P = Polyurethane, A = Steel, NE = Nylon extra

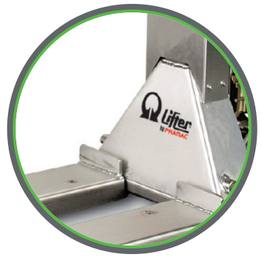
Fork Length	l	mm	800	1150	1220
Load Centre Distance	c	mm	400	600	610
Wheels Number (X=Driven) Front/Rear			2/2-2/4	2/2-4/2	2/2-2/4
Overall Length	l1	mm	1200	1550	1620
Load Distance, Centre of Drive Axle to Fork	x	mm	582	932	1002
Wheel Base	y	mm	842	1192	1262
Service Weight		kg	55-57	61-63	63-65
Axle Load Laden, Front/Rear		kg	579/1976-1978	738/1823-1825	820/1743-1745
Axle Load Unladen, Front/Rear		kg	39/16-18	42/19-21	43/20-22
Turning Radius	Wa	mm	1017	1367	1437
Aisle Width for Pallets 800x1200-L Lengthwise	Ast	mm	1435	1835	1855

PRAMAC GS/P25 - PX20

The Lifter scale truck series is available in two models, both of which equipped with an intelligent weighing device with many operating options. It is suitable for lifting and carrying heavy loads; it is therefore very precise and functional in all internal weighing operations.

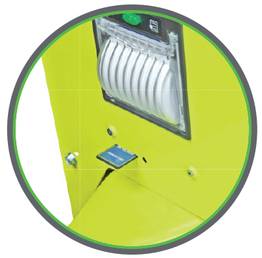
Display

The PX20 pallet truck is a simple, economic and robust tool to be used for the weighing of transported loads. Its large-sized LCD display allows for easy reading of weight and the setting of tare simply and immediately.



Frame Structure

The structure is made up of a double frame and a lower fork on which a counter fork is placed; both forks house four load cells that allow for a uniform load distribution, thus keeping weighing precision even in case of collision and unbalanced load.

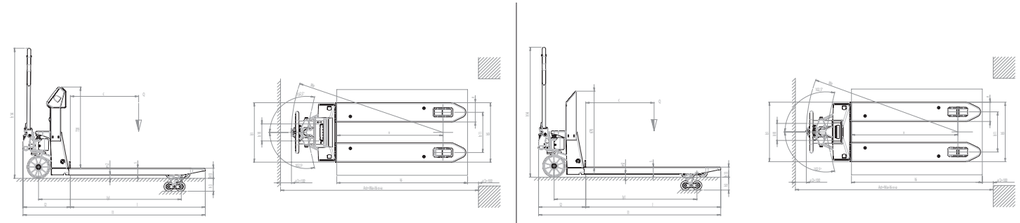


GS/P25 - Stainless Steel

GS/P differs from PX20 due to its hydraulic unit of higher load capacity (2.500 kg) and the bigger number of functions, such as the items counter and the load totalization indicator. The pallet truck may also be equipped with a thermal printer, memory card SD or may be provided in the INOX version.

Memory Card SD

GS/P pallet truck is available with printing on SD memory card and approved weighing.



GS/P PX20

Description							
1.2	Model			GS/P	GS/P CE-M HOMOLOGATION	GS/P INOX	PX20
1.3	Drive			MANUAL	MANUAL	MANUAL	MANUAL
1.4	Operator Type			PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN
1.5	Load Capacity	Q	kg	2500	2500	2500	2000
1.6	Load Centre Distance	c	mm	600	600	600	600
1.8	Load Distance, Centre of Drive Axle to Fork	x	mm	975,5	975,5	975,5	975
1.9	Wheel Base	y	mm	1250	1250	1250	1255
Weights							
2.1	Service Weight		kg	124	124	132	113
2.2	Axle Load Laded, Front/Rear		kg	787/1837	787/1837	790/1842	633/1480
2.3	Axle Load Unladen, Front/Rear		kg	77/47	77/47	82/50	71/42
Tyres/Chassis							
3.1	Tyres			P/P	P/P	NE/NE	P/P
3.2	Tyre Size, Front (Ø X Width)			200x55	200x55	200x50	200x55
3.3	Tyre Size, Rear (Ø X Width)			82x60	82x60	82x60	82x60
3.4	Side Wheels (Ø X Width)			-	-	-	-
3.5	Wheels, Number (X=Driven) Front/Rear			2/4	2/4	2/4	2/4
3.6	Tread, Front	b10	mm	155	155	155	155
3.7	Tread, Rear	b11	mm	375	375	375	375
Dimensions							
4.4	Lift	h3	mm	115	115	115	115
4.9	Height Of Tiller in Drive Position Min/Max	h14	mm	690/1160	690/1160	690/1160	690/1160
4.15	Height, Lowered	h13	mm	90	90	90	90
4.19	Overall Length	l1	mm	1596	1596	1596	1596
4.20	Length to Face of Forks	l2	mm	411	411	411	411
4.21	Overall Width	b1	mm	555	555	555	555
4.22	Fork Dimensions	s/e/l	mm	60/180/1185	60/180/1185	60/180/1185	60/180/1185
4.25	Distance Between Fork Arms	b5	mm	555	555	555	555
4.32	Ground Clearance, Centre of Wheel Base	m^2	mm	30	30	30	30
4.34	Aisle Width for Pallets 800x1200 Lenghtwise	Ast	mm	1851	1851	1851	1815
4.35	Turning Radius	Wa	mm	1426	1426	1426	1390
Performance Data							
5.2	Lift Speed, Laden/Unladen		strokes	13/13	13/13	13/13	13/13
Scale							
6.4	Battery Voltage, Nominal Capacity		V/Ah	6/4	6/4	6/4	6/1,1
	Display			Liquid crystals/6 digits 25mm	Liquid crystals/6 digits 25mm	Liquid crystals/6 digits 25mm	Liquid crystals/6 digits 25mm
	Units Of Measurement			kg/lb	kg/lb	kg/lb	kg/lb
	Functions			Tare/Auto-off/Weight totalizer/Piece counting	Tare/Auto-off/Weight totalizer/Piece counting	Tare/Auto-off/Weight totalizer/Piece counting	Tare/Unbalanced Load/ Auto-off
	Autonomy		h	50	50	50	30
	Precision		% full scale	0,05	0,05	0,05	0,05
	Load Cells		n.	4	4	4	4
	Division		kg	0,5	1	0,5	0,5

*G=Rubber, N=Nylon, P=Polyurethane, A=Steel, NE=Nylon extra * On board battery charger version

Model			HX10E 1150x540 GEL/PLUS	HX10E 1500X540 GEL/PLUS	HX10E 1800x540 GEL/PLUS	HX10E 2000x540 GEL/PLUS
Service Weight		kg	145	241	265	268
Axle Load Laden, Front/Rear		kg	435/710	537/704	578/687	590/678
Axle Load Unladen, Front/Rear		kg	116/28	161/80	184/81	186/82
Overall Length	l1	mm	1720	2095	2370	2570
Length to Face of Forks	l2	mm	570	570	570	570
Aisle Width For Pallets 800x1200 Lengthwise	Ast	mm	1978	2303	2578	2778
Turning Radius	Wa	mm	1571	1946	2221	2421
Battery Voltage, Nominal Capacity C5		V/Ah	12/50	12/50	12/50	12/50
Battery Weight		kg	19	19	19	19

PRAMAC HX10M - HX10E

The HX10 series, available in manual and electric version, makes possible an easy and light lifting to a height of 800mm, thus becoming a practical work platform, which is suitable for places such as machine workshops.

This pallet truck is also able to carry out the support function and material supply along the assembly and production lines.

Front and Rear Stabilizers

The new control linkage makes the entry onto the closed side of the pallet possible by slight lifting, facilitating successive handling phases. Furthermore, a certain machine stability has been obtained using load rollers in a more advanced position and providing front stabilizers as standard equipment. Rear stabilizers, in turn, render work stable and safe even in the case of elevated loads once the 400mm of lifting up have been exceeded.

Control Lever

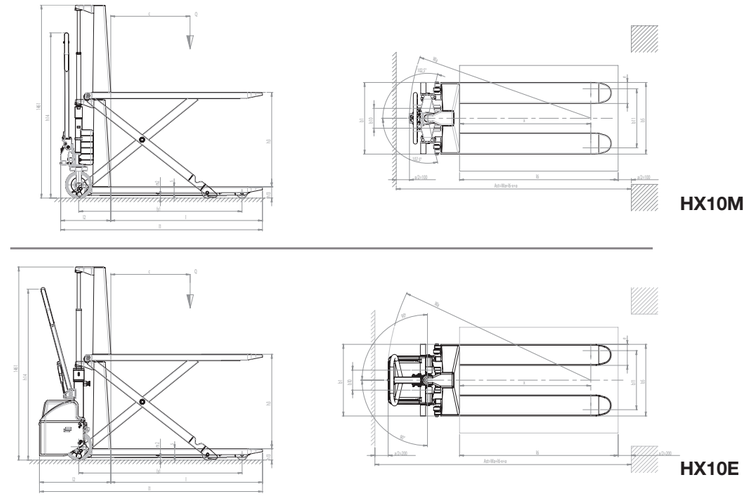
The hydraulic unit has been recently redesigned to allow for less effort at the steering wheel for all loads and a quick elevated function (30 cycles) for loads up to 150kg.

Auto Levelling System

- Automatic system whose photocell adjusts the height of the forks, maintaining the work height set.
- An optical and acoustic signal is activated at every fork movement.
- Possibility of adjusting the photocell both in height and reading angle.
- Micro-limit switch, active both on the way up to prevent superfluous absorption of energy and on the way down to protect the operator.

Emergency Pushbutton

The emergency pushbutton with a battery cut-off (isolator) switch function allows for a safer work.



Description										
1.2	Model			HX10M 1150x540	HX10M 1150x680	HX10E 1150x540	HX10E 1150x680	HX10E 1500x540	HX10E 1800x540	HX10E 2000x540
1.3	Drive			MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
1.4	Operator Type			PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN
1.5	Load Capacity	Q	kg	1000	1000	1000	1000	1000	1000	1000
1.6	Load Centre Distance	c	mm	600	600	600	600	762	900	1000
1.8	Load Distance, Centre of Drive Axle to Fork	x	mm	993	993	993	993	1368	1643	1843
1.9	Wheel Base	y	mm	1236	1236	1236	1236	1611	1886	2086
Weights										
2.1	Service Weight		kg	104	111	139 (144")	146	235 (240")	259 (264")	262 (267")
2.2	Axle Load Laden, Front/Rear		kg	339/765	344/767	429/710 (434/710")	434/712 (439/712")	531/704 (536/704")	572/687 (577/687")	584/678 (589/678")
2.3	Axle Load Unladen, Front/Rear		kg	79/25	84/27	111/28 (116/28")	116/30	155/80 (160/80")	178/81 (183/81")	180/82 (185/82")
Tyres/Chassis										
3.1	Tyres			P/P	P/P	G/P	G/P	G/P	G/P	G/P
3.2	Tyre Size, Front (Ø X Width)			200x45	200x45	200x50	200x50	200x50	200x50	200x50
3.3	Tyre Size, Rear (Ø X Width)			80x50	80x50	80x50	80x50	80x50	80x50	80x50
3.4	Side Wheels (Ø X Width)			-	-	-	-	-	-	-
3.5	Wheels, Number (X=Driven) Front/Rear			2/2	2/2	2/2	2/2	2/2	2/2	2/2
3.6	Tread, Front	b10	mm	150	150	150	150	150	150	150
3.7	Tread, Rear	b11	mm	447	587	447	587	447	447	447
Dimensions										
4.4	Lift	h3	mm	715	715	715	715	715	715	715
4.9	Height Of Tiller in Drive Position Min/Max	h14	mm	415/1250	415/1250	915/1300	915/1300	915/1300	915/1300	915/1300
4.15	Height, Lowered	h13	mm	85	85	85	85	85	85	85
4.19	Overall Length	l1	mm	1526	1526	1690	1690	2065	2340	2540
4.20	Length to Face of Forks	l2	mm	376	376	540	540	540	540	540
4.21	Overall Width	b1	mm	540	680	540	680	540	540	540
4.22	Fork Dimensions	s/e/l	mm	48/160/1150	48/160/1150	48/160/1150	48/160/1150	48/160/1525	48/160/1800	48/160/2000
4.25	Distance Between Fork Arms	b5	mm	540	680	540	680	540	540	540
4.32	Ground Clearance, Centre of Wheel Base		mm	21	21	21	21	21	21	21
4.34	Aisle Width for Pallets 800x1200 Lengthwise	Ast	mm	1779	1779	1948	1948	2273	2548	2748
4.35	Turning Radius	Wa	mm	1372	1372	1541	1541	1916	2191	2391
Performance Data										
5.2	Lift Speed, Laden/Unladen		strokes	62/30	62/30	0,08/0,13	0,08/0,13	0,08/0,13	0,08/0,13	0,08/0,13
5.3	Lowering Speed, Laden/Unladen		m/s	0	0	0,13/0,06	0,13/0,06	0,13/0,06	0,13/0,06	0,13/0,06
Electric Motors										
6.2	Lift Motor Power		kW			1,6	1,6	1,6	1,6	1,6
6.4	Battery Voltage, Nominal Capacity C5	V/Ah			12/60	12/60	12/60	12/60	12/60	
6.5	Battery Weight		kg			14	14	14	14	14
8.4	Sound Level at Driver's Ear		dB(A)			67	67	67	67	67

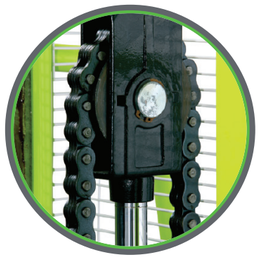
MX Manual Pallet Stacker

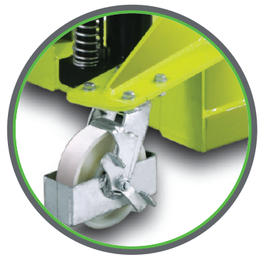
MX Series is not only an excellent compromise between price and performance but also a very resistant machine. Reinforced forks, steel pulley and forks precisely driven by rollers, are some of the main features of this stacker.

The machine is also equipped with a foot pedal to lift forks, which considerably reduces the operator's effort.

Steel Pulley

A big chain and a strong steel pulley ensure great resistance and reliability even working with the max load capacity.



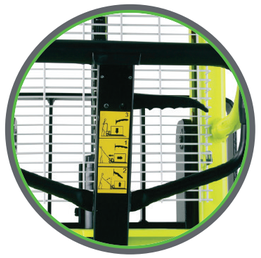


Foot Brake

The foot brake performs the parking brake function.

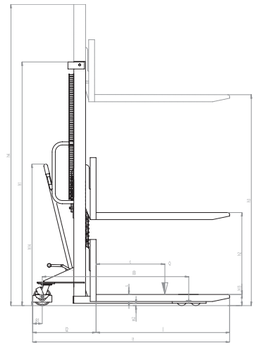
Tiller

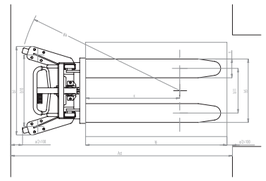
The plastic cover increases the ergonomic character of the MX handle, rendering the raising and transport operations even "lighter". The 3-position control lever (down, neutral, up) is placed on the steering wheel to foster manoeuvrability.



Max Pressure Valve

When maximum load capacity is exceeded, the oil pressure exceeds its maximum limit and the valve automatically stops the forks from lifting. In this way, possible structural damage is avoided.





Description						
1.2	Model			MX 510	MX 516	MX 1016
1.3	Drive			MANUAL	MANUAL	MANUAL
1.4	Operator Type			PEDESTRIAN	PEDESTRIAN	PEDESTRIAN
1.5	Load Capacity	Q	kg	500	500	1000
1.6	Load Centre Distance	c	mm	600	600	600
1.8	Load Distance, Centre Of Drive Axle To Fork	x	mm	800	800	800
1.9	Wheel Base	y	mm	1240	1240	1240
Weights						
2.1	Service Weight With Battery		kg	185	200	210
2.2	Axle Load Laden, Front/Rear		kg	202/483	213/487	309/901
2.3	Axle Load Unladen, Front/Rear		kg	113/72	123/77	129/81
Tyres/Chassis						
3.1	Tyres			N/N	N/N	N/N
3.2	Tyre Size, Front (Ø X Width)			150x40	150x40	150x40
3.3	Tyre Size, Rear (Ø X Width)			80x70	80x70	80x70
3.5	Wheels, Number (X=Driven) Front/Rear	2/2	2/2	2/2		
3.6	Tread, Front	b10	mm	600	600	600
3.7	Tread, Rear	b11	mm	380	380	380
Dimensions						
4.2	Height, Mast Lowered	h1	mm	1490	2080	2080
4.3	Free Lift	h2	mm	910	1510	1510
4.4	Lift	h3	mm	910	1510	1510
4.5	Height, Mast Extended	h4	mm	1490	2080	2080
4.9	Height Of Tiller In Drive Position Min/Max	h14	mm	490/1090	490/1090	490/1090
4.15	Height, Lowered	h13	mm	90	90	90
4.19	Overall Length	l1	mm	1690	1690	1690
4.20	Length To Face Of Forks	l2	mm	540	540	540
4.21	Overall Width B1/B2	mm	740	740	740	
4.22	Fork Dimensions	s/e/l	mm	60/170/1150	60/170/1150	60/170/1150
4.24	Fork-Carriage Width	b3	mm	550	550	550
4.25	Distance Between Fork Arms	b5	mm	550	550	550
4.32	Ground Clearance, Centre Of Wheel Base	m^2	mm	30	30	30
4.34	Aisle Width For Pallets 800x1200 Lengthwise	Ast	mm	2166	2166	2166
4.35	Turning Radius	Wa	mm	1400	1400	1400
Performance Data						
5.2	Lift Speed, Laden/Unladen		m/s	37/37	73/73	73/73
5.3	Lowering Speed, Laden/Unladen		m/s	0.16/0.05	0.16/0.05	0.12/0.03
5.10	Service Brake			-	-	-
Electric Motors						
6.2	Lift Motor Power		kW	-	-	-
6.4	Battery Voltage, Nominal Capacity C5		V/Ah	-	-	-
6.5	Battery Weight		kg	-	-	-
8.4	Sound Level At Driver's Ear		dB(A)	-	-	-

G = Rubber, N = Nylon, P = Polyurethane, A = Steel, NE = Nylon extra

Electric Pallet Trucks

EP F4

1500kg Revolutionary Pallet Truck

- All rounder for diverse applications
- Reduce operator effort and increase efficency
- Small size (l2=400mm) and reduced weight (120kq)
- Up to 2 x 24V - 20Ah removable Li-ion batteries
- Removable storage compartment
- Available in different forks length and width

F4			
Model designation			F4
Drive			Electric
Load capacity	Q	kg	1,500
Load center distance	c	mm	600
Service weight		kg	120
Length to face of forks	l2	mm	400
Overall width	b1/b2	mm	590/695
Fork dimensions	s/e/l	mm	55/150/1150
Turning radius	Wa	mm	1,360
Max. gradeability, laden/unladen		%	6/16
Battery voltage/nominal capacity		V/Ah	24/20

F4 – All-rounder for diverse applications

F4 brings maximum flexibility in configurations for every application, from occasional usage to heavy duty. Featuring a two power slot design, F4 offers the option of two 24V/20Ah batteries to maximize uptime for full-time applications. The standard single-battery setting comes with a portable storage container to keep everything easily accessible on the go. Its versatility makes F4 an all-rounder, perfect for diverse tasks in the most cost effective way.

Heavy-duty

Occasional usage

Portable storage container

Why F Series?

- **Platform-based design to maximise competitive advantage in the market**

F series features the platform F, which simplifies the configuration of the truck and allows buyers to choose from 4 different chassis by application. The product design provides value and creates a flexible product strategy by introducing new equipment that meets various market requirements.

- **Cost-saving operations throughout the distribution cycle**

4 units per box as standard wholesale supply reduces overall spending through the entire distribution process. F4 accommodates 176 units in a 40’ shipping container compared to 108 units of EPT12-EZ, that can reach as high as 30-40% of ocean freight charges reduction.

EP EPL154

1500kg Electric Pallet Truck

- Industrial floating stabilizing wheels for maximum stability
- Small size (l2=400mm) and reduced weight (160kq)
- 24V-30Ah removable Li-ion battery with metal protection cover
- Fast charging trought integrated charger
- Turtle button for operation in narrow spaces
- Available in different forks length and width

EPL154			
Model designation			EPL154
Drive			Electric
Load capacity	Q	kg	1,500
Load center distance	c	mm	600
Service weight		kg	160
Length to face of forks	l2	mm	400
Overall width	b1/b2	mm	610/695
Fork dimensions	s/e/l	mm	55/150/1150
Turning radius	Wa	mm	1,330
Max. gradeability, laden/unladen		%	6/16
Battery voltage/nominal capacity		V/Ah	24/30

EPL154 – Features

- **Optimized structure, easy operation**

The metal protective cover of battery can be flipped over, which can effectively protect the battery;

The battery has simple cover with two combination modes, it can prevent the battery from plugging and unplugging at will.

- **New design of plug-in&out battery**

The truck uses on-board chargers and it can be charged whenever and wherever you want.

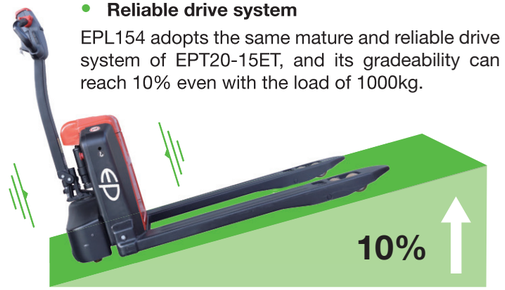
The truck can be equipped with Li-Ion batteries of 30Ah, which can meet different kinds of working condition. Li-ion battery developed by EP is equipped with BMS(battery management system), which is more convenient to use.

- **Rigorous design, stable operation**

It is equipped with industrial floating universal wheels as standard and offers great passability.

- **Reliable drive system**

EPL154 adopts the same mature and reliable drive system of EPT20-15ET, and its gradeability can reach 10% even with the load of 1000kg.



EPL185

1,800kg Electric Pallet Truck

- Industrial floating stabilizing wheels for maximum stability
- Small size (l2=400mm) and reduced weight (170kq)
- 48V-20Ah removable Li-ion battery with metal protection cover
- Fast charging trought integrated charger
- Turtle button for operation in narrow spaces
- Available in different forks length and width and higher battery capacity

EPL185			
Model designation			EPL185
Drive			Electric
Load capacity	Q	kg	1,800
Load center distance	c	mm	600
Service weight		kg	170
Length to face of forks	l2	mm	400
Overall width	b1/b2	mm	610/695
Fork dimensions	s/e/l	mm	55/150/1150
Turning radius	Wa	mm	1,330
Max. gradeability, laden/unladen		%	6/16
Battery voltage/nominal capacity		V/Ah	48/20

EPL185 – Features

- **Optimized structure, easy operation**

The metal protective cover of battery can be flipped over, which can effectively protect the battery;

The battery has simple cover with two combination modes, it can prevent the battery from plugging and unplugging at will.

- **New plug-in & out battery design**

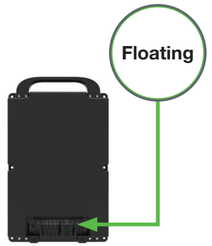
On-board charger with plug-in&out battery to satisfy different working condition. Fast charging can be optionally equipped with. Li-ion battery developed by EP is equipped with CAN and BMS, which is more convenient to use.

- **Safe**

The truck uses the second generation drive technology and brushless DC motor. There is no need to replace the carbon brush and the drive is more powerful. Its max. Gradeability can reach 10% with the load of 1300kg.

- **Rigorous design and convenient maintenance**

Floating battery cartridge to protect battery contact pins.



Electric Stackers

- Electric Stackers with smallest working space needed
- Innovative design of low eneergy consumption and high reliability
- Long & aside tiller design makes operations safe and convenient

Features

Performance

- Robust structure
- Highly specialised drive and hydraulic systemensure excellent driving performance and high reliability
- Low-noise and durable hydraulic unit, high quality cylinder as well as hose ensure high reliability of hydraulic system
- AMP connector and durable electric wires greatly reduce malfunctions of components
- Straddle chassis option offers stability of high stack operation

Safety

- Safety hydraulic design prevents mast from falling down abruptly when oil pipes cut off
- Belly button prevents truck from hitting operator
- By simply pressing emergency disconnector, power supply will be immediately interrupted
- Multi-lifting limited switch ensures travel safety
- Truck automatically switches to low speed mode when lifting height is higher than setting height
- Anti-rolling back braking device esures truck don't roll back on ramps

Operation

- Ergonomic tiller head for effortless and comfortable operations
- Tiller with long arm for smooth steering
- Compact chassis design offers smallest turning radius needed
- Side operating ensures excellent visibility
- On-board charger

Maintenence

- Maintenence-free battery
- Battery display indicator with hour meter, remind operator of charging on time)optional)
- Easy maintence - detachable rear panel
- Self-diagnostics signal on the digital display allows easy troubleshooting
- Easy access of handset
- Low-voltage cut-off protection

Electric Stacker 1.0/1.2t

ES10-10ES/ES12-12ES						
Distinguishing mark	1.1	Manufacturer			EP	EP
	1.2	Model designation			ES10-10ES	ES12-12ES
	1.3	Drive			Electric	Electric
	1.4	Operator type			Pedestrian	Pedestrian
	1.5	Load capacity	Q	kg	1,000	1,200
	1.6	Load center distance	c	mm	600	600
	1.8	Load distance centre of drive axle to fork	x	mm	795	795
	1.9	Wheelbase	y	mm	1,240	1,240
Service weight	2.1	Service weight		kg	540	661
	2.2	Axle loading, laden front/rear		kg	640/852	845/1,016
	2.3	Axle loading, unladen front/rear		kg	419/121	536/125
Tyres/chassis	3.1	Tyre type			Polyurethane	Polyurethane
	3.2.1	Tyre size, front		mm	Φ210x70	Φ210x70
	3.3.1	Tyre size, rear		mm	Φ80x60	Φ80x60
	3.4	Additional wheels (castor wheels)		mm	Φ130x55	Φ130x55
	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x+ 1/ 4	1x+ 1/ 4
	3.6.1	Tread width, front	b10	mm	533	533
	3.7.1	Tread width, rear	b11	mm	400	400
Dimensions	4.0	Max. Lift Height	H	mm	3,015	3,015
	4.2	Retracted mast height	h1	mm	2,026	2,056
	4.3	Free lift	h2	mm	— —	— —
	4.4	Lift height	h3	mm	2,927	2,927
	4.5	Height, mast extended	h4	mm	3,491	3,521
	4.6	Initial lift	h5	mm	— —	— —
	4.9	Height of tiller handle in drive position min./max.	h14	mm	860/ 1,200	860/ 1,200
	4.10	Height of wheel arms	h8	mm	— —	— —
	4.15	Lowered height	h13	mm	88	88
	4.19	Overall length	l1	mm	1,740	1,740
	4.20	Length to face of forks	l2	mm	590	590
	4.21	Overall width	b1/b2	mm	800	800
	4.22	Fork dimensions	s/e/l	mm	55/160/1,150	60/ 170/ 1,150
	4.24	Fork carriage width	b3	mm	600	680
	4.25	Distance between fork-arms	b5	mm	560	570
	4.26	Distance between wheel arms/loading surfaces	b4	mm	— —	— —
	4.31	Ground clearance, laden, below mast	m1	mm	— —	— —
	4.32	Ground clearance, center of wheelbase	m2	mm	30	30
	4.34.1	Aisle width for pallets 1,000×1,200 crossways	Ast	mm	2,225	2,225
	4.34.2	Aisle width for pallets 800×1,200 crossways	Ast	mm	2,150	2,150
	4.35	Turning radius	Wa	mm	1,408	1,408
Performance data	5.1	Travel speed, laden/unladen		km/h	4/4.5	4/4.5
	5.2	Lifting speed, laden/unladen		m/s	0.12/ 0.22	0.12/ 0.22
	5.3	Lowering speed, laden/unladen		m/s	0.12/ 0.11	0.12/ 0.11
	5.8	Max. gradeability, laden/unladen		%	3/ 10	3/ 10
	5.10	Service brake			Electromagnetic	Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 min		kW	0.65	0.65
	6.2	Lift motor rating at S3 15%		kW	2.2	2.2
	6.4	Battery voltage/nominal capacity		V/Ah	2x12/105	2x12/105
	6.5	Battery weight		kg	2x30	2x30
Addition data	8.1	Type of drive control			DC	DC
	10.5	Steering design			Mechanical	Mechanical
	10.7	Sound pressure level at the driver's ear		dB(A)	74	74

If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.

Electric Stacker 1.0/1.2t

ES10-10MM/ES12-12MM						
Distinguishing mark	1.1	Manufacturer			EP	EP
	1.2	Model designation			ES10-10MM	ES12-12MM
	1.3	Drive			Electric	Electric
	1.4	Operator type			Pedestrian	Pedestrian
	1.5	Load capacity	Q	kg	1,000	1,200
	1.6	Load center distance	c	mm	600	600
	1.8	Load distance centre of drive axle to fork	x	mm	795	795
	1.9	Wheelbase	y	mm	1,126	1,126
Service weight	2.1	Service weight		kg	462	462
	2.2	Axle loading, laden front/rear		kg	640/852	845/1016
	2.3	Axle loading, unladen front/rear		kg	641/821	741/921
Tyres/chassis	3.1	Tyre type			Polyurethane	Polyurethane
	3.2.1	Tyre size, front		mm	Φ210x70	Φ210x70
	3.3.1	Tyre size, rear		mm	Φ80x60	Φ80x60
	3.4	Additional wheels (castor wheels)		mm	Φ130x55	Φ130x55
	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x+ 1/ 4	1x+ 1/ 4
	3.6.1	Tread width, front	b10	mm	533	533
	3.7.1	Tread width, rear	b11	mm	380	380
Dimensions	4.0	Max. Lift Height	H	mm	1,605	1,605
	4.2	Retracted mast height	h1	mm	1,940	1,940
	4.3	Free lift	h2	mm	1,505	1,505
	4.4	Lift height	h3	mm	1,517	1,517
	4.5	Height, mast extended	h4	mm	1,971	1,971
	4.6	Initial lift	h5	mm	— —	— —
	4.9	Height of tiller handle in drive position min./max.	h14	mm	860/ 1200	860/ 1200
	4.10	Height of wheel arms	h8	mm	— —	— —
	4.15	Lowered height	h13	mm	88	88
	4.19	Overall length	l1	mm	1,615	1,615
	4.20	Length to face of forks	l2	mm	465	465
	4.21	Overall width	b1/b2	mm	800	800
	4.22	Fork dimensions	s/e/l	mm	60/ 170/ 1,150	60/ 170/ 1,150
	4.24	Fork carriage width	b3	mm	680	680
	4.25	Distance between fork-arms	b5	mm	550	550
	4.26	Distance between wheel arms/loading surfaces	b4	mm	— —	— —
	4.31	Ground clearance, laden, below mast	m1	mm	— —	— —
	4.32	Ground clearance, center of wheelbase	m2	mm	30	30
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2,137	2,137
	4.34.2	Aisle width for pallets 800×1200 crossways	Ast	mm	2,062	2,062
	4.35	Turning radius	Wa	mm	1,295	1,295
Performance data	5.1	Travel speed, laden/unladen		km/h	4/4.5	4/4.5
	5.2	Lifting speed, laden/unladen		m/s	0.12/ 0.22	0.12/ 0.22
	5.3	Lowering speed, laden/unladen		m/s	0.12/ 0.11	0.12/ 0.11
	5.8	Max. gradeability, laden/unladen		%	3/ 10	3/ 10
	5.10	Service brake			Electromagnetic	Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 min		kW	0.65	0.65
	6.2	Lift motor rating at S3 15%		kW	2.2	2.2
	6.4	Battery voltage/nominal capacity		V/Ah	2x12/85	2x12/85
	6.5	Battery weight		kg	2x25	2x25
Addition data	8.1	Type of drive control			DC	DC
	10.5	Steering design			Mechanical	Mechanical
	10.7	Sound pressure level at the driver's ear		dB(A)	74	74

If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.

ES14-30WA

1,400kg Electric Straddle Stacker

- Adjustable straddle design offering wide applicability across various pallets
- Great maneuverability in narrow spaces thanks to turtle speed
- Standard proportional lifting system ensuring precise lifting
- Powerful AC vertical traction motor
- LI-ion battery option for flexibility and convenience

Manufacturer			EP
Model designation			ES14-30WA
Drive			Electric
Load capacity	Q	kg	1,400
Load center distance	c	mm	600
Service weight		kg	1,320
Lift height	h3	mm	3,140
Height, mast extended	h4	mm	4,115
Length to face of forks	l2	mm	917
Overall width	b1/b2	mm	1270/1370/1,470
Fork dimensions	s/e/l	mm	40/100/1,070
Turning radius	Wa	mm	1,545
Max. gradeability, laden/unladen		%	8/10
Travel speed, laden/unladen		km/h	5.5/6.0
Lifting speed, laden/unladen		m/s	0.127/0.23
Lowering speed, laden/unladen		m/s	0.26/0.20
Battery voltage/nominal capacity		V/Ah	24/210

Features

Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Emergency reverse belly button protects the operator from getting hurt.
- Emergency disconnector will cut off power source to avoid accident when truck goes out of control.
- Multiple lifting limit protection ensures safety.
- Automatic switch to lower speed when the fork reaches its setting height.
- Anti-rolling back brake keeps the truck from skidding down when truck is out of control or travelling on ramp.
- Long operational tiller ensures safety distance for operators.

Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently and comfortably.
- Long tiller reduces the steering force greatly.
- Creep speed function: when tiller is in near vertical position, the driving speed will decrease automatically, allowing delicate operation in confined space.
- Side-open battery design for easy battery replacement and various applications.

Performance

- The innovative AC system offers strong power, accurate control,excellent performance.
- High strength vertical gearbox, longer working life.
- Low-noise but durable hydraulic unit, good quality cylinder as well as hose ensure the high reliability of hydraulic system.
- AMP connector and durable electric wires greatly reduce malfunctions of components.
- H shape channel mast improves the strength of the whole truck.
- Staddle design ensures the stability of high lifting.

Maintenance

- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Easily remove the back cover by only loosing four bolts; Access to all key components for inspection, maintenance and replacement.
- Vertical motor makes the inspection and service much more convenient.
- Control system allows easy trouble-shooting.
- Mast and chassis are assembled together, easy for maintenance.
- Low voltage cut off setting protects batteries.

ESi161

1,600kg Pedestrian Double-deck Stacker

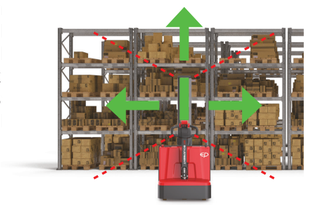
- Multipurpose mono mast Li-Ion battery stacker with initial lifting
- Double lifting allow to move 2 pallets at the time and easily drive on ramps and uneven floor
- Central driving with stabilizing wheels for better handling, traction and stability
- Turtle button to operate in narrow spaces
- Fast charging trought integrated charger

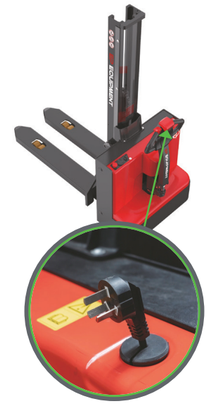
Manufacturer			EP
Model designation			ESi161
Drive			Electric
Load capacity	Q	kg	1,600
Load center distance	c	mm	600
Service weight		kg	510
Lift height	h3	mm	1,520
Height, mast extended	h4	mm	1,986
Length to face of forks	l2	mm	618
Overall width	b1/b2	mm	800
Fork dimensions	s/e/l	mm	55/190/1,150
Turning radius	Wa	mm	1,473
Max. gradeability, laden/unladen		%	3/10
Travel speed, laden/unladen		km/h	4/4.5
Lifting speed, laden/unladen		m/s	0.1/0.12
Lowering speed, laden/unladen		m/s	0.1/0.07
Battery voltage/nominal capacity		V/Ah	24/80

Features

- **All round visibility ensuring safety and precision**

The mono mast with a transparent panel offers an optimal view of the fork tips, which ensures precise stacking and retrieval safety.





- **Lithium technology with integrated charger**

The ESi161 adopts a Li-ion battery and an integrated charger as standard to increase uptime thanks to flexible and fast charging support.

- **Compact design and turtle button for great maneuverability**

The compact chassis and the turtle button qualify ESi161 for high maneuverability when loading and unloading in confined spaces or lorries.

- **Middle drive wheel for easy traction and operation**

The ESi161 demonstrates higher maneuverability in narrow aisles due to the centralized drive wheel. The truck provides better traction compared to the ones with offset drives.

ESL122

1,200kg Pedestrian Stacker

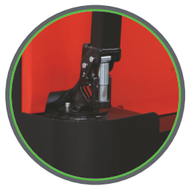
- Compact duplex mast stacker for light duty application with the advantages of Li-Ion batteries
- Rigid frame and lateral drive for high stability
- Simple design, made with industry-proven components
- Turtle button to operate in narrow spaces
- Fast charging trought integrated charger

Manufacturer			EP
Model designation			ESL122
Drive			Electric
Load capacity	Q	kg	1,200
Load center distance	c	mm	600
Service weight		kg	570
Lift height	h3	mm	1,856
Height, mast extended	h4	mm	2,430
Length to face of forks	l2	mm	563
Overall width	b1/b2	mm	792
Fork dimensions	s/e/l	mm	60/170/1,150
Turning radius	Wa	mm	1,458
Max. gradeability, laden/unladen		%	3/10
Travel speed, laden/unladen		km/h	4.2/4.5
Lifting speed, laden/unladen		m/s	0.08/0.14
Lowering speed, laden/unladen		m/s	0.1/0.1
Battery voltage/nominal capacity		V/Ah	24/80

Features

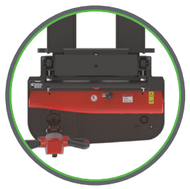
- **Strong chassis**

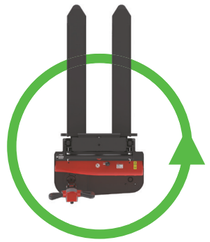
The side impact beam, plates, and boxes make the chassis stronger and can greatly reduce stress and deformation caused by heavy load.



- **Rigid mast**

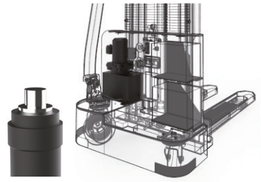
The rigidity of the mast is greatly improved by its beam structure to provide smooth lifting and stacking for daily operation.





- **Easy operation**

The extra-long and offset tiller with the crawl speed button provides ESL122 a better visibility and nimble maneuverability when operating in tight space.



- **Efficient hydraulic system**

High quality hydraulic pump ensures very little noise, maximum efficiency, durability and shortens lifting time.

WSA161

1,600kg Heavy-duty Stacker

- Heavy duty stacker designed around Li-Ion battery
- High efficency thanks to the fast lifting and lowering fork speed
- Great stacking precision with the proportional lifting and lowering fork control
- Compact design (l2 = 731mm) allow to work in very narrow aisles
- Powerful AC vertical traction motor
- Turtle button to operate in narrow spaces
- Fast charging trought integrated charger

Manufacturer			EP
Model designation			WSA161
Drive			Electric
Load capacity	Q	kg	1,600
Load center distance	c	mm	600
Service weight		kg	740
Lift height	h3	mm	1,970
Height, mast extended	h4	mm	3,000
Length to face of forks	l2	mm	731
Overall width	b1/b2	mm	800
Fork dimensions	s/e/l	mm	65/170/1,150
Turning radius	Wa	mm	1,507
Max. gradeability, laden/unladen		%	8/16
Travel speed, laden/unladen		km/h	5/5.5
Lifting speed, laden/unladen		m/s	0.2/0.26
Lowering speed, laden/unladen		m/s	0.4/0.3
Battery voltage/nominal capacity		V/Ah	24/100

Features

- **Fast lifting and lowering speeds to maximize efficiency**

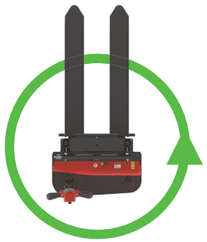
Compared to the ES-WA series, the WSA161 doubles up the lifting and lowering speeds. This contributes to fast stacking and maximized turnover efficiency in warehouses.

- **Proportional lifting system for utmost precision**

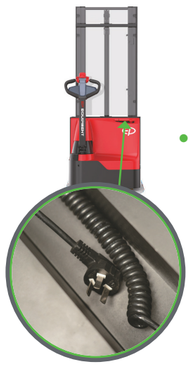
The WSA161 comes with the proportional lifting system as standard and enables the operator to stack and retrieve pallets more precisely and gently in multi-level racking.

- **Compact design offering maneuverability**

The WSA161 demonstrates a compact design with 85mm reduction in mast thickness than the ES-WA series and naturally brings a smaller turning radius 1507mm. This makes it particularly suitable for moving loads in narrow spaces.

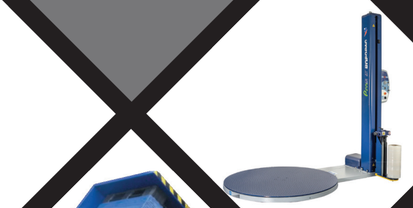


Turning radius
1507mm



- **Lithium technology with integrated charger**

The WSA161 is fully designed around the advantages of lithium technology, with 24V/100Ah Li-ion battery and an integrated charger, which allows for flexible and rapid charging and zero maintenance. 24V/205Ah Li-ion battery is optionally available for long operating period.



10

PROLIFT
HANDLING LTD

Pallet Handling Equipment

ROBOPAC Ecoplat Plus

Entry Level Turntable Stretch Wrapping Machines.

Why Ecoplat Plus?

- New hmi, more intuitive and with more features
- Reliability and sturdiness thanks to the components designed and built following the strictest safety and quality protocols
- Easy maintenance, usb port to update and download the data and software of the machine easily and quickly
- Small investment for a great saving of time and film
- Industry 4.0 Possibility of installing r-connect system

Ecoplat Plus Base Panel

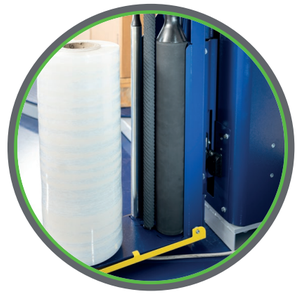
- Panel with electromechanical buttons.
- Top and bottom wraps
- Upward-downward carriage speed
- Turntable rotation speed
- Emergency stop
- IP54 - protection against dust and water

R connect

- R-connect system available (opt.)
- Max production
- Performance optimization & monitoring
- Predictive maintenance
- Downtime reduction
- Plug & play
- Industry 4.0

Ecoplat Plus FRD Panel

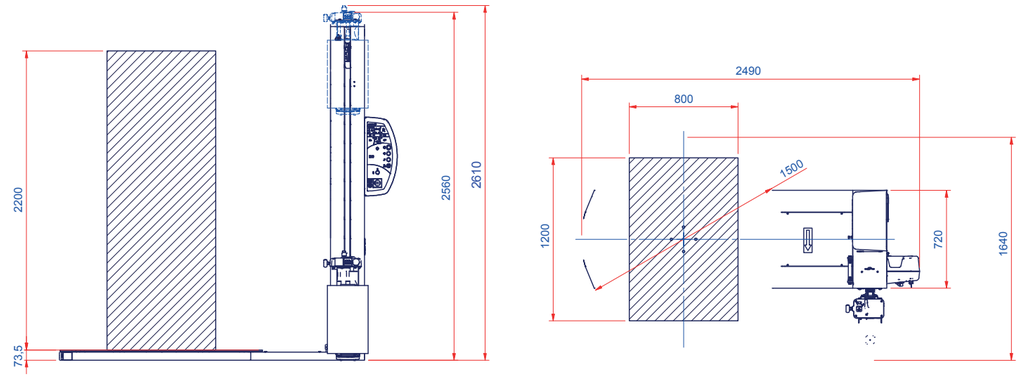
- Upward-downward cycle
- Only downward or upward cycle
- Top sheet cycle
- Manual cycle
- Eco cycle (recorded)
- Top wraps / Bottom wraps
- Reinforce wraps
- Turntable rotation speed
- Upward-downward carriage speed
- Photocell or altimeter
- Carriage ergonomic stop
- Emergency stop
- P54 - protection against dust and water



Frd Carriage

Film carriage with mechanical brake manually adjustable to set the film tensioning. Brake engagement-release device to facilitate hooking the film to the base of the pallet.

LAYOUT ECOPLAT PLUS [mm]



Technical features

Machine		Ecoplat Plus Base	Ecoplat Plus FRD
Turntable diameter and max load weight	(mm e kg)	Ø1,500mm 1,200kg (std.) Ø1,500mm 2,000kg (opt.) Ø1,650mm 2,000kg (opt.)	Ø1,500mm 2,000kg (std.) Ø1,650mm 2,000kg (opt.)
Turntable rotation speed	(rpm)	4÷10	
Carriage up-down speed	(m/min)	1.4÷4	
Film carriage type		FRD	
Film tensioning		Manual	
Film pre-stretch	n.a.	N.A.	
Maximum pallet dimensions (LxW)	(mm)	800x1200 std. 1,000x1,200 opt.	
Maximum product height	(mm)	2,200 std. 2,400 opt.	
Power supply	(V)	230 V 1Ph ±10% 50/60 Hz	
Installed power	(kW)	1.2	
Max reel dimensions (HxØ)	(mm)	500x300	
Max reel weight	(kg)	20	
Film thickness	(µm)	17÷35	
Forklifting		Front and rear	

ROBOPAC Ecowrap Plus XL

Semi-automatic rotating arm stretch wrapping machine.

Why Ecowrap Plus XL?

- Ideal for logistics
- New hmi more intuitive and with more features
- Reliability and sturdiness thanks to the
- Components designed and built following the strictest safety and quality protocols
- Easy maintenance usb port to update and download the data and software of the machine easily and quickly
- Industry 4.0 Possibility of installing R-connect system

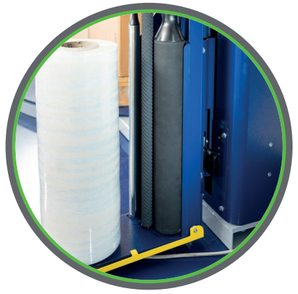
Control Panel

Panel LED display and a parameters selector by JOG.

- Only downward or upward cycle
- Upward-downward cycle
- Top sheet cycle
- Manual cycle
- Self-learning cycle
- Arm rotation speed
- Upward-downward carriage speed
- Photocell or altimeter
- Carriage ergonomic stop
- Top wraps / Bottom wraps
- Reinforce wraps
- Unlock Button
- USB port
- Emergency stop
- IP54 - protection against dust and water

Rconnect

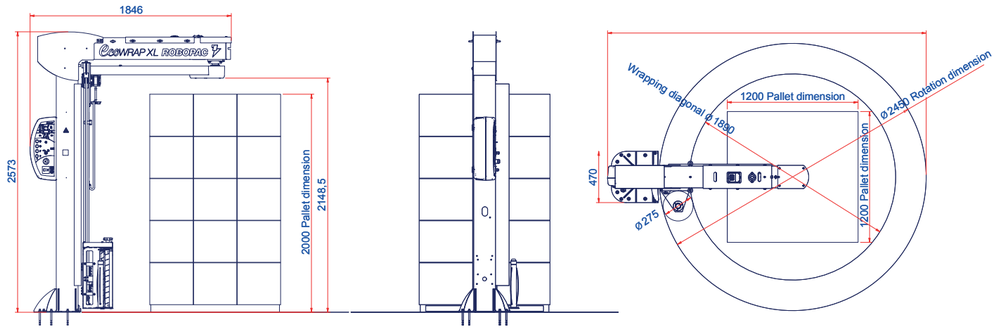
- R-connect system available (opt.)
- Max production
- Performance optimization & monitoring
- Predictive maintenance
- Downtime reduction
- Plug & play
- Industry 4.0



Frd Carriage

Film carriage with mechanical brake manually adjustable to set the film tensioning. Brake engagement-release device to facilitate hooking the film to the base of the pallet.

LAYOUT ECOWRAP PLUS XL [mm]



Technical features

Machine		Ecowrap Plus XL
Maximum product height	(mm)	2,000
Maximum product dimensions (LxW)	(mm)	1,200 x 1,200
Arm rotating speed	(rpm)	7÷11
Carriage up-down speed	(m/min)	2.6÷6
Film carriage type		FRD
Film tensioning		Manual
Film pre-stretch		N.A.
Power supply	(V)	230 V 1Ph (±10%) 50/60Hz
Max reel dimensions (HxØ)	(mm)	500x275
Max reel weight	(kg)	8
Film thickness	(µm)	17÷35
Holder for reel with core or coreless (Ø76mm)		STD

FS Inverter

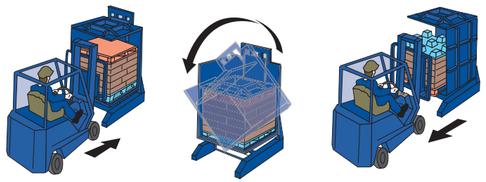
The FS is the simpler and less costly option where forklift trucks are available and ground level loading is not essential. It has a loading capacity of 2000 kgs (if you have lighter loads then please look at our DD1.25 data sheet).

Uses include

- Load transfer from wood to plastic or other hygienic pallet
- Recovery of damaged goods or broken boards from the bottom of the stack
- Switching to and from high quality in-house pallets
- Increased flexibility in pallet use enabling transfer to rental, expendable or customer pallets for distribution

Key Features

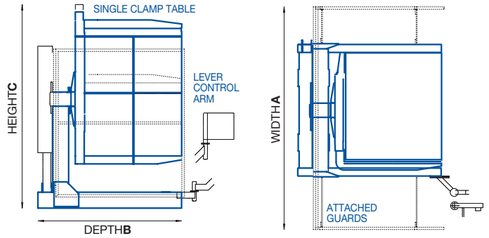
- 180 degree free-standing inverter
- Loading capacity 2,000kgs
- Single clamping table
- Loaded and relocatable by forklift truck
- Simple lever controls and attached guards
- Optional push button and automated controls plus floor fixed and photo-electric guarding



The FS is ideal for boxed, bagged or canned goods and is versatile enough to handle everything from yogurt and biscuits to bottles of wine or cement.

There are 3 standard jaw opening sizes, but we can custom-build to suit your specifications, load weights and dimensions.

Design constraints mean that it would not usually be modified to handle loads wider than 2,400mm, higher than 2,500mm or heavier than 3 tonnes.



Specifications

	FS1600	FS1900	FS2200
Usable Jaw Opening	Max 1.60m Min 0.92m	Max 1.90m Min 1.06m	Max 2.20m Min 1.13m
Standard Load Tables	Width 1.37m Depth 1.22m	Width 1.37m Depth 1.22m	Width 1.37m Depth 1.22m
Loading Capacity	2,000kgs	2,000kgs	2,000kgs
Power Supply	3ph/400V/15A	3ph/400V/15A	3ph/400V/20A
Motor Size	2.2kW	3.0kW	4.0kW
Weight	1,700kgs	1,850kgs	2,000kgs
Weight of Guards	175kgs	175kgs	175kgs
Smaller or larger models can be custom built			
Controls	All models fitted with dual hydraulic lever controls as standard. Extended individual push button controls, semi or fully auto-sequenced systems available as an option.		
Operating Space (including attached guards)	A Width 2.80m B Depth 2.10m C Height 2.56m	A Width 2.80m B Depth 2.10m C Height 2.73m	A Width 3.01m B Depth 2.10m C Height 3.16m
Depth increases to 3.30m on all machines when fitted with floor fixed guards and multi photo-beams			
Standard Shipping Dimensions (with guards fitted)	Width 2.80m Depth 2.10m Height 2.20m	Width 2.80m Depth 2.10m Height 2.30m	Width 3.01m Depth 2.10m Height 2.40m

FS DC Inverter

The FS DC is the most versatile Inverter on the market. It's loaded at ground level by pallet truck or forklift. No ramp is required which reduces the footprint.

Key Features

- Standard machine will handle loads with a height of 740mm MIN up to 2,000mm MAX
- Special models for taller loads
- Loading capacity 2,000kgs
- Versatile - can be loaded by pallet truck or FLT

The FS DC is supplied with 2,000mm high steel mesh guards as standard; with the option of extended guards and pedestrian access safety beam system.

Side bars allow fragile loads requiring reduced clamp pressure to be supported during inversion.

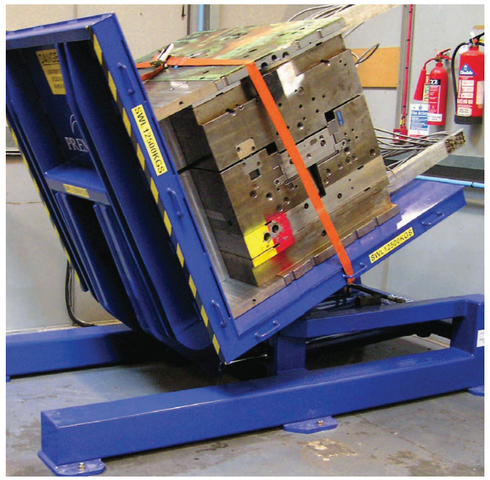
Uses include

- Transfer product from wooden to plastic or other hygienic pallet
- Recovery of damaged bags or broken pallets from bottom of stack
- Switching to/from high quality in-house pallets
- Switching to/from one trip disposable pallets
- Recover used freezer spacers from stacks of frozen food
- Transfer to ISPM15 compliant pallets for export

- Solenoid 'hold to run' push button control pendant
- Optional, space saving, high resolution safety beams
- Optional solid sidewall with ramp loading
- Optional stainless steel lining to inside of machine
- Ideal for in-line conveyor-fed applications

90º Tippers

Our range of 90 degree downenders is constructed around the loads you need to handle.



We have three basic hydraulically powered designs but each unit is custom-built to match the load it has to tip.

We also take into account your method of loading whether it is by pallet truck, forklift or crane.

Uses include

- Tipping paper reels on their sides before proceeding to unwinding
- Turning steel coils to ‘core vertical’ for palletization and transport
- Turning heavy objects in the production or maintenance programme

Key Features

- Self-contained hydraulic powerpack
- Loading capacities up to 15,000kgs
- Remote push-button pendant control
- Very low maintenance
- Heavy construction with very high overload protection
- Simple, safe and effective

V Changer

The V Changer is Premier’s latest system of pallet exchange without the manual handling of the actual pallet.

It will handle any conventional sized pallet with bottom boards and will transfer loads ranging from 60cm to 205cm in height.

Tipping the load back into a ‘V’ format is an excellent method of retaining the integrity of the stack while returning the pallet to floor level.

Uses include

- Load transfer from wood to hygienic in-house pallets
- Switching outgoing loads to shipping or one-way pallets
- Handling loads which must remain the original way up after transfer
- Suitable for block stacked loads rather than sacks

Key Features

- Pallet Latch system adjusts to suit pallets
- 110° tilt with V profile
- Flush-to-floor loading, no ramp
- Smooth, effective, semi-auto controls
- Guarding adaptable to suit the location

PALOMAT Pallet Magazines

Efficient pallet flow. No manual lifting of pallets.

Automation is one of the keywords to boost efficiency. The PALOMAT® pallet magazine automates pallet handling, increases efficiency when stacking and destacking pallets, and spares employees from the unsuitable work of manually lifting heavy pallets.

PALOMAT® can become a natural part of the work flow, e.g. in production, the warehouse, the packaging department or shops – in short, any place in a business operation where there is a need to stack and destack empty pallets at floor level.

As an innovative manufacturer, we emphasise continuous product development. While we strive to meet market demands on ergonomics, lean processes and good work environments, safety in the use of our product is of the highest importance.

Globally, “green” and eco-friendly investments are increasingly gaining attention. It is now a priority for many to reduce and completely eliminate different types of environmental impact.

We fully support this “green” movement. This is why a large part of our range is 100% AC operated. All you need is a standard 230 V outlet and you can instantly switch to more efficient and user-friendly pallet handling. It is as easy as “plug in and play”.

The PALOMAT® pallet magazine is a Danish product manufactured in Denmark since 1992.

The PALOMAT® is CE-marked, which is your guarantee for a machine that has been manufactured in conformity with the strict requirements of safety, health and environmental impact.

The PALOMAT® is sold via our dealers present in most European countries, the USA and Australia.

Your benefits with PALOMAT®

- Space saving and a tidy workplace
- Optimised pallet flow
- Improved work environment
- Reduced pallet costs
- Increased efficiency
- No manual pallet handling
- Less absence due to illness
- Reduced time spent per pallet
- Fewer back injuries, jammed fingers and feet
- Less truck driving
- Leaner – increased efficiency with less resources

PALOMAT® Greenline

AC operated · Frost-proof

Fully automatic stacking and destacking.

The PALOMAT® Greenline is completely AC operated.

Choose a PALOMAT® Greenline if you plan to both stack and destack single pallets and wish to use only electricity as the power source. The PALOMAT® Greenline is also available for handling pallets in cold rooms with temperatures as low as –25°C / –13°F.

You can place it anywhere where an AC 230V outlet is available. This will immediately give you efficient and more flexible pallet handling – if your pallet flow changes, then it is easy to reposition the PALOMAT® Greenline to a new location.

Pallets can be inserted and picked up using a hand pallet truck, electric stacker or a full-size forklift truck. All pallets are handled at floor level.

PALOMAT® Flexomatic

Air + AC

Fully automatic stacking and destacking.

The PALOMAT® Flexomatic operates on compressed air and requires electricity for control of the machine.

Choose a PALOMAT® Flexomatic if you plan to both stack and destack single pallets and wish to use compressed air + electricity as the power source.

Pallets can be inserted and picked up using a hand pallet truck, electric stacker or a full-size forklift truck. All pallets are handled at floor level.

PALOMAT® 5

AC operated · Frost-proof

Semi-automatic stacking and destacking.

The PALOMAT® 5 is completely AC operated.

Choose a PALOMAT® 5, if you plan to both stack and destack more than one pallet at a time – up to 5 together and wish to use only electricity as the power source. The PALOMAT® 5 is also available for handling pallets in cold rooms with temperatures as low as –25°C / –13°F.

You can place it anywhere where an AC 230V outlet is available. This will immediately give you efficient and more flexible pallet handling – if your pallet flow changes, then it is easy to reposition the PALOMAT® to a new location.

Pallets can be inserted and picked up using a hand pallet truck, electric stacker or a full-size forklift truck. All pallets are handled at floor level.

PALOMAT® Adjustable

Air + AC

Fully automatic stacking and destacking.

The PALOMAT® Adjustable operates on compressed air and requires electricity for control of the machine.

Choose a PALOMAT® Adjustable if you plan to both stack and destack two different pallet sizes in the same magazine – one pallet size at a time.

With PALOMAT® Adjustable, you can handle 1,200x800mm and 1,200x1,000mm pallets in one and same magazine. The shift between the two pallet sizes takes approximately 5 seconds – a light press on a button plus a manual push or pull in the pallet magazine's left side, which will afterwards adjust.

Pallets can be inserted and picked up using a hand pallet truck, electric stacker or a full-size forklift truck. All pallets are handled at floor level.

PALOMAT® ½ Pallets

AC operated · Frost-proof · Air + AC

Fully automatic stacking and destacking.

PALOMAT®½ Pallets is offered both as a Greenline (AC operated) and a Flexomatic (air + AC operated) version.

Choose a PALOMAT® ½ Pallets if you plan to both stack and destack single ½ pallets. A Greenline version for handling pallets in cold rooms with temperatures as low as –25°C / –13°F.

Pallets can be inserted and picked up using a hand pallet truck, electric stacker or a full-size forklift truck. All pallets are handled at floor level.

PALOMAT® Double Up

AC operated · Frost-proof

Semi-automatic stacking and destacking.

The PALOMAT® Double Up is completely AC operated.

Choose a PALOMAT® Double Up, if you plan to both stack and destack 1+1 pallets together in a line and wish to use only electricity as the power source. The PALOMAT® Double Up is also available for handling pallets in cold rooms with temperatures as low as –25°C / –13°F.

You can place it anywhere where an AC 230V outlet is available. This will immediately give you efficient and more flexible pallet handling – if your pallet flow changes, then it is easy to reposition the PALOMAT® to a new location.

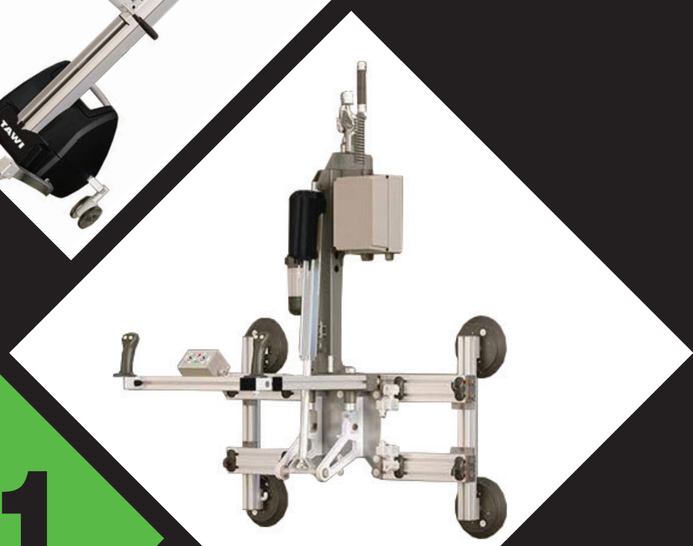
Pallets can be inserted and picked up using a hand pallet truck, electric stacker or a full-size forklift truck. All pallets are handled at floor level.

PALOMAT Get a PALOMAT® for testing

- and experience the numerous benefits.

- The PALOMAT® stacks and destacks empty pallets one at a time. All pallets are handled at floor level.
- The PALOMAT® automatically lifts/ lowers the entire pallet stack to easily allow you to insert a new pallet at floor level using e.g. a hand pallet truck. A touch panel is used to operate the machine.
- It is possible to insert a complete stack of pallets (15 or 25 pallets) or take out a complete stack from the PALOMAT® – without using a truck.

A Tidier Work Place ● **Improved Work Environment** ● **Increased Earnings**



11

PROLIFT HANDLING LTD

Material Handling Equipment

- Vacuum Systems
- Lifting Trolleys
- Industrial Manipulators
- Air Skates

TAWI Multifunctional Lifter

What do you need to lift? Choose between 12 models for lifting sacks, boxes, sheets, panels, crates, drums and much more, up to 270kg.

Lifting, moving and placing large wooden sheets with our multifunctional lifter is safe and reliable. Tilt or turn sheets up to 360°.

TAWI Multifunctional lifter is a safe and reliable tool commonly used in manufacturing and mechanical processing, warehouses and distribution terminals.

Anyone can handle goods in all sizes, up to 270kg, with practically no effort at all. No heavy lifting and no uncomfortable strain on the body means no more aching shoulders, backs, and knees.

Extremely smooth and quick operation is accomplished by using the same handle to lift, lower and release the load, and by using the vacuum to hold and lift the load.

Stainless steel models, ideal for industries with sanitary requirements, are available on request. The lift system can also be adapted for ATEX-regulated facilities.

We recommend mounting your TAWI Multifunctional lifter in our own range of crane systems. The jib arm or bridge crane suspends the lift tube and is available in different lengths and capacities.

Key features

- Lift up to 270kg without physical effort
- Lifts most types of loads, from boxes and sacks to laminate boards and cheese blocks
- Achieve drastic reduction in heavy, repetitive lifting
- Easy to use, anyone will learn how to use it within minutes
- High customization abilities
- Stainless steel models and ATEX adapted systems available on request

TAWI High Frequency Lifter

High-speed lifting has never been easier. Grip and lift boxes, baggage and other goods quickly and safely with just one hand.

Handling large and heavy boxes can easily be done by one single person with TAWI vacuum lifters.

TAWI High frequency lifter is an ergonomic and flexible lifting solution to speed up manual handling for loads up to 65kg.

The user friendly design and functionality increases productivity and reduces the risk of injury.

The lifter is versatile and can handle a great variety of goods of different size, shape and weight.

Lifting carton boxes and handling baggage are the most

common application areas for the high frequency lifter, but other industries, such as food industry clients, use the liter for handling various loads such as blocks of cheese or meat, milk cartons or wine boxes.

Key features

- High-frequency lifting
- Lift up to 65 kg without physical effort
- One-handed grip with user-friendly joystick handle
- Customized suction feet to suit your goods
- Grip from the top or from the side
- Rotate loads 360 degrees

TAWI Mobile Order Picker

This mobile vacuum lifter enables one person to do what has often been a two-man job. The order picker enables you to move quickly from pallet rack to pallet rack, picking goods onto pallet with minimal physical effort.

Achieve successful warehouse order fulfilment with our mobile order picker. The load can be rotated 360 degrees before it is placed on the pallet, facilitating efficient utilization of the pallet space.

The mobile order picker is a mobile vacuum lift unit compatible with any LLOP.

TAWI Mobile order picker offers a unique solution for orderpicking from pallet racks, shelves or conveyors. Simply pick up the lifting unit with any kind of pallet jack or truck and drag or drive wherever you need to go.

The order picker is easily adjusted in height to match the height of your pallet racks.

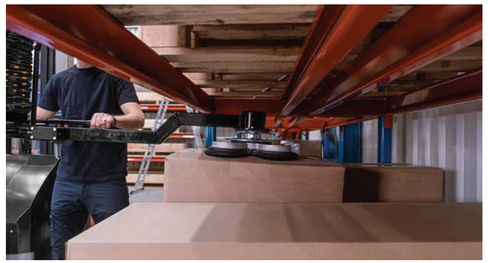
With a wide selection of suction feet, you can easily find the tool needed to lift your goods. Need to lift more than one type of load? Add a quick coupling and easily switch between tools for various types of loads.

Key features

- Mobile vacuum lifter
- Easily attached to any forklift
- Quick start-up
- Stand-alone unit
- Integrated pump/battery
- Multiple tools for lifting anything from boxes and sacks to laminate boards
- Lift up to 80 kg withoutphysical effort

TAWI Easy Reach Tool

An Easy Reach tool on your TAWI Mobile Order Picker will enable optimal efficiency in order picking and storage utilization.



Thanks to the weight distribution of the Easy Reach tool, the operator can stand comfortably in the aisle while lifting a box from the back end of a pallet in the rack.

The load can be rotated 360 degrees before it is placed on the pallet, facilitating efficient utilization of the pallet space.

Using our mobile order picker with the Easy Reach tool allows the operator to easily reach into pallet racks, picking goods from the back end of a pallet without moving a muscle. This saves the operator from lifting in uncomfortable positions.

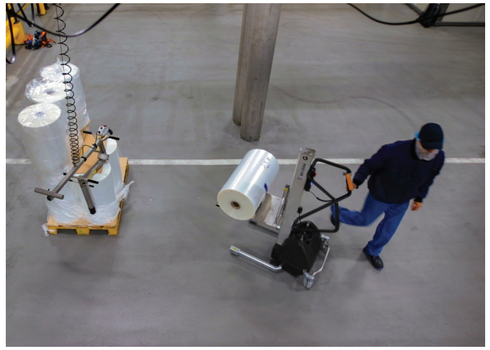
With the Easy Reach tool, you can easily pick goods stacked closely to the shelf above, allowing optimal utilization of storage space. No need to store bulky, heavy goods outside pallet racks anymore.

Key features

- High speed order picking
- Reach all the way into pallet racks
- Easily pick goods stacked closely to the shelf above
- Lift up to 50kg without physical effort
- No more bending into pallets and lifting in uncomfortable positions

TAWI Wire Hoist & Chain Hoist

TAWI offers hoists for all types of applications, providing effortless lifting without hassle.



The hoists can be easily combined with other TAWI lifting solutions. Here the wire hoist is used to lift heavy film rolls from a pallet, tilt them and then put them on a portable trolley. The trolley is then used for transporting and mounting the rolls into packaging machines.

TAWI Wire Hoist is among the fastest wire hoists on the market, lifting with both speed and precision. A wide selection of tools makes it possible to lift anything from woven sacks to metal profiles.

- Lifting capacity 60/120kg
- Up to 0.75 m/s lifting speed, variable speed control
- User-friendly joystick handle, easy and ergonomic to work with

TAWI Chain Hoist lets you handle heavier loads, up to 2,500kg. The chain hoist is characterized by its silent run and long durability, even in very tough conditions. This strong and durable hoist is even suitable for outdoor use.

- Lifting capacity <2,500kg
- IP65, suitable for outdoor use

Both hoists offer a selection of tools for handling all types of loads, anything from reels, sacks or drums to car chassis or entire walls.

Key features

- Stable precision lifting
- Low energy consumption
- Low cost of ownership
- Easy to install and requires minimal maintenance
- Lift various goods such as rolls, batteries, metal profiles and car components
- Wire Hoist - lift up to 120kg with high speed
- Chain hoist - lift up to 2,500kg

TAWI Overhead Crane Systems & Jib Cranes

TAWI crane systems are adapted for specific customer requirements, securing optimal suspension of lifters and ideal workflow for your business.

TAWI crane systems are customized to fit your business and help streamline your operations. The system can be a single girder running along a production line, or a vast system covering an entire logistics unit.

TAWI Jib Cranes can be mounted on wall or pillar and portable options are available. If mobility is important, articulating jib arms offer a great range of motion, while portable jibs can be moved around your facilities to be used wherever you need them. When you only need to lift in one place, an over braced jib crane is the strongest and most stable solution.

With a selection of standard jib cranes, and the ability to modify cranes to customer requests, we can provide an optimal solution for your business.

TAWI crane systems offer flexible solutions for mounting lifters so that you can use them wherever you need. Steel or aluminium profiles can be mounted in the ceiling or on floor pillars, built to match your facilities and business needs.

We have solutions for suspending the crane system directly in the ceiling or in roof beams. Our systems offer powerful suspension up to 1,500 kg lifting capacity and up to 8,000mm between suspension points.

Key features

- Aluminium or steel profiles
- Mounted in ceiling or on floor pillars
- Suspended directly in ceiling or in roof beams
- Move vacuum lifters or hoists by manual power or remote control
- Portable jib cranes for greater flexibility
- Customized systems, easily integrated in your workflow

Customized solutions for various industries

We offer lifting solutions used in manufacturing plants - including food, pharma, wood, automotive and chemical - as well as logistic operations at distribution centers, airports, retail stores and more.

Logistics
Chemical
Food & Beverage
Wood, steel & glass
Airports & ports
Automotive
Pharma

TAWI Lifting Trolleys

Lift, move, tilt and rotate goods up to 250kg, with optimal precision and minimal effort.

We know the importance of flexibility and mobility and that is why our portable lifting devices do not only lift but also rotate, turn and tilt goods.

Reels are tilted from vertical to horizontal position before they are conveniently mounted on a machine axis. Drums and crates are easily tilted to empty their contents with no physical effort for the operator.

The lifters' modular construction allows easy adaptation to suit your specific business needs. We provide a wide selection of tools for ergonomic handling of reels, drums, crates, boxes and more, with lifting capacities ranging between 40-250kg.

Several safety features help ensure safety for both user and load. All models are equipped with a safety mechanism that immediately stops the lifter if the tool hits an object during lowering. This means that the lifter will not tip over, but also ensures that it will not hurt anything that happens to come in the way.

Key features

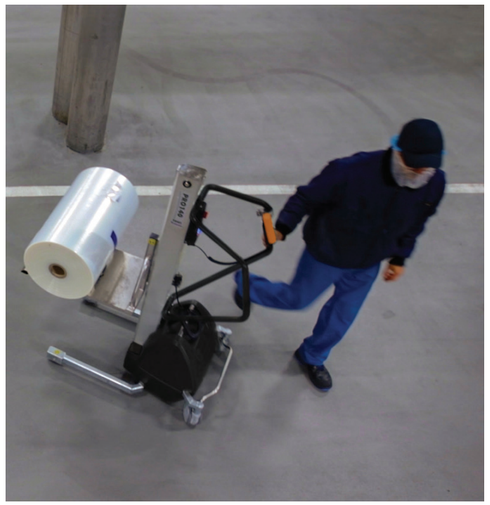
- Mobile lifting device
- Lift up to 250kg without physical effort
- Wide selection of tools for various types of loads such as reels, drums, crates and boxes
- Ability to not just lift and transport loads, but also rotate, turn & tilt goods
- Modular construction allows easy customization
- Stainless steel models and ATEX adapted trolleys available on request
- Ergonomic
- User friendly

The ergonomic design makes the lifting trolleys comfortable and easy to drive, no matter how short or tall you are.

TAWI Stainless Steel Lifters

The range of TAWI Lifting Trolleys include several stainless steel models, often used in food- or pharmaceutical manufacturing where cleanliness is of great importance.

For the most sensitive environments we offer a IP65 certified cleanroom trolley, the CR80, designed to operate in the most demanding work environments and withstand high-pressure cleaning.



Technical specifications

Model	PRO40	PRO80	PRO140	PRO180	PRO250	PRO-100ESE	PRO-200ESE	CR80
Lifting capacity (kg)	40	80	140	180	250	100	200	80
Stroke (mm) short/ medium/long	-/1040/-	860/1400/1950	840/1390/1940	840/1390/1940	-/1360/1910	-/1360/1910	-/1360/1910	1545
Weight of unit (kg) short/medium/long	-/41/-	46/50/53	69/73/78	77/81/86	-/107/113	-/115/120	-/152/158	46
Height (mm) short/ medium/long	-/1640/-	1440/1990/2540	1440/1990/2540	1440/1990/2540	-/1990/2540	-/1990/2540	-/1990/2540	1990
IP-rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24	IP65
Battery charging	100-240V, grounded 50-60Hz							
Lifts per charge	100 x 1m							
Up and down motions	Control panel (one speed)	Hand control (two speed)						Joystick (variable speed)
Front wheels	Swivelling	Swivelling	Fixed					
Brake system	Separate rear wheel brake	Central brake with directional lock						Separate rear wheel brake
Overload protection	Incorporated in circuit load							

Tools & assessories

Platform

Ergonomic handling of various goods. Two surface materials: stainless steel and checker plate.

Fold-up Platform

Flexible tool with fold up platform and fork tool. Lift boxes and crates with the same tool.

Boom

Ergonomic reel handling. Lift and transport reels onto shafts and machines without effort.

Roller Boom

Equipped with rollers for effortless loading and unloading of reels. Safety pin for safe transportation.

Tube Fork

Easy handling of reels from their outer surface.

Crane Arm with Hook

Handling of various goods. Optimal for reaching into narrow spaces.

Fork for Shafts

Precise handling of reels on shafts into machine.

Coregripper

Reel handling from the core, Ø76 and Ø152. Rotate from vertical to horizontal position.

Ladder

Optimal for pushing goods from the tool onto a shelf. Can be mounted on both sides of the lifter.

Quick Coupling

Makes it possible to easily switch tools on the lifter.

Articulating Adapter

Enables easy articulation of tools. Can be mounted between all types of tools.

TAWI Solutions for sensitive environments

Achieve maximum safety for both workers and goods with our ergonomic stainless steel lift systems, adaptable for both ATEX zones and cleanroom areas.

For sensitive environments where cleanliness is key, stainless steel lifters offer efficient lifting without compromising hygiene requirements.

All TAWI Lifting Trolleys are available in stainless steel, the star in this area is the CR80 model with IP-rating IP65 which can be cleaned with pressure washer. This lifter is commonly used in cleanroom areas in e.g. pharmaceutical manufacturing, but also food industry clients appreciate this easy-to-clean lifter.

Stainless steel vacuum lifters are available in various models lifting up to 270kg. The lifters are easy to keep clean and can be custom made to meet your specific hygiene requirements.

In hazardous environments where ATEX regulations apply, we offer vacuum systems, cranes and lifting trolleys approved for ATEX use. TAWI ATEX systems are approved for use in ATEX zone 1 and 21, 2 and 22. Contact us and get expert advice for your specific ATEX requirements.

Key features

- Stainless steel systems including vacuum lifters, crane
- systems and lifting trolleys
- Washdown, cleanroom adapted equipment
- ATEX rated solutions, approved for use in ATEX zone
- 1 and 21, 2 and 22.
- Safe and reliable material handling
- Customized systems for your requirements
- Ergonomic lifting up to 270kg

Industrial Manipulators

Our manipulators range are tested in a dedicated area with simulation of the real movements expected at the customer's site.

Thanks to an in-depth study and surveys carried out by one of our sales technicians, a series of ad hoc gripping tools are created in order to make the movement of the components as ergonomic as possible. In fact, a recent study has shown that the use of manipulators in the industrial field increases productivity by 30% thanks to the simplicity of some operations that were previously considered a problem.



The manipulators are divided into two families:
Fixed Or Sliding Column or **Wall Units**

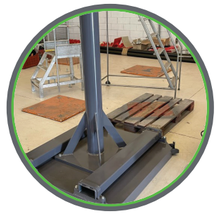
MC 100

The manipulator model MC 100 is the most sought after machine by our customers as it is particularly robust, versatile, easy to handle and equipped with specific tools, it is able to satisfy most of the manipulations in the industrial sector.

Operation exclusively with compressed air With a column fixed to the ground or on a stable car base, it allows to carry out movements with components with an offset center of gravity. Thanks to the pneumatic parking brakes it is possible to carry out operations on board while keeping the boom static.



Accessories


Forkable Base


Motorized Trolley


Travel Limiter

Gripping Tools


Spindle Coils

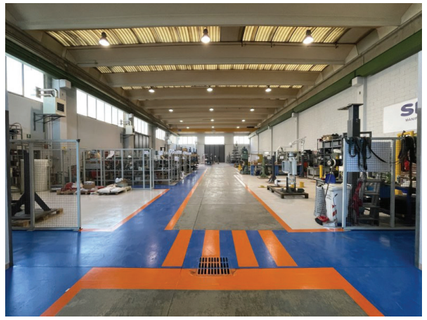

Mechanical Gears


Oil Drums


Alloy Wheels


Suckers Panels


Stators


Production place

How our supplier operates

Project: All components are produced within our suppliers headquarters in Italy by carrying our random checks to ensure their geometric and structural quality.

Preassembly: Once the check has been carried out, we proceed with the pre-assembly of the machines in order to verify that the assemblies are perfectly compatible and respect the initial project.

Testing: After the painting phase, the machines are assembled and wired within the area where the tests will be carried out.

Installation: It is performed by our specialized staff by installing the turnkey machine in the correct position to meet the coverage of the work area for which it was designed and built.





LMS Air Skates

Air Skates are a cost effective way of handling heavy and bulky loads.

Air skates are robust, low profile, high capacity load-moving modules used in sets of four or six to enable large or heavy objects to be moved with ease.

Easy to use and store

LMS Air Skate systems are easy to set up and operate. One system can be used for a variety of loads, and can be conveniently placed in the storage box provided when not in use.

Omnidirectional movement and precise positioning

LMS Air Skate systemsare omnidirectional and enable precise positioning of heavy loads in tight or narrow spaces. Normal shop compressed air is used to power the system. storage box provided when not in use.

No floor wear

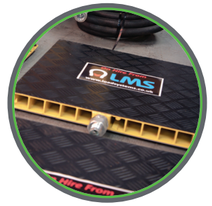
Modular Air Bearing Systems fl oat heavy loads on a thin film of air virtually eliminating friction and causing no floor wear.

How they Work

The air skates are connected with a hose manifold and supplied with compressed air. With the air turned on, the flow to each air skate is regulated to accommodate the load and floor conditions, allowing the load to be lifted clear of the floor.

Features

- Working load capacities of up to 100 tonnes and higher
- Move loads in restricted areas where forklifts/cranes cannot reach
- Easy to set up with quick release couplings
- Powered by a regular workshop air supply of 5 to 7 bar
- Easy to use and cost effective
- Low floor pressures
- Modular capability giving ultimate versatility
- Accurate and repeatable positioning with omni-directional capability
- Low profile skate modules for ease of location underneath loads



LMS Modular Air Bearing System (MLS)

Technical information for a 4-module system.

Type[1]	Capacity per set of 4[2]		Air consumption[3]		A (mm)	B (mm)	C (mm)	D (in)	E[5] (in)
	(kg)	(lbs)	Nl/min	SCFM					
MLS 412X-S-A	7000	15400	1120	39	304	31/514	15	1/2	1
MLS 415X-S-A	10000	22000	2200	77	380	31/514	20	1/2	1
MLS 418X-S-A	11200	24200	2600	92	457	58	20	3/4	1
MLS 421X-S-A	14000	31000	3000	106	534	58	25	3/4	1
MLS 427X-S-A	24000	53000	3400	120	684	65	35	3/4	1 1/2
MLS 436X-S-A	44000	97000	4000	141	914	71	50	3/4	1 1/2
MLS 418X-H-A	20000	44000	4600	162	457	58	20	3/4	1
MLS 421X-H-A	28000	62000	5200	184	534	58	25	3/4	1 1/2
MLS 427X-H-A	48000	106000	6000	212	684	65	35	3/4	1 1/2
MLS 436X-H-A	80000	176000	7000	247	914	71	50	1	1 1/2
MLS 442X-H-A	120000	265000	7500	262	1070	71	65	1	2
MLS 448X-H-A	160000	353000	8000	282	1220	71	75	1	2
MLS 460X-H-A	240000	528000	11000	388	1505	71	75	1	2

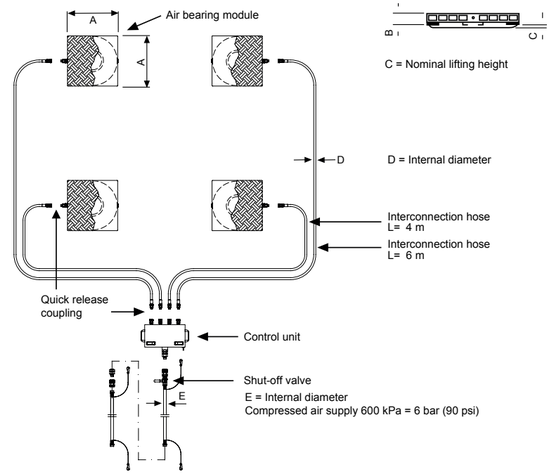
[1] A' refers to standard plastic support bars under the control unit. Other features are available under 'Options' below.
[2] The modules must be placed under the load so that each one sees no more than one quarter of the full system capacity.
[3] These fi gures refer to good floor conditions, i.e. power-trowelled and sealed concrete surfaces.
[4] Cast aluminium/Extruded aluminium construction.
[5] Supply hose ID and shut-off-valve thread size.

The Modular Air Bearing System includes:

- 4 air bearing modules
- 4 interconnection hoses with quick release couplings
- Control unit equipped with pressure regulator and gauge for each module, supply pressure gauge and plastic support bars
- 30m supply hose including shut-off valve
- Storage box, operating instructions

Optional:

- Control unit equipped with ball casters (B), assembly brackets (C) or swivel wheels (D)
- 8m or 10m interconnection hose
- 50m supply hose including shut-off valve
- Outlets for air jacks and external drive units



12

PROLIFT
HANDLING LTD

Lifting Davits and Structures

- A-Frame Gantries
- Davits
- Davit Cranes
- Crane Systems
- Jib Cranes
- Overhead Handling Systems

REID PORTAGANTRY RAPIDE®

Our unique and innovative PORTAGANTRY RAPIDE is a height-adjustable, foldable aluminium gantry designed for rapid deployment. Capable of an impressive WLL of up to 1,000kg. This system can be assembled and disassembled by just one person within a minute without the need for any tools. The PORTAGANTRY RAPIDE is the perfect solution for Confined Space Access scenarios due to its unique features and ability to lift equipment and personnel.

Key features

- EN795:2012 Certified
- ATEX Certified
- Can support goods and personnel lifting;
  - Goods WLL of up to 1,000kg
  - Personnel WLL of up to 500kg
- Suitable for up to 3 persons for fall protection applications
- Integrated wheel design that folds with the frame for ease of transportation
- Available in 3 height-adjustable versions (up to 2.9m to the lifting eye)
- Can accommodate a range of beam lengths up to 4m

250-1,000kg WII | 1-2 Person Assembly | 37-69kg Flat Pack | En795 Certified | Atex Certified

- Anodised for increased corrosion resistance
- Engineered designs and bespoke sections reduce weight, providing lightweight portability

Configurations

- The PORTAGANTRY RAPIDE is available in a range of configurations and can be customised in line with specific requirements (subject to WLL rating).

Features & Performance

Accreditations, Certifications & Standards	PGR500	PGR1000
EN795:2012	✓	✓
PD CEN / TS16415:2013	✓	✓
ANSI Z359.18-17	✓	✓
AS/NZS 5532:2013	✓	✓
ATEX Certified [Zone 2]	✓	✓
ATEX Certified [Zone 1]	×	Optional
IRATA	✓	✓
Capacity		
Maximum Goods Lifting [kg]	500	1,000
Maximum Personnel Lifting [kg]	250	500
Fall Arrest [Persons]	3	3
Dimensions		
Minimum Height of Lift (HOL) [mm]	1,450	1,430
Maximum Height of Lift (HOL) [mm]	2,920	2,880
Beam Options		
2.0m	✓	✓
2.3m	✓	×
3.0m	×	✓
4.0m	✓	✓
Trolley Options		
Master Link	✓	✓
Close Coupled	✓	✓
Sheave Carrier	✓	✓
Features		
Winch Capable	✓	✓
Foot adjustment [100mm]	✓	✓
Foldable	✓	✓
Transport Wheel	✓	✓
Asembly < 60sec	✓	✓
Finishes		
Anodised	✓	✓
Marine Spec	Optional	Optional

REID PORTAGANTRY®

Our top quality and highly durable PORTAGANTRY is lightweight and extremely strong. This portable system can be manually assembled, using just four bolts and can safely lift up to 5,000kg, making it the ideal system for multiple applications.

Key features

- EN795:2012 Certified
- ATEX Certified
- Can support goods and personnel lifting;
- Goods WLL of up to 5,000kg
- Personnel WLL of up to 2,500kg
- Suitable for up to 5 persons for fall protection applications
- Beams and A-Frames can be interchanged
- Ergonomic 360° swivel-locking castors, as standard
- Ease of assembly including height and span adjustment
- Anodised for increased corrosion resistance
- Engineered designs and bespoke sections reduce weight, providing lightweight portability

500-5,000kg WII | 1-4 Person Assembly | 92-294kg Flat Pack | En795 Certified | Atex Certified

Configurations

- The PORTAGANTRY is available in a range of configurations and can be customised in line with specific requirements (subject to WLL rating).
- The PORTAGANTRY has the ability to be moved under load. (Subject to detailed instruction and supervision by a competent person).

Features & Performance

Accreditations, Certifications & Standards	500	1,000	2,000	3,000	5,000
EN795:2012	✓	✓	✓	✓	✓
PD CEN / TS16415:2013	✓	✓	✓	✓	✓
ANSI Z359.18-17	✓	✓	✓	✓	✓
AS/NZS 5532:2013	✓	✓	✓	✓	✓
ATEX Certified [Zone 2]	✓	✓	✓	✓	✓
ATEX Certified [Zone 1]	Optional	Optional	Optional	Optional	×
IRATA	✓	✓	✓	✓	✓
Capacity					
Maximum Goods Lifting [kg]	500	1,000	2,000	3,000	5,000
Maximum Personnel Lifting [kg]	250	500	1,000	1,500	2,500
Fall Arrest [Persons]	3	3	5	5	5
Dimensions					
Minimum Height of Lift [mm]	1,605	1,605	1,605	1,660	2,181
Maximum Height of Lift [mm]	5,829	5,829	5,829	5,527	5,000
Minimum Available Span [mm]	2,500	2,500	2,500	2,500	2,500
Maximum Available Span [mm]	9,000	9,000	8,400	8,400	5,500
Trolley Options					
Standard	✓	✓	✓	✓	✓
Gated	✓	✓	✓	✓	×
Close Coupled	✓	✓	✓	✓	×
Gear Driven	✓	✓	✓	×	×
Integrated Hoist	✓	✓	✓	×	×
Standard Features					
Ratchet Height Adjustment	✓	✓	✓	✓	✓
Mechanical aid Assembly	×	×	×	×	✓
Optional Extras					
Lobed Cheek Plates	✓	✓	✓	✓	✓
Winch Upgrade	✓	✓	✓	✓	✓
Wind Up Jack legs	✓	✓	✓	✓	✓
Trolley Rope Control System	✓	✓	✓	✓	✓
Festoon System	✓	✓	✓	✓	✓
Jointed Beam	✓	✓	×	×	×
Finishes					
Anodised	✓	✓	✓	✓	✓
316SS Fixings	Optional	Optional	Optional	Optional	Optional
Marine Spec	Optional	Optional	Optional	Optional	×

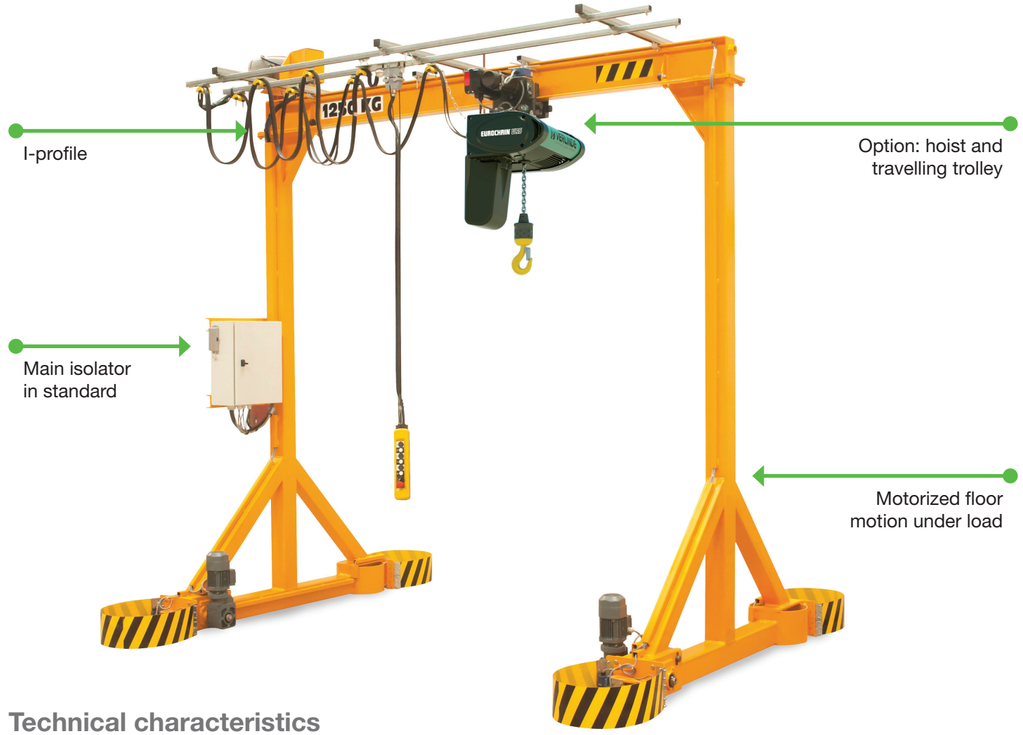
PORTAGANTRY 500-5000 - Dimensions [mm]

WLL [kg]	Frame size [Product Code]	DMax Height to lifting eye	E Height increment	DMin Height to lifting eye	F Height to top of beam	HMax Height to top of roller	HMin Height to top of roller	G Width	A-Frame weight [kg] (approx)	Trolley roller size	Castor Diam
500	PGAS00500S	2,355	5 x 150	1,605	2,675	2,757	2,007	1,212	32	82	150
	PGAS00500M	2,851	5 x 150	2,101	3,171	3,253	2,503	1,429	42	82	150
	PGAS00500I	3,188	5 x 200	2,188	3,499	3,581	2,581	1,726	50	82	200
	PGAS00500T	4,079	6 x 200	2,879	4,399	4,481	3,281	2,011	56	82	200
	PGAS00500TC4	4,527	6 x 200	3,327	4,847	4,930	3,730	2,234	86	82	200
	PGAS00500TC3	5,027	6 x 200	3,827	5,347	5,430	4,230	2,557	91	82	200
	PGAS00500TC2	5,527	8 x 200	3,927	5,848	5,930	4,330	2,733	97	82	200
	PGAS00500TC1	5,829	9 x 200	4,029	6,149	6,231	4,431	2,733	102	82	200
1,000	PGAS01000S	2,355	5 x 150	1,605	2,675	2,757	2,007	1,212	32	82	150
	PGAS01000M	2,851	5 x 150	2,101	3,171	3,253	2,503	1,429	42	82	150
	PGAS01000I	3,188	5 x 200	2,188	3,499	3,581	2,581	1,726	50	82	200
	PGAS01000T	4,079	6 x 200	2,879	4,399	4,481	3,281	2,011	56	82	200
	PGAS01000TC4	4,527	6 x 200	3,327	4,847	4,930	3,730	2,234	86	82	200
	PGAS01000TC3	5,027	6 x 200	3,827	5,347	5,430	4,230	2,557	91	82	200
	PGAS01000TC2	5,527	8 x 200	3,927	5,848	5,930	4,330	2,733	97	82	200
	PGAS01000TC1	5,829	9 x 200	4,029	6,149	6,231	4,431	2,733	102	82	200
2,000	PGAS02000S	2,355	5 x 150	1,605	2,675	2,757	2,007	1,212	35	82	150
	PGAS02000M	2,851	5 x 150	2,101	3,171	3,253	2,503	1,429	42	82	150
	PGAS02000I	3,188	5 x 200	2,188	3,499	3,581	2,581	1,726	50	82	200
	PGAS02000T	4,079	6 x 200	2,879	4,399	4,481	3,281	2,011	56	82	200
	PGAS02000TC4	4,527	6 x 200	3,327	4,847	4,930	3,730	2,234	86	82	200
	PGAS02000TC3	5,027	6 x 200	3,827	5,347	5,430	4,230	2,557	91	82	200
	PGAS02000TC2	5,527	8 x 200	3,927	5,848	5,930	4,330	2,733	97	82	200
	PGAS02000TC1	5,829	9 x 200	4,029	6,149	6,231	4,431	2,733	102	82	200
3,000	PGAS03000S	2,410	5 x 150	1,660	2,730	2,812	2,062	1,212	56	82	200
	PGAS03000M	2,906	5 x 150	2,156	3,226	3,308	2,558	1,429	61	82	200
	PGAS03000I	3,188	5 x 200	2,188	3,499	3,581	2,581	1,726	73	82	200
	PGAS03000T	4,079	6 x 200	2,879	4,399	4,481	3,281	2,011	85	82	200
	PGAS03000TC4	4,527	6 x 200	3,327	4,847	4,930	3,730	2,234	86	82	200
	PGAS03000TC3	5,027	6 x 200	3,827	5,347	5,430	4,230	2,557	91	82	200
	PGAS03000TC2	5,527	8 x 200	3,927	5,848	5,930	4,330	2,733	97	82	200
5,000	PGAS05000IR	3,181	5 x 200	2,181	3,592	3,717	2,717	1,736	99*	125	200
	PGAS05000TR	4,049	6 x 200	2,849	4,487	4,612	3,412	2,021	109*	125	200
	PGAS05000TC4R	4,500	6 x 200	3,300	4,938	5,062	3,862	2,234	96	125	200
	PGAS05000TC3R	5,000	6 x 200	3,800	5,438	5,562	4,362	2,557	101	125	200
	S & M versions also available as custom systems | WLL 5,000kg dimensions systems are shown using the deeper 'D' section beam										

Dimensions use standard Master Link Trolley, other options available to increase resulting height of lift (HoL) and to assist with load movement. *Weight includes stabiliser legs

VERLINDE LIFTING EQUIPMENT VGIM

Motorized workshop gantry for loads from 1,000kg to 6,000kg.



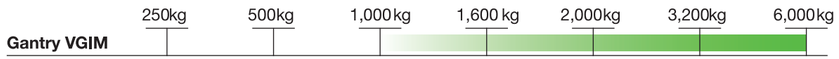
Technical characteristics

- Motorized VERLINDE gantry crane for indoor and outdoor use.
- Use on a smooth and clean floor.
- Welded construction.
- 2 motorized non swivel polyurethane wheels.
- 2 castor polyurethane wheels.
- Electrical equipment with mobile pendant (low voltage 48V).
- 2 travelling speeds 10m/min and 20m/min with inverter.
- Swiveling of the gantry by inversion of the motors.
- 2 swiveling speeds.
- Reversing switch on the pendant.
- 4 safety full stops.
- Protection: 3 layers.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.
- Maximum traveling speed = 10m/min.

Options

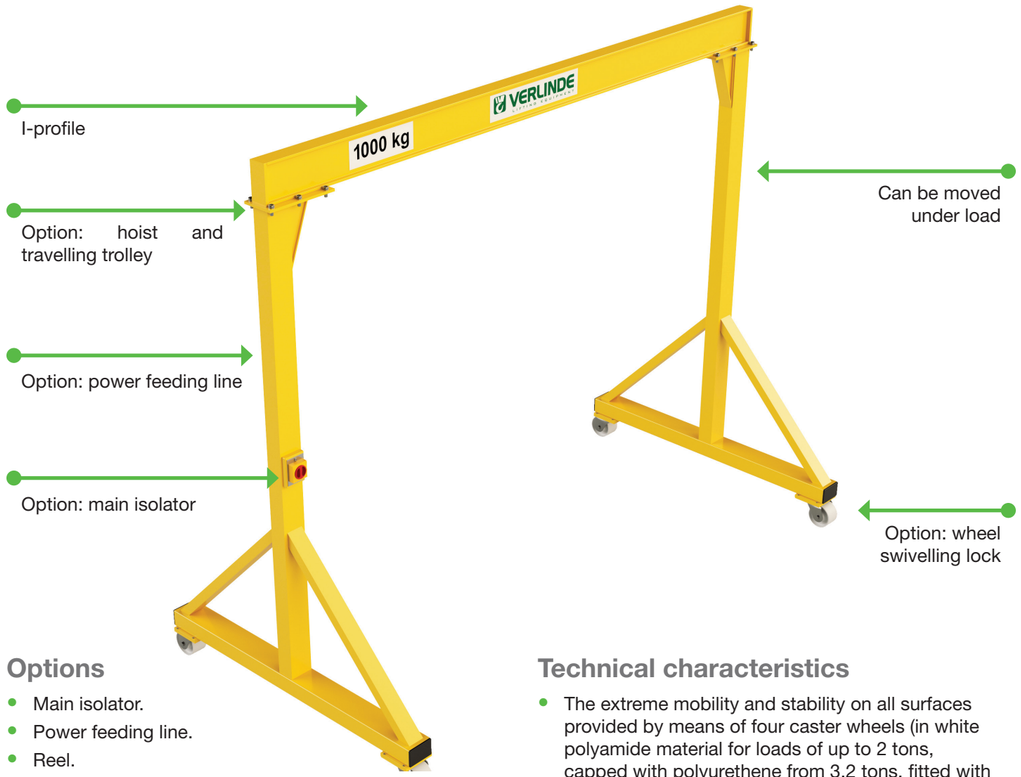
- Remote control
- Reel 18m P < 2 kW.
- Reel 18m P < 7 kW.
- Batteries for independent gantry.

Load capacity



VERLINDE VGI

Workshop gantry for loads from 500kg to 5,000kg.



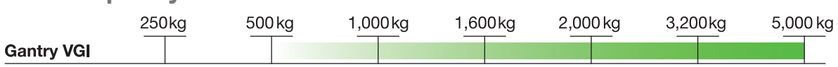
Options

- Main isolator.
- Power feeding line.
- Reel.
- Polyurethan wheel (per wheel).
- Rigging ring.
- Wheel block (per wheel).
- Polyurethan 4 layer painting RAL 1028 on epoxy primer.
- Polyurethan 4 layer painting special RAL on epoxy primer.
- Indoor paint other color than RAL 1028.
- Hot dip galvanizing.
- Covering for hoist.
- Cover for main islolator.

Technical characteristics

- The extreme mobility and stability on all surfaces provided by means of four caster wheels (in white polyamide material for loads of up to 2 tons, capped with polyurethene from 3.2 tons, fitted with ball bearing on the shafts and king pins. These wheels formed from acetyl resin have excellent shock behaviour and ability to withstand attack by chemicals.
- The raceway is a weld-fabricated IPE profile designed to accommodate a lifting and traversing movement device, with two traversing breast-pieces. The unit is finished in RAL 1028 polyurethene lacquer. Fully dismantlable, the VERLINDE independent gantries adapt to your need to make best use ofworkshop space.
- The gantry is delivered disassembled, together with its galvanised boltwork and takes only little time to assemble and commission.

Load capacity



VERLINDE Options available on the gantries

The VERLINDE range of standard gantries comes in three level of options for lifting and travelling of your loads:

Level 1 Hand powered lifting and travelling motion

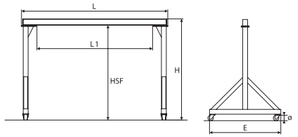
Level 2 Electric powered lifting and powered travelling motion

Level 3 Electric powered lifting and travelling motion

CHD Push trolley.
Capacity from 250 to 10,000kg.

VHR Hand chain block.
Capacity from 250 to 5,000kg.

EUROCHAIN VR
Electric chain hoist.
Capacity from 63 to 10,000kg.



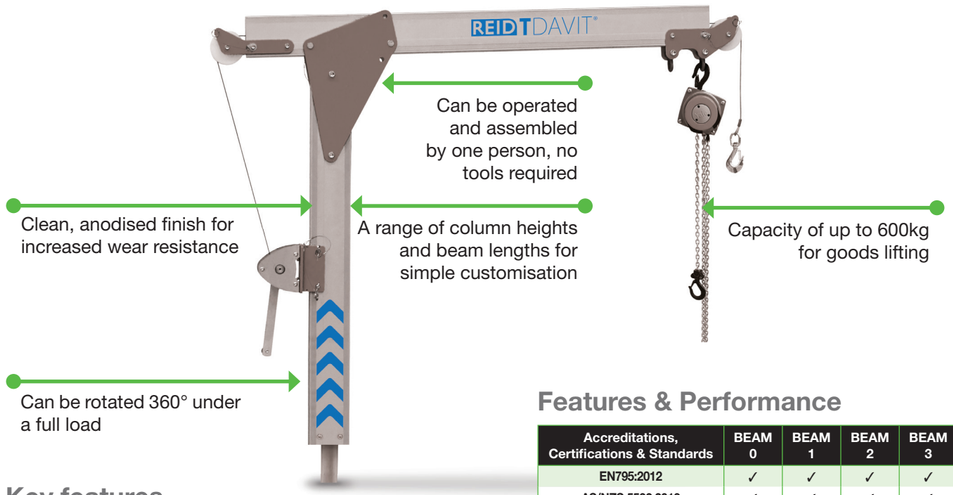
Technical characteristics and dimensions

Load (kg)	Span (mm)	HSF* (mm)	HSF min.(mm)	H (mm)	H min.(mm)	L (mm)	L1 (mm)	E (mm)	Ø (mm)	Weight (kg)
Standard profile (VGIM)										
1,000	3,000	3,000	–	3,250	–	3,220	2,420	2,720	200 - 160	–
1,600	3,000	3,000	–	3,270	–	3,220	2,420	2,720	200 - 160	–
2,000	3,000	3,000	–	3,330	–	3,250	2,250	2,720	200 - 154	–
3,000	3,000	3,000	–	3,430	–	3,300	2,300	2,790	250 - 200	–
5,000	3,000	3,000	–	3,430	–	3,350	4,450	2,875	300 - 250	–
6,000	3,000	3,000	–	3,430	–	3,350	1,950	2,875	300 - 250	–
Standard profile (VGI)										
500	2,500	3,000	–	3,180	–	2,690	2,090	1,500	150	210
	5,000	3,000	–	–	–	5,190	4,590	–	–	260
1,000	2,500	3,000	–	3,200	–	2,700	1,900	1,500	200	255
	5,000	3,000	–	–	–	5,200	4,400	–	–	335
1,600	2,500	3,000	–	3,200	–	2,720	1,720	2,000	200	365
	5,000	3,000	–	–	–	5,220	4,220	–	–	470
2,000	2,500	3,000	–	3,220	–	2,750	1,750	2,000	200	450
	5,000	3,000	–	–	–	5,250	4,250	–	–	575
3,200	2,500	3,000	–	3,300	–	2,780	1,780	2,000	250	590
	5,000	3,000	–	–	–	5,280	4,280	–	–	700
5,000	2,500	3,000	–	3,360	–	2,800	1,800	2,000	300	705
	5,000	3,000	–	–	–	5,300	4,300	–	–	860
Hollow profile EUROSYSTEM ST (VGPS)										
500	2,000	2,000	–	2,220	–	2,100	1,390	1,200	150	180
	5,000	2,000	–	2,220	–	5,100	4,390	1,200	150	237
1,000	2,000	2,000	–	2,220	–	2,100	1,390	1,200	150	199
	5,000	2,000	–	2,285	–	5,100	4,390	1,200	150	306
1,600	2,000	2,000	–	2,220	–	2,100	1,140	1,200	200	220
	5,000	2,000	–	2,220	–	5,100	4,140	1,200	200	327
2,000	2,000	2,000	–	2,285	–	2,100	1,140	1,200	200	271
	4,000	2,000	–	2,285	–	4,100	3,140	1,200	200	329
Hollow aluminium profile EUROSYSTEM ALU (VGPA)**										
250	2,000	3,200	2,150	3,335	2,235	–	900	1,520	150	98
	6,000	3,200	2,150	3,335	2,285	–	4,900	1,520	150	110
500	2,000	3,200	2,150	3,335	2,285	–	900	1,520	150	93
	6,000	3,200	2,150	3,415	2,365	–	4,900	1,520	150	144
1,000	2,000	3,200	2,150	3,415	2,365	–	900	1,520	150	106
	5,000	3,200	2,150	3,450	2,400	–	4,900	1,520	150	172
1,600	2,000	3,200	2,150	3,415	2,365	–	900	1,520	200	151
	5,000	3,200	2,150	3,450	2,400	–	3,900	1,520	200	203
2,000	2,000	3,200	2,150	3,415	2,365	–	900	1,520	200	146
	4,000	3,200	2,150	3,450	2,400	–	2,900	1,520	200	183

*Other heights are available for hook clearances of 2 to 4.5 metres. **Dimensions given for model H1.

REID TDAVIT®

Our TDAVIT is lightweight, portable, and as well as a wide range of standard sizes can be custom-designed and manufactured to specifically meet our customers' individual needs. Truly pioneering, it offers a lifting capacity of up to 600kg and 360° rotation under a full load.



Key features

- EN795:2012 Certified
- ATEX Certified
- Can support goods and personnel lifting;
  - Goods WLL of up to 600kg
  - Personnel WLL of up to 300kg
- Can be operated and assembled by one person, no tools required
- Can be rotated 360° under a full load
- Designed with a universal kingpin which is compatible for all REID sockets
- Clean, anodised finish for increased corrosion resistance
- A variety of attachments for a range of applications
- Engineered designs and bespoke sections reduce weight, providing lightweight portability

Configurations

The TDAVIT is available in a range of configurations and can be customised in line with specific requirements (subject to WLL rating).

**Refer to REID for further guidance

600kg WII | 1 Person Assembly | Customised & Bagged | En795 Certified | Atex Certified

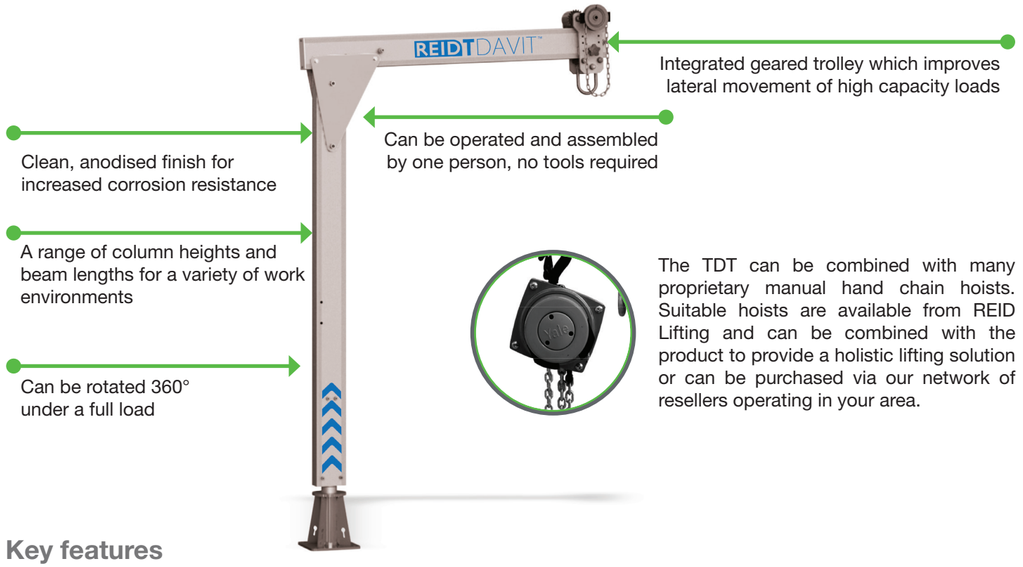
Features & Performance

Accreditations, Certifications & Standards	BEAM 0	BEAM 1	BEAM 2	BEAM 3	BEAM 4
EN795:2012	✓	✓	✓	✓	×
AS/NZS 5532:2013	✓	✓	✓	✓	×
ATEX Certified [Zone 2]	✓	✓	✓	✓	✓
ATEX Certified [Zone 1]	Optional	Optional	Optional	Optional	Optional
IRATA	✓	✓	✓	✓	×
Capacity					
Maximum Goods Lifting [kg]	600	500	500	375	300
Maximum Personnel Lifting [kg]	300	250	250	150	×
Fall Arrest [Persons]	1	1	1	1	×
Dimensions					
Maximum Reach [mm]	800	1,000	1,200	1,600	2,000
Maximum Height of Lift [mm]	2,165	2,240	2,315	2,460	2,615
Socket Diameter					
65mm	✓	✓	✓	✓	✓
Socket Options					
Top Mount	✓	✓	✓	✓	✓
Flush Mount	✓	✓	✓	✓	✓
Side Mount	✓	✓	✓	✓	✓
Bridge Mount	✓	✓	✓	✓	✓
Pedestal	✓	✓	✓	✓	✓
Extension Post	✓	✓	✓	✓	✓
Standard Features					
Shackle Lifting points	✓	✓	✓	✓	✓
Component Weight < 25kg	✓	✓	✓	✓	✓
Optional Extras					
Winch Capable	✓	✓	✓	✓	✓
Rotational Handle	✓	✓	✓	✓	✓
Finishes					
Anodised	✓	✓	✓	✓	✓
316SS Fixings	Optional	Optional	Optional	Optional	Optional
Marine Spec	Optional	Optional	Optional	Optional	Optional

Dimensions in the table are approximate values. For more accurate details please refer to the Dimension Table. All line items marked with a '✓' come as standard. All line items marked with a '×' are not available. All line items marked with 'optional' are available as an option and may incur additional costs.

REID TDAVIT® TDT

Our TDAVIT – TDT is lightweight, portable and has been designed to meet customer needs where the lifting and moving of equipment in tight spaces is a challenge.



The TDT can be combined with many proprietary manual hand chain hoists. Suitable hoists are available from REID Lifting and can be combined with the product to provide a holistic lifting solution or can be purchased via our network of resellers operating in your area.

Key features

- A range of 3 column and 4 beam sizes to suit customer specific needs
- Variable beam traversing via integrated geared trolley and customers choice of hoist
- Trolley can be secured during lift
- Trolley can be traversed whilst under load (34¼" to 45¾" of movement)
- Rotation under load due to patented integral bearing system
- Universal kingpin fits all REID sockets
- Manufactured from marine grade alloy and anodized/ powder coated for increased corrosion resistance
- Quality engineering and production parts reduce weight and provide high strength to weight ratios
- Two piece design to reduce manual handling concerns during transportation and assembly
- ATEX Zone 2 (explosive atmospheres) certification as standard
- ATEX Zone 1 (explosive atmospheres) as optional upgrade
- Can be assembled and operated by one person. No tools required

Configurations

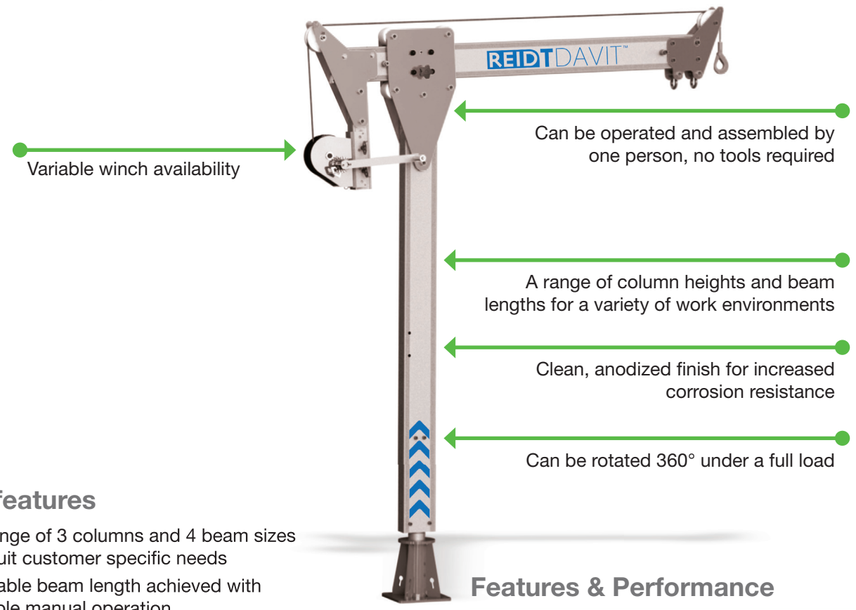
The TDT is available in several standard configurations to meet with customers most common requirements. Custom solutions can be offered by request, subject to he working load limit requirements.

Features & Performance

Accreditations, Certifications & Standards	BEAM 0	BEAM 1	BEAM 2	BEAM 4
Directive 2006/42/EC	✓	✓	✓	✓
ATEX Certified [Zone 1]	Optional	Optional	Optional	Optional
Capacity				
Maximum Goods Lifting [kg]	400	200	150	150
Dimensions				
Maximum Reach [mm]	1,200	1,500	1,700	2,000
Maximum Height of Lift [mm]	1,945	1,960	1,971	1,986
Socket Diameter				
65mm	✓	✓	✓	✓
Socket Options				
Top Mount	✓	✓	✓	✓
Flush Mount	✓	✓	✓	✓
Side Mount	✓	✓	✓	✓
Bridge Mount	✓	✓	✓	✓
Pedestal	✓	✓	✓	✓
Extension Post	✓	✓	✓	✓
Standard Features				
Component Weight < 25kg	✓	✓	✓	✓
Geared Trolley	✓	✓	✓	✓
Optional Extras				
Winch Capable	✓	✓	✓	✓
Rotational Handle	✓	✓	✓	✓
Finishes				
Anodised	✓	✓	✓	✓
316SS Fixings	Optional	Optional	Optional	Optional
Marine Spec	Optional	Optional	Optional	Optional

REID TDAVIT® TDVW

Our TDAVIT – TDVW is lightweight, portable and has been designed to meet customer needs where the lifting and moving of equipment in tight spaces is a challenge.



Key features

- A range of 3 columns and 4 beam sizes to suit customer specific needs
- Variable beam length achieved with simple manual operation
- Beam can be secured during lift
- Easy beam adjustment whilst under load (726mm to 1526mm of movement)
- Rotation under load due to patented integral bearing system
- Universal kingpin fits all REID sockets
- Manufactured from marine grade alloy and anodised/ powder coated for increased corrosion resistance
- Quality engineering and production parts reduce weight and provide high strength to weight ratios
- Two piece design to reduce manual handling concerns during transportation and assembly
- ATEX Zone 2 (explosive atmospheres) certification as standard
- ATEX Zone 1 (explosive atmospheres) as optional upgrade
- Can be assembled and operated by one person. No tools required

Configurations

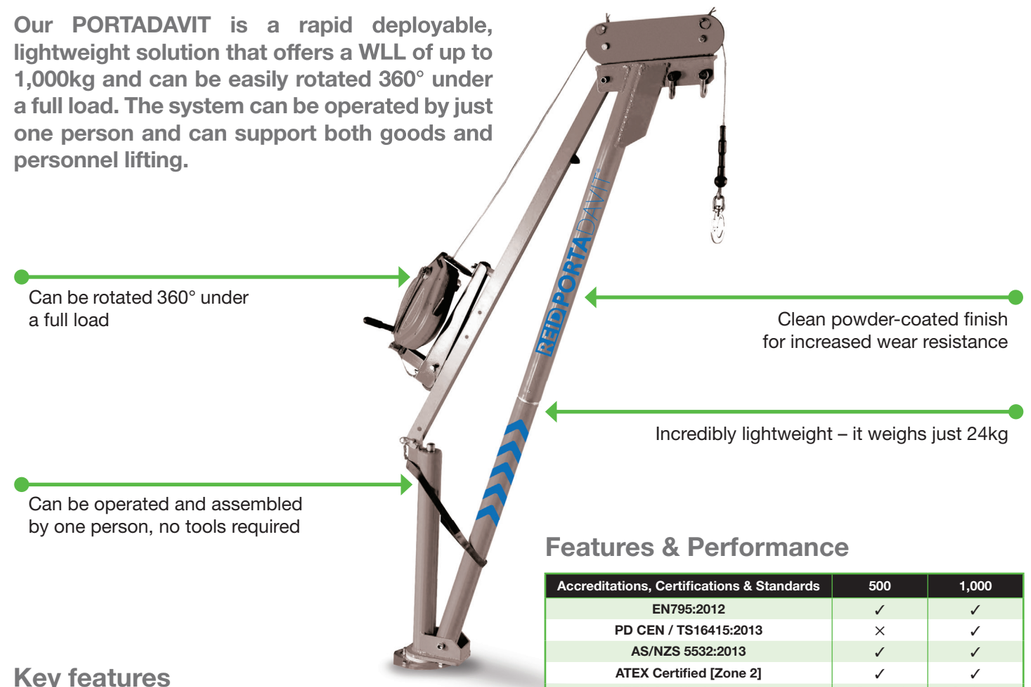
The TDVW is available in several standard configurations to meet with customers most common requirements. Custom solutions can be offered by request, subject to the working load limit requirements.

Features & Performance

Accreditations, Certifications & Standards	1,200	1,500	1,700	2,000
Directive 2006/42/EC	✓	✓	✓	✓
ATEX Certified [Zone 1]	Optional	Optional	Optional	Optional
Capacity				
Maximum Goods Lifting [kg]	300	150	200	200
Dimensions				
Maximum Reach [mm]	1,200	1,500	1,700	2,000
Maximum Height of Lift [mm]	2,093	2,107	2,118	2,132
Socket Diameter				
65mm	✓	✓	✓	✓
Socket Options				
Top Mount	✓	✓	✓	✓
Flush Mount	✓	✓	✓	✓
Side Mount	✓	✓	✓	✓
Bridge Mount	✓	✓	✓	✓
Pedestal	✓	✓	✓	✓
Extension Post	✓	✓	✓	✓
Standard Features				
Shackle Lifting Points	✓	✓	✓	✓
Finishes				
Anodised	✓	✓	✓	✓
316SS Fixings	Optional	Optional	Optional	Optional
Marine Spec	Optional	Optional	Optional	Optional

REID PORTADAVIT®

Our PORTADAVIT is a rapid deployable, lightweight solution that offers a WLL of up to 1,000kg and can be easily rotated 360° under a full load. The system can be operated by just one person and can support both goods and personnel lifting.



Key features

- EN795:2012 Certified
- ATEX Certified
- Can support goods and personnel lifting;
- Goods WLL of up to 1,000kg
- Personnel WLL of up to 300kg
- Ease of assembly with the use of just one pin, no tools required
- Can be rotated 360° under a full load
- Engineered with easy radius adjustment
- Engineered designs and bespoke sections reduce weight, providing lightweight portability

Configurations

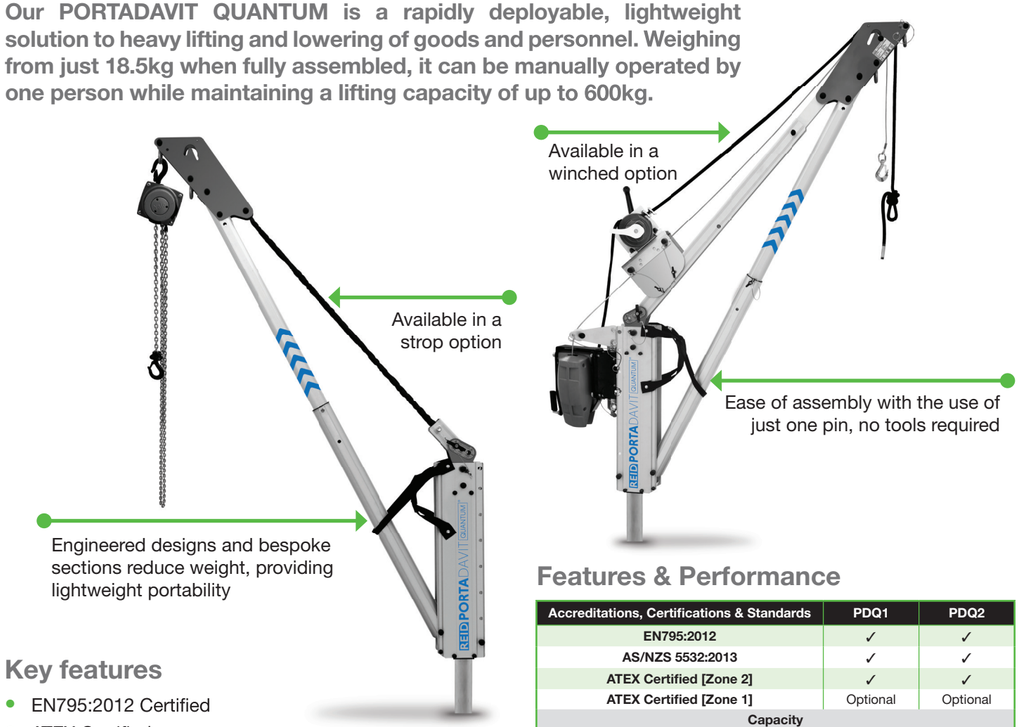
The PORTADAVIT is available in a range of standard configurations. It can also becustomised in line with specific requirements and interchangeable components (subject to WLL rating)

Features & Performance

Accreditations, Certifications & Standards	500	1,000
EN795:2012	✓	✓
PD CEN / TS16415:2013	×	✓
AS/NZS 5532:2013	✓	✓
ATEX Certified [Zone 2]	✓	✓
ATEX Certified [Zone 1]	Optional	Optional
IRATA	×	×
Capacity		
Maximum Goods Lifting [kg]	500	1,000
Maximum Personnel Lifting [kg]	250	300
Fall Arrest [Persons]	1	2
Dimensions		
Maximum Reach [mm]	1,200	1,200
Maximum Height of Lift [mm]	2,107	2,100
Socket Diameter		
65mm	✓	×
95mm	×	✓
Socket Options		
Top Mount	✓	✓
Flush Mount	✓	✓
Side Mount	✓	✓
Bridge Mount	✓	×
Pedestal	✓	×
Extension Post	✓	×
Standard Features		
Shackle Lifting points	✓	✓
Weight < 25kg	✓	×
Optional Extras		
Winch Capable	Optional	×
Finishes		
Anodised	×	✓
Powder Coated	✓	×
316SS Fixings	Optional	Optional
Marine Spec	Optional	Optiolna

REID PORTADAVIT® QUANTUM

Our PORTADAVIT QUANTUM is a rapidly deployable, lightweight solution to heavy lifting and lowering of goods and personnel. Weighing from just 18.5kg when fully assembled, it can be manually operated by one person while maintaining a lifting capacity of up to 600kg.



Key features

- EN795:2012 Certified
- ATEX Certified
- Can support goods and personnel lifting;
- Goods WLL of up to 600kg
- Personnel WLL of up to 300kg
- Ease of assembly with the use of just one pin, no tools required
- Can be rotated 360° under a full load
- Designed with a universal kingpin which is compatible for all REID sockets
- Easy radius adjustment
- Engineered designs and bespoke sections reduce weight, providing lightweight portability

Configurations

The PORTADAVIT QUANTUM is available in a strop and winched version for use with a range of lifting equipment.

600kg Wll | 1 Person Assembly | From 18.5kg | En795 Certified | Atex Certified

Features & Performance

Accreditations, Certifications & Standards	PDQ1	PDQ2
EN795:2012	✓	✓
AS/NZS 5532:2013	✓	✓
ATEX Certified [Zone 2]	✓	✓
ATEX Certified [Zone 1]	Optional	Optional
Capacity		
Maximum Goods Lifting [kg]	600	500
Maximum Personnel Lifting [kg]	300	250
Fall Arrest [Persons]	1	1
Dimensions		
Maximum Reach [mm]	1,200	1,500
Maximum Height of Lift [mm]	2,111	1,957
Socket Diameter		
65mm	✓	✓
Socket Options		
Top Mount	✓	✓
Flush Mount	✓	✓
Side Mount	✓	✓
Bridge Mount	✓	✓
Pedestal	✓	✓
Extension Post	✓	✓
Standard Features		
One Piece Unit	✓	✓
Multiple Accessory Attachment	✓	✓
Shackle Lifting points	✓	✓
Weight < 25kg	✓	✓
Optional Extras		
Winch Capable	✓	✓
Rotational Handle	✓	✓
Finishes		
Anodised	✓	✓
316SS Fixings	Optional	Optional
Marine Spec	Optional	Optional

REID Bases & Sockets

We offer a wide range of portable bases, sockets and extensions which offer full versatility and compatibility with our Davit range, all of which are designed to make light work of lifting and lowering.

Pedestals

Our pedestal sockets are similar to top mount sockets and are manufactured from lightweight aluminium. Our pedestals are designed to provide additional lift height or reach over obstacles, protective rails or walls.

We offer pedestals which are suitable for use with our 65mm kingpin davit range.

Our pedestals are available in three standard sizes:

- 500mm
- 800mm
- 1,100mm

They can also be customised to meet our customers' specific requirements.

Socket Extensions

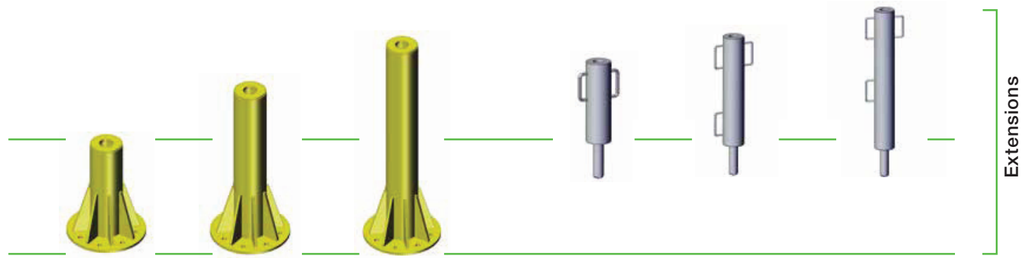
Our socket extensions are designed to provide additional lift height or reach over obstacles, protective rails or walls for 65mm socket/kingpin davits. Made from lightweight aluminium alloy, with handles for lifting and carrying, they're designed to be easy to use. Simply insert them into the existing socket and assemble a standard davit, as normal, using the extension as its socket.

Our socket extensions are available in three standard sizes:

- 500mm
- 800mm
- 1,100mm

They can also be customised to meet our customers' specific requirements.

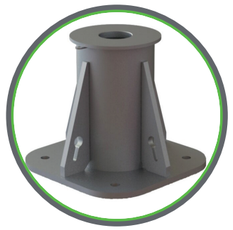
*When fixing sockets to structures, customers must always seek the guidance of a suitably qualified engineer to ensure that the structure is able to support the required loads.
** Socket extensions are only suitable to be used with our socket range and cannot be used with a pedestal.



Pedestal Height of Lift: +500mm | **Pedestal** Height of Lift: +800mm | **Pedestal** Height of Lift: +1,100mm | **SE500** Height of Lift: +500mm | **SE800** Height of Lift: +800mm | **SE1100** Height of Lift: +1,100mm

Disclaimer: All REID sockets & extensions have been designed, developed and tested for safe use with REID's equipment and form a key part of the integrity of the total system. Should non-standard third party sockets be used, REID Lifting's Declaration of Conformity & Incorporation on the products is negated. i.e. The system becomes the responsibility of the client.

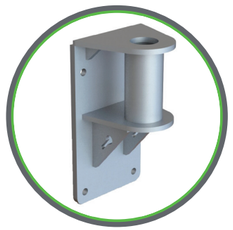
Top Mount Socket



- Suitable for use with our full davit range
- EN795:2012 certified and meets requirements of IRATA ICOP
- Galvanised Steel Top Mount[STMG0500V2] meets requirements of BS8610:2017
- Secured using 4nr. M16 anchors [not supplied]
- Suitable for bolting into existing concrete, steel structures or through fixing in other substrates
- Comes complete with cover

Product Code	Description	Material	Weight [kg]	Diameter [mm]
STMG0500V2	Socket Top Mount 65 GMS	Galvanised Steel	13	65
STMS0500V2	Socket Top Mount 65 316SS	Stainless Steel	17	65
STMA0500	Socket Top Mount 65	Aluminium Anodised Aluminium	9	65
STMG1000	Socket Top Mount 95 GMS	Galvanised Steel	29	95
STMS1000	Socket Top Mount 95 316SS	Stainless Steel	30	95

Side Mount Socket



- Suitable for use with our full davit range
- EN795:2012 certified and meets requirements of IRATA ICOP
- Galvanised Steel Side Mount[SSMG0500V2] meets requirements of BS8610:2017
- Secured using 4nr. M16 anchors [not supplied]
- Suitable for mounting on the side of concrete or steel structures
- A brace plate can be supplied for thin-walled concrete

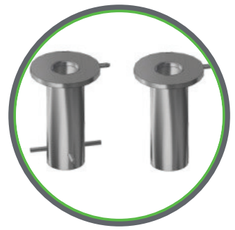
Product Code	Description	Material	Weight [kg]	Diameter [mm]
SSMG0500V2	Socket Side Mount 65 GMS	Galvanised Steel	13	65
SSMS0500V2	Socket Side Mount 65 316SS	Stainless Steel	17	65
SSMA0500	Socket Side Mount 65	Aluminium Anodised Aluminium	6	65
SSMG1000	Socket Side Mount 95 GMS	Galvanised Steel	30	95
SSMS1000	Socket Side Mount 95 316SS	Stainless Steel	29	95

Bridge Mount Socket

- Suitable for use with 65mm REID davits
- EN795:2012 certified and meets requirements of IRATA ICOP
- Secured using 4nr. M16 anchors [not supplied]
- Suitable for bolting into steel structures
- Designed to fit open mesh grating or flush with structural steel work

Product Code	Description	Material	Weight [kg]	Diameter [mm]
SBMG0500	Socket Bridge Mount 65 GMS	Galvanised Steel	19	65
SBMS0500	Socket Bridge Mount 65 316SS	Stainless Steel	19	65
SBMA0500	Socket Bridge Mount 65	Aluminium Anodised Aluminium	7	65

Flush Mount Socket



- Suitable for use with our full davit range
- EN795:2012 certified and meets requirements of IRATA ICOP
- Suitable for resin fixing into existing concrete
- Complete with cover and re-bars, for casting into concrete

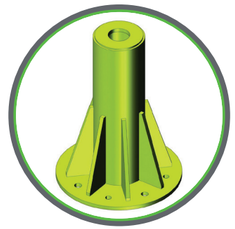
Product Code	Description	Material	Weight [kg]	Diameter [mm]
SFMG0500	Socket Flush Mount 65 GMS	Galvanised Steel	5	65
SFMS0500	Socket Flush Mount 65 316SS	Stainless Steel	4	65
SFRG0500	Socket Flush Mount Resin Bond 65 GMS	Galvanised Steel	5	65
SFRS0500	Socket Flush Mount Resin Bond 65 316SS	Stainless Steel	4	65
SFMG1000	Socket Flush Mount 95 GMS	Galvanised Steel	9.5	95
SFMS1000	Socket Flush Mount 95 316SS	Stainless Steel	9.5	95
SFRG1000	Socket Flush Mount 95 Resin Bond GMS	Galvanised Steel	9.5	95
SFRS1000	Socket Flush Mount 95 Resin Bond 316SS	Stainless Steel	9.5	95

Socket Extensions

- Can be used with 65mm REID davits combined with 65mm fixed sockets
- EN795:2012 certified up to 1,600mm radius
- Integrated carry handles
- Safe use features
- Maintenance free
- Manual handling compliant

Product Code	Description	Material	Weight [kg]	Diameter [mm]
SE0500-0500	Socket Extension 500	Aluminium	12	500
SE0500-0800	Socket Extension 800	Aluminium	15	800
SE0500-1100	Socket Extension 1100	Aluminium	17	1,100

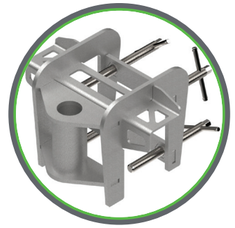
Socket Pedestals



- Suitable for use with 65mm REID davits
- EN795:2012 Certified up to 1,600mm radius
- Secured using 4nr. M16 or M20 anchors [not supplied]
- Meets requirements of IRATA ICOP up to 1200mm radius
- Safe use features
- Maintenance free
- Manual handling compliant

Product Code	Description	Material	Weight [kg]	Diameter [mm]
SP0500-0500	Socket Pedestal 65 500mm	Aluminium	17	500
SP0500-0800	Socket Pedestal 65 800mm	Aluminium	19	800
SP0500-1100	Socket Pedestal 65 1100mm	Aluminium	19	1,100

PORTABASE Trench Mount Socket



- EN795:2012 Type B certified
- Suitable for use with Davits up to a radius of 1,200mm
- Fall arrest capacity – 1 user
- Personnel capacity up to 250kg*
- Goods capacity up to 500kg*
- Galvanised steel construction and powder coated finish
- Designed for use in trenching and shoring applications subject to structural validation

Product Code	Description	Material	Weight [kg]	Diameter [mm]
PBTM00001	Porta Base Trench Mount - Max 1200mm Radius	Galvanised Steel	25	65

* For detailed product drawings see our socket product overview.

Thern Winches & Cranes Davit Cranes

Choose a crane that's built to last lift after lift. We also offer a variety of finish, base and winch options to meet the needs of your specific application.

First Mate Series Model 5PF5-M1

User-friendly, light-weight, economical and extremely portable with quick-release clevis pins and lifting power of 850 pounds. An optional base extension adds 15 of hook height to enhance utility.

Max Capacity	Portable		Maximum Hook				Adjustable Boom	
	Yes	No	Reach	Height (above floor)	Lift Distance (below floor)	Long Lift* (below floor)	Length	Angle
385 kg	✓		1,066 mm	1,524 mm	23.1 m	71.9 m		✓

Winches				Finishes					
Manual			Power						
Spur	SS Spur	Worm	(AC, DC, Pneumatic, Hydraulic)	Power Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Grey)
✓	✓	✓	✓	✓		✓	✓	✓	✓

Ensign Series Model 5PA5-M1

An 8 5 hook height makes this portable, user-friendly solution perfect for lifting light loads over tall obstacles with minimum boom adjustment. Quick-release clevis pin design enhances transit to other locations or storage.

Max Capacity	Portable		Maximum Hook				Adjustable Boom	
	Yes	No	Reach	Height (above floor)	Lift Distance (below floor)	Long Lift* (below floor)	Length	Angle
226 kg	✓		914 mm	2,565 mm	18.2 m	71.6 m	✓	✓

Winches				Finishes					
Manual			Power						
Spur	SS Spur	Worm	(AC, DC, Pneumatic, Hydraulic)	Power Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Grey)
✓	✓	✓	✓	✓		✓	✓	✓	✓

Ensign Series Model 5PA10-M1

A portable, user-friendly solution for lifting medium loads over the tallest obstacles—its 10-foot hook height minimizes boom adjustment. Standard roller bearings and rotational lock enhance control and load placement.

Max Capacity	Portable		Maximum Hook				Adjustable Boom	
	Yes	No	Reach	Height (above floor)	Lift Distance (below floor)	Long Lift* (below floor)	Length	Angle
544 kg	✓		1,219 mm	3,048 mm	21.6 m	85.6 m	✓	✓

Winches				Finishes					
Manual			Power						
Spur	SS Spur	Worm	(AC, DC, Pneumatic, Hydraulic)	Power Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Grey)
✓	✓	✓	✓	✓		✓	✓	✓	✓

*Contact factory for long lift ratings requirements. Max capacity may vary depending on wire rope diameters.

Commander Series Model 5PT20-M1

A portable solution for heavy loads in multiple locations. A load-disconnect feature allows disassembly and transport to another base or storage. Extended reach and hook height (8) facilitate clearance over high obstacles.

Max Capacity	Portable		Maximum Hook				Adjustable Boom	
	Yes	No	Reach	Height (above floor)	Lift Distance (below floor)	Long Lift* (below floor)	Length	Angle
907 kg	✓		2,082 mm	2,463 mm	18.2 m	132.5 m	✓	✓

Winches				Finishes					
Manual			Power						
Spur	SS Spur	Worm	(AC, DC, Pneumatic, Hydraulic)	Power Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Grey)
✓	✓	✓	✓	✓		✓	✓	✓	✓

Captain Series Model 5FT20-M1

A stationary crane designed for the smooth rotation of heavy loads where extended reach and height are also required. Twelve-position integral mast locking mechanism facilitates loading and stabilizes unloading.

Max Capacity	Portable		Maximum Hook				Adjustable Boom	
	Yes	No	Reach	Height (above floor)	Lift Distance (below floor)	Long Lift* (below floor)	Length	Angle
907 kg		✓	2,540 mm	3,175 mm	16.1 m	84.7 m	✓	✓

Winches				Finishes					
Manual			Power						
Spur	SS Spur	Worm	(AC, DC, Pneumatic, Hydraulic)	Power Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Grey)
✓	✓	✓	✓		✓				✓

Captain Series Model 5FT40-E2

The ideal stationary solution for the heaviest loads requiring extensive reach and hook height. Integral slewing drive withstands large axial, radial and moment loads—ideal for marine vessels and ports.

Max Capacity	Portable		Maximum Hook				Adjustable Boom	
	Yes	No	Reach	Height (above floor)	Lift Distance (below floor)	Long Lift* (below floor)	Length	Angle
2,500 kg		✓	3,098 mm	3,886 mm	14.9 m	53.0 m	✓	✓

Winches				Finishes					
Manual			Power						
Spur	SS Spur	Worm	(AC, DC, Pneumatic, Hydraulic)	Power Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Grey)
✓		✓	✓		✓	✓			✓

Admiral Series Model 5PT30J-M1

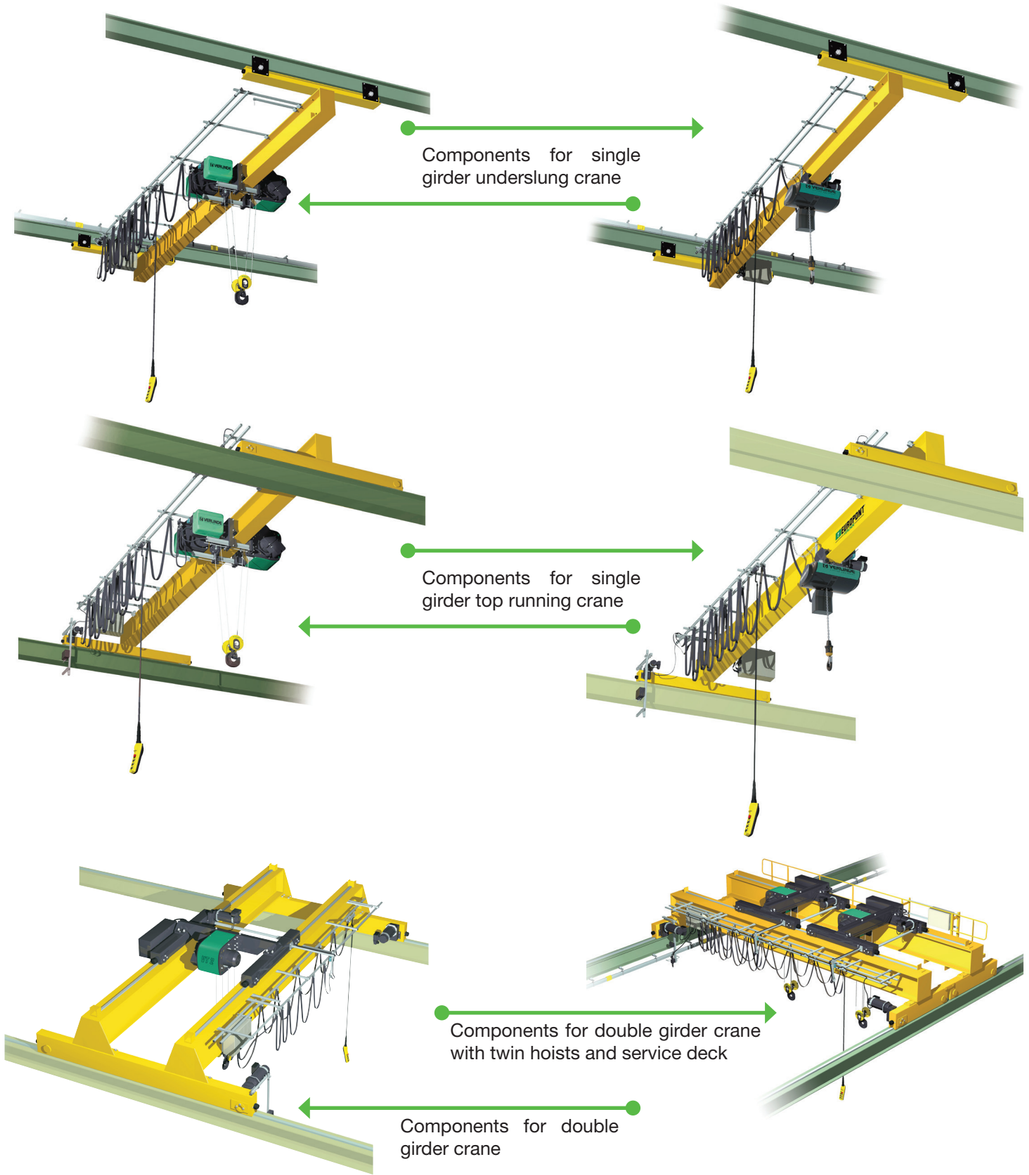
Extreme lifting power, extensive reach and maximum hook height move the heaviest loads with precision. A modular design allows disassembly for use in multiple locations.

Max Capacity	Portable		Maximum Hook				Adjustable Boom	
	Yes	No	Reach	Height (above floor)	Lift Distance (below floor)	Long Lift* (below floor)	Length	Angle
1,360 kg	✓		2,844 mm	3,886 mm	14.9 m	68.2 m	✓	Optional

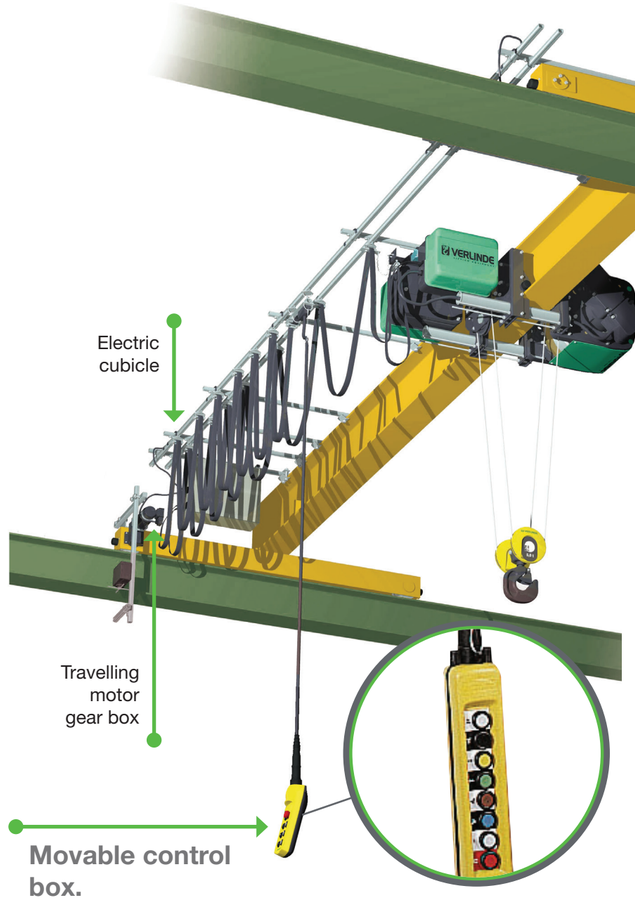
Winches				Finishes					
Manual			Power						
Spur	SS Spur	Worm	(AC, DC, Pneumatic, Hydraulic)	Power Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Grey)
✓		✓	✓		✓	✓			✓

VERLINDE Composant+®

Complete range of components for standard cranes for load from 125 to 250,000kg.



Components for single girder top running crane with power feeding line along the girder.



Movable control box.

- Moves along the crane and is independant from the hoist. The mobile pendant ensures a high level of safety for the operator.
- The pendant comes with the plug.

Electric wire rope hoist.

EUROBLOC VT electric wire rope hoist.

Monorail trolley available in short or normal headroom. Double girder trolley.

- 2 lifting speed as standard.
- Variable travelling speed as standard.
- Hook approach, “C” dimensions and the “F” approach distance of the hoist are the smallest available on the market.
- Overload device as standard.
- Limit switches for hoisting and travelling.

Travelling motor gear box.

Quietly and smoothly start of the motor:

- 2 travelling speed.
- Variable travelling speed.

Top running end-carriages.

- Direct drive wheels.
- Rubber buffer.
- The end-carriages are fastened with a plate bolted onto the girder.

Electric cubicle.

- The steel control panel is sealed (IP 55).
- Both the main switch, which is lockable and controlled from the outside, and the circuit ON/OFF switch.
- Comply with all international standard.

VERLINDE Composant+®

Components for single girder top running crane with cable chain power feeding line.

Travelling motor gear box.

Quietly and smoothly start of the motor:

- 2 travelling speed.
- Variable travelling speed.

Top running end-carriages.

- Direct drive wheels.
- Rubber buffer.
- The end-carriages are fastened with a plate bolted onto the girder.

Electric cubicle.

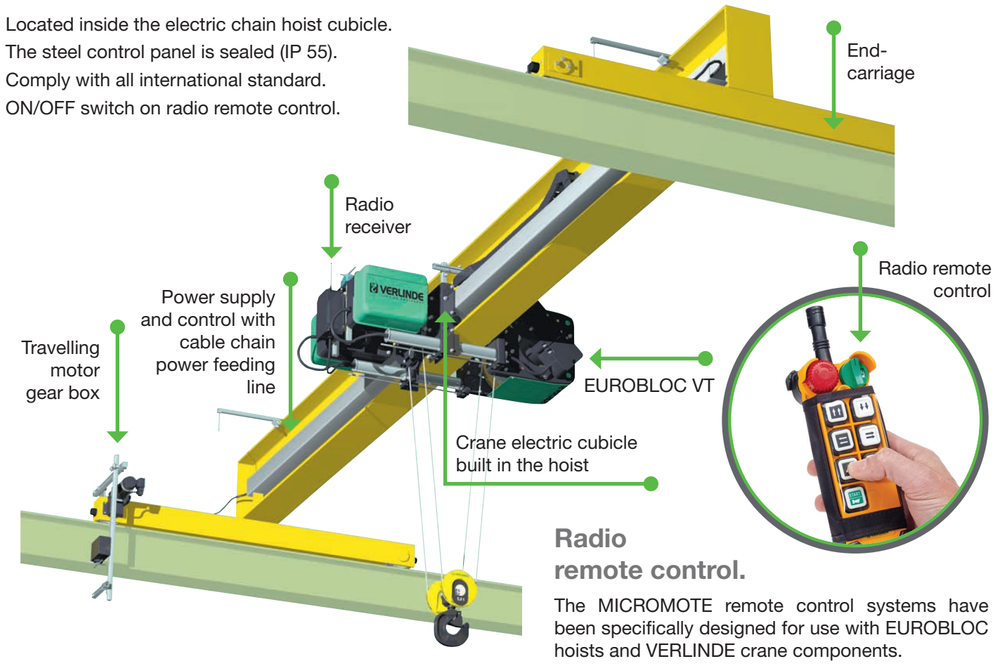
- Located inside the electric chain hoist cubicle.
- The steel control panel is sealed (IP 55).
- Comply with all international standard.
- ON/OFF switch on radio remote control.

Electric wire rope hoist.

EUROBLOC VT electric wire rope hoist.

Monorail trolley available in short or normal headroom. Double girder trolley.

- 2 lifting speed as standard.
- Variable travelling speed as standard.
- Hook approach, “C” dimensions and the “F” approach distance of the hoist are the smallest available on the market.
- Overload device as standard.
- Limit switches for hoisting and travelling.



Options

- MT 2 (Electronic control and recording status of the hoist and crane: SWP, time running, starts, overloads, temperature, load, brake, etc.).
- Display with load indication on hoist, hook, control box or crane.
- Twin hoists.

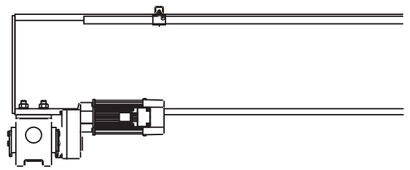
Radio remote control.

The MICROMOTE remote control systems have been specifically designed for use with EUROBLOC hoists and VERLINDE crane components.

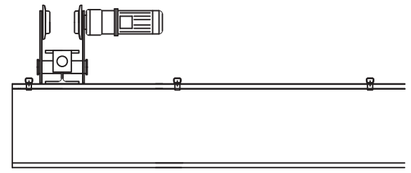
Designed for the most demanding industrial environments, MICROMOTE remote control systems are easy to use, flexible and reliable.

MICROMOTE means improved operator productivity and safety during hoisting operations and savings made through increased productivity and a reduction in idle time.

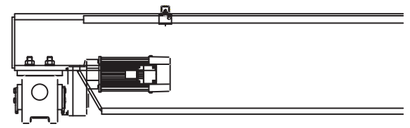
Delivery as standard with horn on push button box.



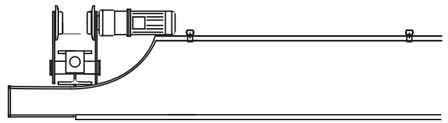
Top running single and double girder **“Top Connection”**



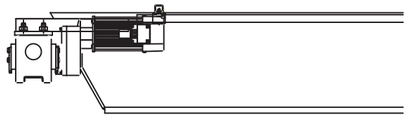
Underslung single girder **“Top Connection”**



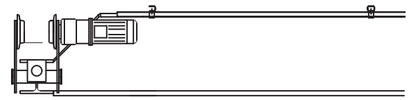
Top running single and double girder **“Medium Connection”**



Underslung single girder **“Medium Connection”**



Top running single and double girder **“Low Connection”**



Underslung single girder **“Low Connection”**

Standards and hoisting regulations

CE directive. Since 129 December 2009, the European Machinery Directive (2006/42/EC) applies to the sale and assembly of all new machines marketed from 2010. The new decree is complementary to the former Directive, made up of 600 standards issued in 1995. That directive obliges that machine constructors ensure that their machinery complies with certain reglementations, standards, national legislations and technical specifications.

F.E.M. European lifting equipment association.

S.W.P. Safe Working Period. A Safe Working Period is calculated for each electrical hoist unit according to the average operating time of the hoisting equipment, load capacity and class of application. After this period, a general service carried out by the constructor is necessary.

Class of operation. According to FEM classification, two fundamental criteria must be taken into account: the type of duty and the class of duty (according to average daily operation time average load).

ISO standard. Classes of operation can also be defined according to ISO grouping (1Am =M4, 2m =M5, 3m =M6, etc.).

Type of duty.

- **Light service.** Equipment rarely subject to maximum load and frequently to very little load.
- **Medium service.** Equipment rarely subject to maximum load and frequently to very little load.
- **Heavy service.** Equipment frequently subject to maximum load and frequently to medium load.
- **Very heavy service.** Equipment frequently subject to maximum or near maximum load.

Average daily operating time in hours				≤ 0,5		≤ 1		≤ 2		≤ 4		≤ 8		≤ 16	
Class of duty				V0,25	T2	V0,5	T3	V1	T4	V2	T5	V3	T6	V4	T7
Type of service	1	L1	Light					1Bm	M3	1Am	M4	2m	M5	V4	M6
	2	L2	Medium			1Bm	M3	1Am	M4	2m	M5	3m	M6		
	3	L3	Heavy	1Bm	M3	1Am	M4	2m	M5	3m	M6				
	4	L4	Very heavy	1Am	M4	2m	M5	3m	M6						
Group								1Bm	M3	1Am	M4	2m	M5	3m	M6
Duty factor**								25%		30%		40%		50%	
Number of start-ups per hour								150		180		240		300	

F.E.M. 9511 standard classification

ISO standard classification.

* Operating factor in % = $\frac{\text{Hoisting time + Lowering time}}{\text{Hoisting time + Idle time + Lowering time + Idle}}$ x 100

VERLINDE EUROSTYLE®

Range of jib cranes mounted on a wall or on a column, with total or partial rotation capability, manual or motorized.

Choosing the jib cranes that is most adequate for your needs

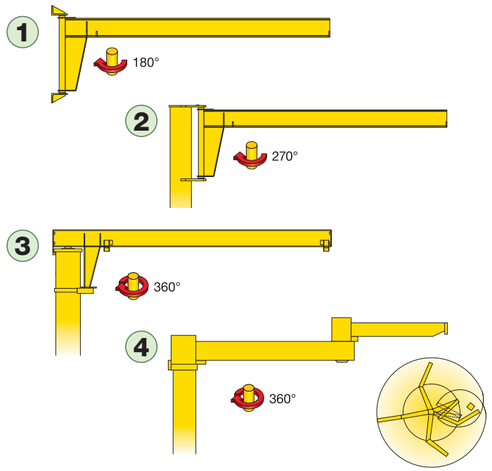
Jib cranes, whether they are mounted on a wall or on a column, are intelligent and inexpensive handling systems that do not require modification of the building structure in which they are being installed. They don't take up much space but they allow transporting goods on a three-dimensional plane.

Useful in any industrial sector: foundries, boiler works, mechanical works, paper factories, etc. They are the ideal complement for the traveling cranes used in every section of an industrial plant. They increase in autonomy and effectiveness of each workstation.

4 kinds of jib cranes is offered by Verlinde

1. The wall-mounted jib crane fitted onto a wall or a post, able to service a 180° section over a span up to 8 meters.
2. The jib crane mounted onto a column, with partial rotation capability and totally independent from the building, anchored to the ground. It can service a work area of up to 270° over a span up to 8 meters.
3. The rotating jib cranes mounted onto a column, is the most complete: it handles from 125 to 10,000kg. over an area with a span up to 12 meters.
4. Verlinde's "TEMPLIER" articulated jib crane easily handles loads from 50 to 1,000kg, over a 5 to 2 m span, almost full circle, and practically no dead space (the articulated arm allows working around obstacles).

For others requests, please consult us.



Adapted lifting devices

VHR
manual chain hoist.
Capacity from 250 to 5,000kg.

EUROCHAIN VR
electric chain hoist.
Capacity from 63 to 10,000kg.

EUROLIFT BH
electric belt hoist.
Capacity from 63 to 5,000kg.

EUROBLOC VT
electric wire rope hoist
Capacity from 800 to 80,000kg.

Electric rotation

Upon request, VERLINDE will provide electric rotation capabilities (VFM jib cranes) required depending on load capacity, span, rotation torque, operating rhythm, etc.

Special manufacturing & adaptation

Jib cranes for heights and span that are greater than the standard features.

- Manual rotation controlled by means of a wheel and endless chain.
- Jib cranes with 2 beams.
- Telescopics jib cranes.

VERLINDE Wall-mounted Jib Cranes

These are the most inexpensive jib cranes if you have a wall or a post that is strong enough, close to the workstation it will service. The height available under the iron beam is only limited by the height of the building itself.

The main feature is the arm: to ensure easy rotation, the arm is articulated in the two captive hinges in the two projecting support members that make up the anchor plate.

VAT

Loads of 125 to 2,000kg.
Span from 2 to 8 meters according load.

Description

- Wall jib crane for indoor use, 180° rotation, with overbraced beam.
- This type of jib crane cannot be motorized.
- Attached with M24, 10.9 grade bolts (not provided).
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

Options

- Hoist power supply cable.
- Lockable main switch.
- Standpipe.
- Rotation slowing device (adaptable without welding or mechanical intervention).
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly.
- Single- or multi-position rotation lock.
- Outdoor use.
- Electric or manual hoist.

VATS

Loads of 63 to 2,000kg.
Span from 2 to 8 meters according load.

Description

- Hollow-section wall jib crane for indoor use, 180° rotation, with overbraced beam.
- Attached with M24, 10.9 grade bolts (not provided).
- Protection: 3-layer system.
- RAL 1028 yellow polyuretne finish.
- Maximum hoisting speed = 16m/min.

Options

- Lockable main switch.
- Standpipe.
- Rotation slowing device (adaptable without welding or mechanical intervention).
- Rotation stops to weld onto the assembly.
- Single- or multi-position rotation lock.
- Electric or manual hoist.

VERLINDE Wall-mounted Jib Cranes

VATAL

Loads of 63 to 2,000kg.
Span from 2 to 8 meters according load.

Description

- Light construction.
- EUROSYSTEM ALU hollow-section, aluminum wall jib crane for indoor use, 180° rotation, with overbraced beam.
- This type of jib crane cannot be motorized.
- Horizontal and vertical reactions are understood to be under nominal load.
- RAL 1028 yellow polyurethane finish for the attachment.
- Attached with M24, 10.9 grade bolts (not provided).
- Hoist trolley provide.
- Power supply cable provided.
- Maximum hoisting speed = 16 m/min.

Options

- Lockable main switch.
- Rotation slowing device (adaptable without welding or mechanical intervention).
- Rotation stops to bolt.
- Single or multi-position rotation lock.
- Electric or manual hoist.

VAI

Loads of 125 to 4,000kg.
Span from 2 to 7 meters according load.

Description

- Wall jib crane for indoor use, 180° rotation, with underbraced beam.
- Uses M24, 10.9 grade bolts (not provided) for attachments N°1 and N°2, and M27, 10.9 grade bolts (not provided) for attachments N°5 and N°6.
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

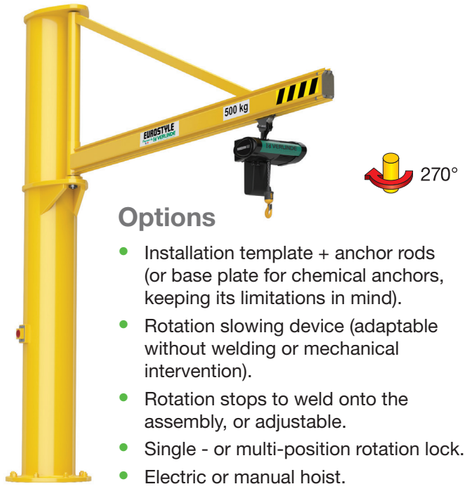
Options

- Hoist power supply cable + lockable main switch.
- Standpipe.
- Rotation slowing device (adaptable without welding or mechanical intervention).
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly.
- Single or multi-position rotation lock.
- Outdoor use.
- Motorization.
- Electric or manual hoist.

VERLINDE Overbraced column-mounted Jib Cranes

VFT

Loads from 125 to 2,000kg.
Span from 2 to 8 meters according load.
Height under beam: 2.5m.



Options

- Installation template + anchor rods (or base plate for chemical anchors, keeping its limitations in mind).
- Rotation slowing device (adaptable without welding or mechanical intervention).
- Rotation stops to weld onto the assembly, or adjustable.
- Single - or multi-position rotation lock.
- Electric or manual hoist.

Description

- Standard underbeam clearance = 2.5m, adjustable higher or lower, accordingly modifying overall height measurement; for clearance higher than 4m, contact us.
- EUROSYSTEM ST hollow-section pillar jib crane for indoor use, partial 270° rotation, with overbraced beam.
- This type of jib crane cannot be motorized.
- Theoretical deflection under nominal load = approximately 1/250th of the span + height, without exceeding 1/100th of the span in itself.
- The Maximum Moment (MM) is given as a rough guide and under nominal load.
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Hoist trolley provided.
- Power supply cable provided.
- Maximum hoisting speed = 16m/min.

VFTS

Loads from 63 to 2,000kg.
Span from 2 to 8 meters according load.
Height under beam: 2.5m.

Options

- Installation template + anchor rods (or base plate for chemical anchors, keeping its limitations in mind).
- Hoist power supply cable.
- Lockable main switch.
- Rotation slowing device (adaptable without welding or mechanical intervention).

Description

- Pillar jib crane for indoor use, partial 270° rotation, with overbraced beam.
- This type of jib crane cannot be motorized.
- Theoretical deflection under nominal load =
- approximately 1/250th of the span + height, without exceeding 1/100th of the span in itself.
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly, or adjustable.
- Single or multi-position rotation lock.
- Electric or manual hoist.
- Outdoor use.

VERLINDE Overbraced column-mounted Jib Cranes

VFTAL

Loads from 63 to 2,000kg.
Span from 2 to 8 meters according load.
Height under beam: 2.5m.

270°

Description

- Pillar jib crane for indoor use, partial 270° rotation, with underbraced beam.
- This type of jib crane cannot be motorized.
- Theoretical deflection under nominal load =
- approximately 1/250th of the span + height, without exceeding 1/100th of the span in itself.
- The Maximum Moment (MM) is given as a rough guide and under nominal load.
- Protection: 3-layer system, RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

Options

- Installation template + anchor rods (or base plate for chemical anchors, keeping its limitations in mind).
- Hoist power supply cable.
- Lockable main switch.
- Rotation slowing device (adaptable without welding or mechanical intervention).
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly, or adjustable.
- Single or multi-position rotation lock.
- Outdoor use.
- Electric or manual hoist.

VFI

Loads from 125 to 2,000kg.
Span from 2 to 7 meters according load.
Height under beam: 3m.


270°

Description

- Standard underbeam clearance = 2,5m, adjustable higher or lower, accordingly modifiying overall height measurement ; for clearance higher than 4m, contact us.
- EUROSYSTEM ALU hollow-section, aluminum pillar jib crane for indoor use, partial 270° rotation, with overbraced beam.
- This type of jib crane cannot be motorized.
- Theoretical deflection under nominal load =
- approximately 1/250th of the span + height,
- without exceeding 1/100th of the span in itself.
- RAL 1028 yellow polyurethane finish for the pillar.
- Hoist trolley provide.
- Power supply cable provided.
- Maximum hoisting speed = 16 m/min.

Options

- Lockable main switch.
- Installation template + anchor rods (or base plate for chemical anchors, keeping its limitations in mind).
- Rotation slowing device (adaptable without welding or mechanical intervention).
- Adjustable rotation stops.
- Single or multi-position rotation lock.
- Electric or manual hoist.

VERLINDE Full slewing column mounted Jib Cranes

VFP

Manual rotation.
Loads from 125 to 10,000kg.
Span from 2 to 12 meters according load.
Height under beam: 3m.

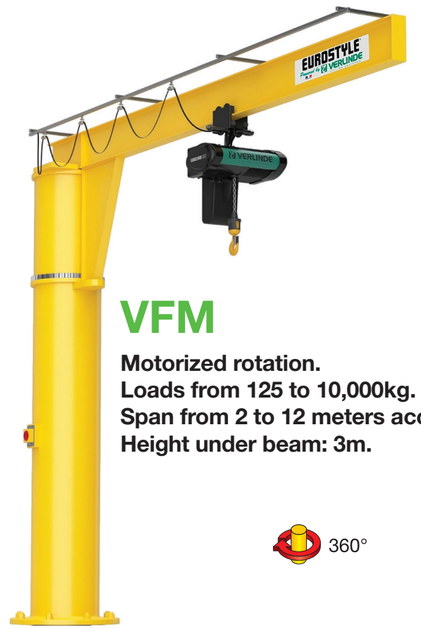
360°

Description

- Full-rotation pillar jib crane with underbraced beam.
- Theoretical deflection under nominal load = approximately 1/250th of the span + height, without exceeding 1/100th of the span in itself.
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

Options

- Installation template + anchor rods (or base plate for chemical anchors, keeping its limitations in mind).
- VFM Motorization on main roller (indoor use).
- VFM Top-mounted motorization (outdoor use).
- Hoist power supply cable.
- Lockable main switch.
- 4-ring electrical collector, for unlimited rotation.
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly.
- Single- or multi-position rotation lock.
- Outdoor use.
- Electric or manual hoist.



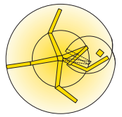
VFM

Motorized rotation.
Loads from 125 to 10,000kg.
Span from 2 to 12 meters according load.
Height under beam: 3m.

360°

VERLINDE "Templier" Jib Cranes with articulated arms

The "Templier" articulated jib crane by VERLINDE can easily handle loads from 50 to 1,000kg, over a 5 to 2m span, almost full circle, and practically no dead space (the articulated arm allows working around obstacles.



Jib crane mounted on column.

Entirely independent from the building, anchored to the ground. This crane can serve an almost circular working area with a maximum radius of 5 meters.

Templier TC

Premium

Loads from 50 to 1,000kg. Span from 2 to 5 meters according load. Height under upper lifting hook: 3m.

Description

- Articulated wall jib crane for indoor use, 360° rotation for arm
- 1 and 300° rotation for arm 2.
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

Options

- Hoist power supply cable + lockable main switch.
- Standpipe.
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly.
- Single- or multi-position rotation lock (arm 1 only).
- Electric or manual hoist.
- Outdoor use.

Templier TCC

ECO

Loads from 125 to 250kg. Span from 2 to 5 meters according load. Height under upper lifting hook: 3m.

Description

- Articulated pillar jib crane for indoor use, 270° rotation for arm 1 and 300° rotation for arm 2.
- This type of jib crane cannot be motorized.
- Theoretical deflection under nominal load = approximately 1/250th of the span + height, without exceeding 1/100th of the span in itself.
- Protection: 3-layer system, RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

Options

- Hoist power supply cable.
- Lockable main switch.
- Hot dip galvanizing (contact us).
- Butées de rotation à souder au montage.
- Rotation stops to weld onto the assembly, or adjustable, on 1 arm.
- Outdoor use.
- Electric or manual hoist.Single- or multi-position rotation lock (arm 1 only).
- Electric or manual hoist.
- Outdoor use.

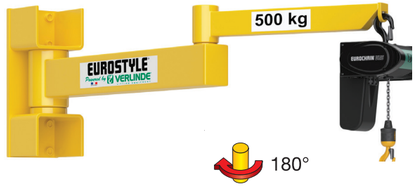
Jib crane mounted on bracket.

This crane serves an almost circular working area with a radius of 5 meters (secured to a wall or mast post).

Templier TA

Premium

Loads from 500 to 1,000kg.
Span from 2 to 5 meters according load.



Description

- Articulated wall jib crane for indoor use, 180° rotation for arm 1 and 300° rotation for arm 2.
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

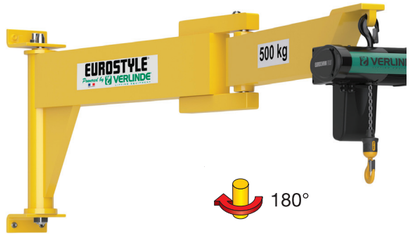
Options

- Hoist power supply cable + lockable main switch.
- Standpipe.
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly.
- Single- or multi-position rotation lock (arm 1 only).
- Electric or manual hoist.
- Outdoor use.Outdoor use.

Templier TCA

ECO

Loads from 125 to 250kg.
Span from 2 to 5 meters according load.



Description

- Articulated wall jib crane for indoor use, 180° rotation for arm 1 and 300° rotation for arm 2.
- Attached with M24, 10.9 grade bolts (not provided).
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

Options

- Hoist power supply cable + lockable main switch.
- Standpipe.
- Rotation slowing device (adaptable without welding or mechanical intervention).
- Option of a slowing device on each arm.
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly.
- Single- or multi-position rotation lock (arm 1 only).
- Electric or manual hoist.
- Outdoor use.Outdoor use.Outdoor use.

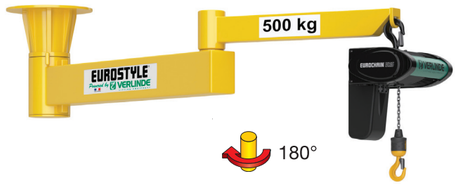
Jib crane mounted on roof.

This crane can serve an almost circular working area with a radius of 5 meters (secured to a ceiling or members of the structural frame of the building).

Templier TSR

Premium

Loads from 500 to 1,000kg.
Span from 2 to 5 meters according load.



Description

- Articulated wall jib crane for indoor use, 360° rotation for arm 1 and 300° rotation for arm 2.
- Protection: 3-layer system.
- RAL 1028 yellow polyurethane finish.
- Maximum hoisting speed = 16m/min.

Options

- Hoist power supply cable + lockable main switch.
- Standpipe.
- Hot dip galvanizing (contact us).
- Rotation stops to weld onto the assembly.
- Single- or multi-position rotation lock (arm 1 only).
- Electric or manual hoist.
- Outdoor use.

VERLINDE LIFTING EQUIPMENT EUROSYSTEM STD

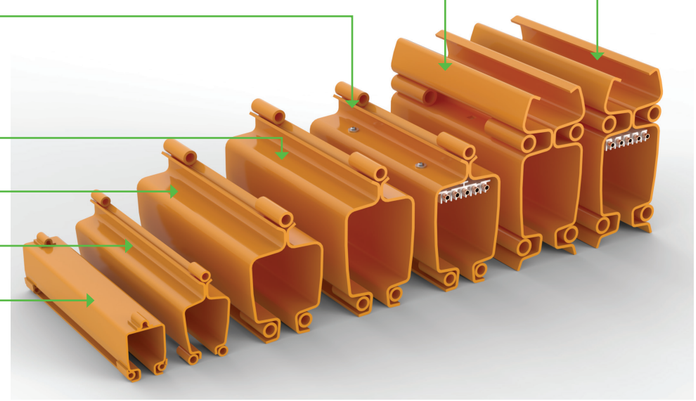
Overhead handling system in steel profile for loads of up to 2,000kg.

Steel profiles

Load capacity of up to 2,000kg according to profile. The basic component of the overhead handling system is a cold-formed high strength hollow steel profile that provides an extremely uniform surface. The closed structure of the profile makes it possible to keep the inside of the runway clean.

There are 5 sizes in the range of profiles that can be selected depending on the load capacity and the distance between the suspension points:

- **STD II-H-R** is the strengthened version of the STD II profile with integrated power supply (5 pole conductor).
- **STD II-H** is the strengthened version of the STD II profile for loads of up to 3,200kg.
- **STD II-R** is the STD II profile version with integrated power supply (5 pole conductor).
- **STD II** for loads of up to 2,000kg.
- **STD II-L** for loads of up to 1,000kg.
- **STD I** for loads of up to 500kg.
- **STD 100** for loads of up to 125kg.



Numerous possibilities

This range of profiles associated with other components like suspensions, manual or electric travelling trolleys and cross travel trolleys enable many lifting solutions to be implemented.

- Monorail tracks.
- Runways.
- Single girder overhead cranes.
- Double-beam overhead cranes.
- Telescopic beams.
- Single or complete circuit systems with change of travel direction by switch or multi-directional turntable.

Undeniable advantages

- The loads are easy to handle, thanks to an excellent rolling coefficient.
- Numerous types of fixation, adaptable to any structure.
- Installations are pleasing to the eye.
- The load on the bearing structure is kept to a minimum through the pendular design of the system.
- Monorail tracks, runways and circuits easily extended thanks to the system's modularity.
- Maintenance is practically zero.
- Great flexibility.
- Minimum loss of headroom.
- Installation and fixation by simple bolting.

VERLINDE LIFTING EQUIPMENT EUROSYSTEM ALD

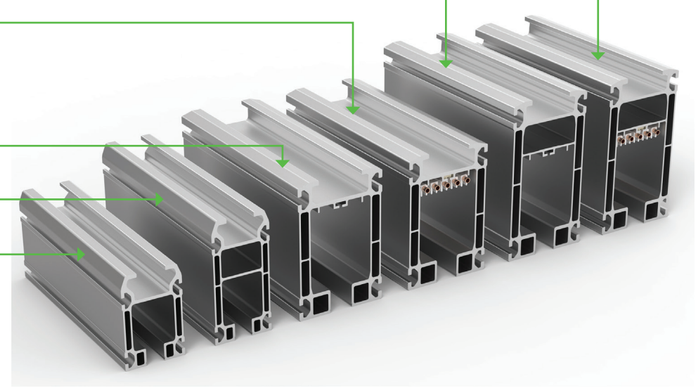
Aluminium hollow profile for overhead handling system with loads of 60 to 2,000kg.

Profiles

Load capacity of up to 2,000kg according to profile. The basic component of the overhead handling system is a cold-formed high strength hollow steel profile that provides an extremely uniform surface. The closed structure of the profile makes it possible to keep the inside of the runway clean.

There are 4 sizes in the range of profiles (2 of them available with integrated power supply), that can be selected depending on the load capacity and the distance between the suspension points:

- **A 22 R** is the strengthened version of the ALD A22 profile with integrated power supply (5 pole conductor).
- **A 22** for loads of up to 2,000kg.
- **A 18 R** is the strengthened version of the ALD A18 profile with integrated power supply (5 pole conductor).
- **A 18** for loads of up to 1,000kg.
- **A 16** for loads of up to 500kg.
- **A 12** for loads of up to 500kg.



Numerous possibilities

This range of profiles associated with other components like suspensions, manual or electric travelling trolleys and cross travel trolleys enable many lifting solutions to be implemented.

- Monorail tracks.
- Runways.
- Single girder overhead cranes.
- Double-beam overhead cranes.
- Telescopic beams.

Undeniable advantages

Eurosystem ALD Aluminium represents a new generation of hollow profile handling systems. This innovative solution presents the combined advantages of conventional steel and aluminium hollow profile. Steel and aluminium profile may combined. Similar advantages coming from Steel with benefits from Aluminium.

- **ERGONOMIC.** Light rails means users can very easily and effortlessly handle heavy and cumbersome loads.
- **ACCURATE.** Accuracy is ensured through high quality manufacture and smooth movements.
- **ANTICORROSION.** The aluminium profiles are externally and internally anodised.
- **SAFETY.** The beam is guaranteed without welding.
- **TECHNOLOGICAL.** The beam is the result of the latest innovations in cold extrusion and structure optimisation.
- **PRACTICAL.** The beam is compatible with all ITEM standard accessories.
- **LASTING.** Strong resistancy to wear and tear is the result of anodisation and the roller materials.
- **SILENCE.** Operates silently due to the precise manufacture of the movement surface.

VERLINDE LIFTING EQUIPMENT EUROSYSTEM STD & ALD

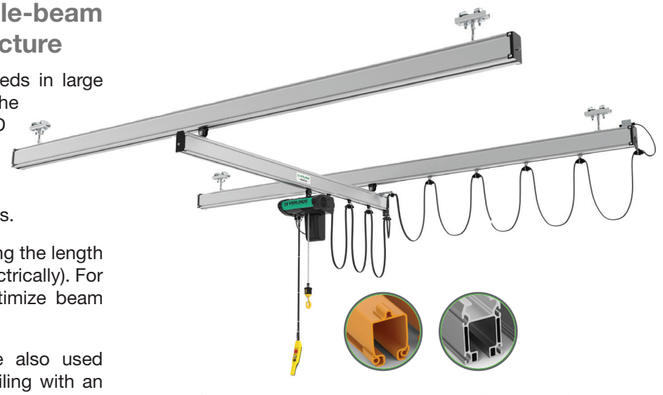
Overhead handling system in steel and alu profile for loads of up to 2,000kg.

Suspended or encastred single-beam crane, rigid or articulated structure

Practical solution designed for handling needs in large facilities. Reduced approach distances and the compactness of EUROSYSTEM STD and ALD components enable optimization of working space. This characteristic enables access for handling to non-rectangular spaces and to areas inaccessible to conventional systems.

Suspended on trolleys, the girder travels along the length of the runway profiles (driven manually or electrically). For longer spans, rigid connections enable optimize beam travel.

EUROSYSTEM STD and ALD profiles are also used as runways and can be attached to the ceiling with an appropriate suspension system.



1 Single-beam suspension crane with manual travel and crosstravel, **articulated structure**.

2 Single-beam suspension crane, electric travel and cross-travel, **rigid structure**.

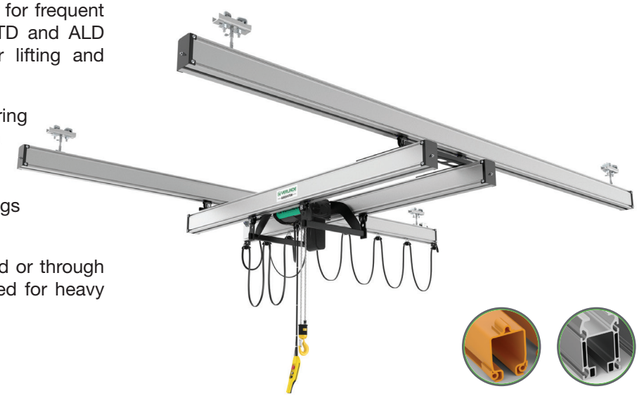
3 Single-beam encastred crane with electric travel and cross-travel, **rigid structure**.

Double-beam suspended or encastred crane, rigid or articulated structure

For much heavier loads over wide spans or for frequent manipulation cycles, the EUROSYSTEM STD and ALD double-beam crane will be ideal for your lifting and handling requirements.

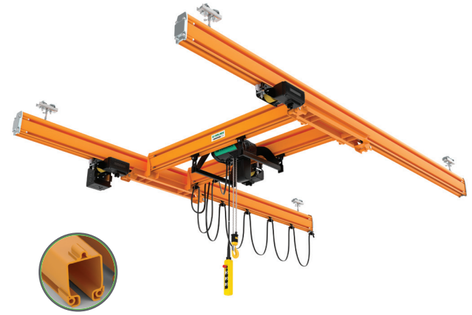
The design of the encastred hoistbearing trolley travelling between beams enables a minimum loss of headroom. The crane also enjoys great travel flexibility through the use of trolleys with synthetic rollers on ball bearings inside the profiles.

Travel is achieved either by pushing the load or through the use of a motorized trolley (recommended for heavy loads and long spans).



4 Double-beam suspension crane with manual travel and cross-travel, **articulated structure**.

5 Double-beam suspension crane, electric travel and cross-travel, **rigid structure**.

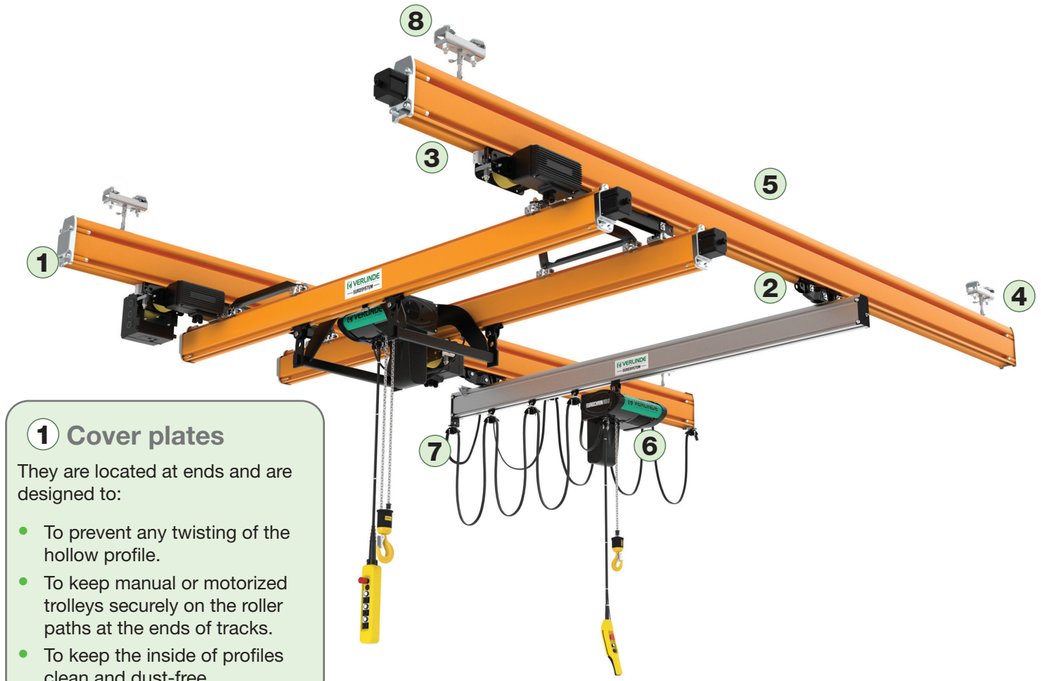


6 Double-beam encastred crane with electric travel and transfer, **rigid structure**.

Type of constructions:	Item	EUROSYSTEM STD	EUROSYSTEM ALD
Single beam suspended crane with articulated structure	1	✓	✓
Single beam suspended crane with rigid structure	2	✓	✓
Single beam encastred crane with rigid structure	3	✓	
Double beam suspended crane with articulated structure	4	✓	✓
Double beam suspended crane with rigid structure	5	✓	✓
Double beam encastred crane with rigid structure	6	✓	

VERLINDE LIFTING EQUIPMENT EUROSYSTEM STD & ALD

Overhead handling system in steel and alu profile for loads of up to 2,000kg.



1 Cover plates

They are located at ends and are designed to:

- To prevent any twisting of the hollow profile.
- To keep manual or motorized trolleys securely on the roller paths at the ends of tracks.
- To keep the inside of profiles clean and dust-free.

2 Trolleys

Any system can be equipped with trolleys in order to ensure travel and transfer movement of hoist and suspension crane.

The range of available stand-alone trolleys is very comprehensive and will meet all your requirements:

- Single, double or articulated manual trolleys.
- Simple, double or articulated motorized trolleys.

The contact surface with the internal part of the profile has been reduced to obtain a remarkable rolling coefficient: thus ensuring noiseless and effortless movement. The trolley rollers are synthetic for reasons of minimum routine maintenance and excellent resistance to wear. Furthermore, they have a shockdampening effect and remain noiseless, even at high travel speeds.

Through the modularity of the EUROSYSTEM STD and ALD overhead handling system, a manual trolley can be replaced at a later date by an electric trolley.

The electric trolleys are fitted with solid rubber drive wheels to obtain high torque drive and a low operating sound level.

3 Hollow profiles assembly

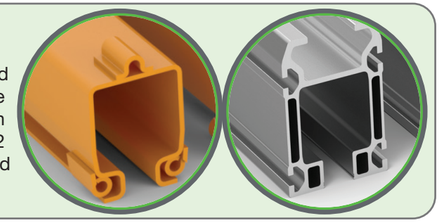
The assembly of the profiles is done with connection bolts and connection parts with adapted locating features.

4 Threaded rods

Threaded rods are inserted on suspension systems to facilitate height adjustment.

5 Profiles

There are 5 sizes in the range of profiles that can be selected depending on the load capacity and the distance between the suspension points. All the profiles receive an anti-corrosion protective treatment and then a coat of finishing paint (RAL 2002 or other RAL in option) (cataphoresis process) or are galvanized (option).



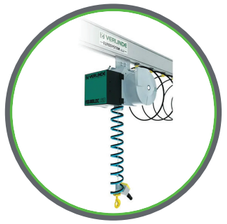
6 Manual, electric or pneumatic lifting units

Hand chain hoist VHR for loads of 250 to 5,000kg: the chain sprocket and gears are machined to provide smoother, more efficient operations and smoother lifting manoeuvres. VHR's compact design offers safety together with reduced weight. This hoist is ideal for construction, assembly and maintenance applications.

Lifting functions are fulfilled by **EUROCHAIN** hoists with a wide range of load capacities and lifting speeds. These hoists can be equipped with either a manual or an electric trolley for horizontal movement.

- Load capacity from 63 to 2,000kg.
- Lifting height from 3 meters (standard) and up to 30m.

- Two lifting speeds.
- A number of optional features are available for these hoists (remote control system, hook version and stainless steel chain, manipulator on hook, speed variation,…).



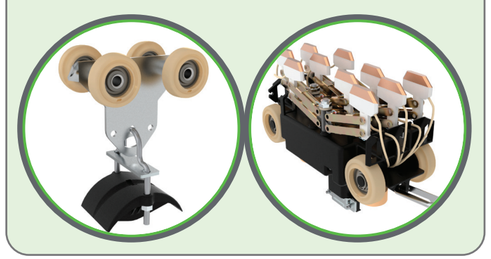
EQUIBLOC AIR is delivered with the following standard equipment:

- Lift and lowering control circuit.
- 6m of cable with hook.
- Spiral flexible control conduit,
- Valve-box type control interface.
- Proportional lift and lowering control unit with load balancing system.
- With safety valve to keep pressure in tank if the control tube is cut.

7 Power feed systems

Two types of power feed systems are available:

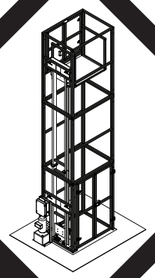
- As exterior flat cables to the profile (daisy chain) with specific cable bearing trolleys for hollow profiles
- Power feed integrated in profile (5 pole conductor).

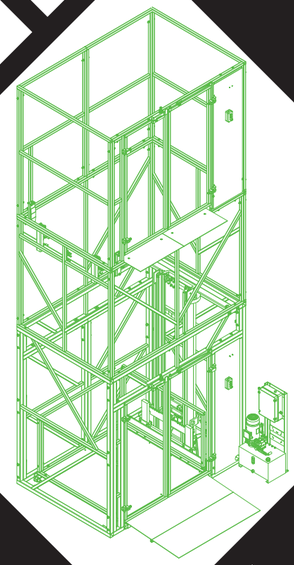


8 Suspensions

They allow fitting the light crane system to the support structure. Several types of suspensions are available according to the type of profile used, and the type of structure supporting the system. Thanks to their design (selflocking parts, articulated structure, easy adjustments, etc.).

EUROSYSTEM STD and ALD suspensions allow greater flexibility when being installed, prevent internal pressure and balance any possible irregularities of the support structure. An antifriction system of synthetic material is included on the flexible coupling to reduce the noise level and reduce routine maintenance of joints to a minimum.





13

PROLIFT
HANDLING LTD

Lift Tables and Goods Lifts

JIHAB Single scissors and high-lift

JIHAB Single

JIHAB Single is a single scissor lift table. This design is the basic model which forms the foundation of the entire JIHAB lifting table range.

JIHAB Single can be used in a very wide range of applications in production, material handling and distribution, and as a component of a logistics system. JIHAB Single is a cost-effective handling product which can help you to design an ergonomically correct workplace.

JIHAB Single can be designed and equipped to meet user specifications and requirements.

JIHAB High-lift

JIHAB High-lift has multiple vertical scissor packages. Using several vertical scissor packages gives higher lifting movement without increasing the length of the lifting table.

This reduces space requirements. JIHAB High-lift can be used in places where large lifting movement is required. Such as in various types of lifts, working platforms and pallet stackers.

JIHAB High-lift can be designed and equipped to meet user specifications and requirements.

JIHAB Long load and loading dock

JIHAB Long-load

JIHAB Long-load has multiple horizontally arranged scissor packages.

Using several horizontally arranged scissor packages gives a longer table length and lifting capacity. The movement of the scissor packages is coordinated to give parallel lifting movement. JIHAB Long-load is an excellent choice when you need to handle long and heavy goods.

JIHAB Long-load can be designed and equipped to meet user specifications and requirements.

JIHAB Loading dock

JIHAB Loading dock is designed for harsh environments and heavy loads.

It is at its best when used for loading and unloading in a loading bay, often outdoors. This job subjects the lifting table is to heavy loads, often concentrated to one point.

JIHAB Loading dock can be designed and equipped to meet user specifications and requirements.

JIHAB Low profile and U-shaped low profile

JIHAB Low profile/JIHAB Low profile U

Both models are designed as low-profile lifting tables, and do not require a pit in the floor - this makes them much more flexible and gives them a wider range of potential applications. JIHAB Low profile is provided with a ramp when goods are handled with a pallet lifter.

JIHAB Low profile U does not need a ramp, it can be loaded and unloaded directly from the floor with a pallet lifter. Both types of lifting table are suitable for use in a correctly designed ergonomic workplace. JIHAB Low profile and JIHAB Low profile U have the same performance:

Performance:

- Lifting capacity up to 2,000Kg
- Lifting movement 800mm
- Lifting table size max 1,400 x 1,200mm

Both models can be designed and equipped to meet user specifications and requirements. JIHAB Single can be designed and equipped to meet user specifications and requirements.

JIHAB Vehicle carrier and Low cost models

JIHAB Vehicle

JIHAB Vehicle is only intended for transporting cars/vehicles between different floors, such as in sales and exhibition halls and multi-storey car parks.

The lifting table is designed for even loading. It is not intended for passenger carrying. Special user instructions and safety rules apply to installation and operation.

JIHAB Vehicle can be designed and equipped to meet user specifications and requirements.

JIHAB Low-cost

JIHAB Low-cost is available as standard units which can not be specially equipped or designed to suit customer requirements.

They are offered at a very attractive price for traditional lifting table use. JIHAB Low cost is not designed for continual use in production lines etc.

Performance:

- Lifting capacity 500, 1,000 and 2,000Kg
- Lifting movement 800 mm
- Lifting table size max 1,200 x 800 mm or 1,350 x 800mm

JIHAB Equipment

There is an extensive range of optional equipment, in addition to the standard JIHAB range, which offers extensive customisation of a standard lifting table.

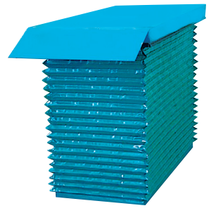
We would be happy to equip your lifting table so that it gives you maximum economy and correct ergonomy.

Only a small selection of our optional equipment is shown in the pictures.







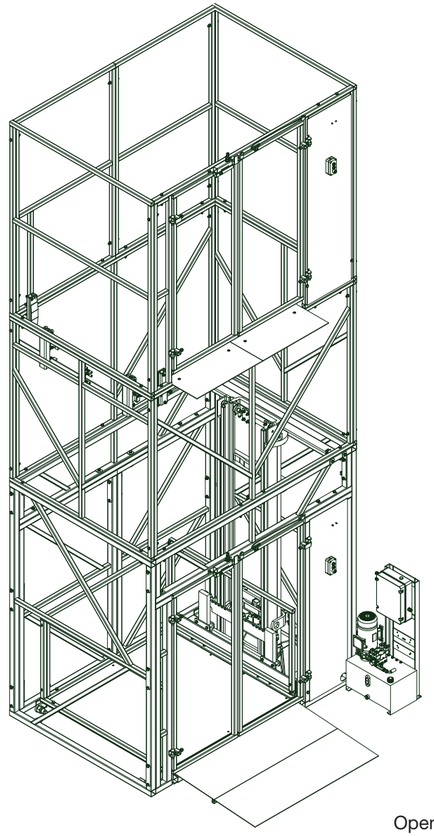

Mezzanine floor goods lifts.

Mezzanine floor lifts are manufactured locally allowing both standard and bespoke designs to be installed within short lead times. Our comprehensive project management helps you from site assessment through the design, manufacture and installation phases of the project, including whole life maintenance.

Standard Safety Features

The following safety features are standard across the MezzLift range:

- CE marked and built in conformance with:
  - Machinery Directive 2006/42/EC
  - Lifting Operations & Lifting Equipment Regulations 1998
  - The Provision & Use of Work Equipment Regulations 1998
- Level gates fitted with electrical & mechanical interlocks
- Hazard warning safety signs
- Comprehensive O&M manual
- Emergency stop button fitted to all control stations
- Anti-slip platform surface
- Hose burst protection
- Overload protection



NEW! MezzLift Heavy Duty

The new, MezzLift Heavy Duty is a robust and versatile mezzanine floor lift for handling loads up to 1000kg between floors in warehouses, factories, retail stores and workshops.

Features

- 1,000kg maximum working load
- Usable platform size1,500mm x 1,500mm
- 2 stop lift, up to 4,000mmtravel height
- Ground to mezzanine floor
- 2,000mm high double gatesat both levels
- Platform safety lock at upper level
- Electrically interlocked gates
- Constant pressure control buttonsat both levels
- Floor mounted, no pit required
- Self-supporting mesh shaft
- Same side or through car loading

Options

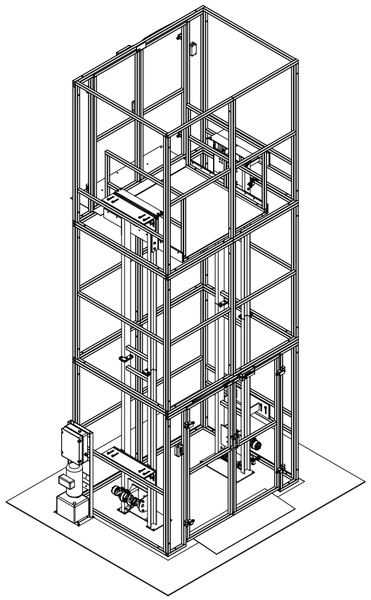
- Bespoke platform sizes
- Additional entrances
- Trolley stop barriers on platform
- Outside installation
- Choice of finish
- Clad enclosure


Open cage at mezzanine level


Pallet loading


Control buttons

Mezzanine floor goods lifts.



MezzPro

The MezzPro is a goods lift which enables users to move goods such as trolleys or pallets safely and efficiently to a second floor within buildings, for example mezzanine floors.

Features

- 500kg maximum working load
- Opposed mast support for minimalplatform deflection
- Lift speed approx. 0.15m/s
- Fixed platform A -1,300mm x 1,300mmor fixed platform B -2,000mm x 1,000mm
- 2 stop lift, up to 4,000mmtravel height
- Ground to mezzanine floor
- 2,000mm high double gatesat both levels
- Electrically interlocked gates
- Constant pressure control buttonsat both levels
- Floor mounted, no pit required
- Self-supporting mesh shaft
- Same side or through car loading

Through car loading

Options

- Bespoke platform sizes
- Increased gate height
- Outside installation
- 90° loading or additional entrances
- Trolley stop barriers on platform
- Clad enclosure
- Choice of finish

Interlocked gate at upper level

MezzLight

The MezzLight is a simple, robust and versatile mezzanine floor lift for handling loads up to 250kg between floors in warehouses, factories, retail stores and workshops.

Features

- 250kg maximum working load
- Lift speed approx. 0.15m/s
- Usable platform size1,300mm x 1,100mm
- Will lift Euro & UK pallets
- 2 stop lift, up to 4,000mmtravel height
- 2,000mm high double gatesat both levels
- Electrically interlocked gates
- Constant pressure control buttonsat both levels
- Floor mounted, no pit required
- Self-supporting mesh shaft
- Same side or through car loading

Self-supporting mesh shaft

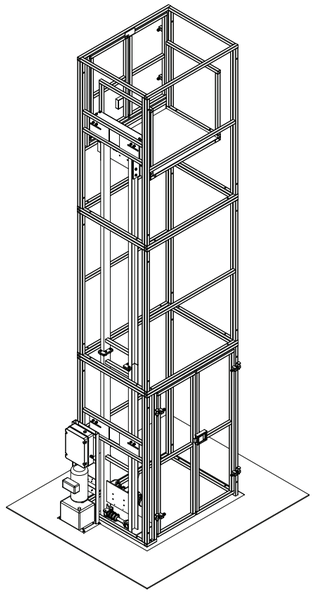
Options

- Bespoke platform sizes
- Increased gate height
- Outside installation
- Choice of finish
- 90° loading or additional entrances
- Trolley stop barriers on platform
- Clad enclosure

Pallet loading ramp

MezzLight Handloaded

The MezzLight Handloaded is designed to easily load and unload goods such as crates and boxes at waist height.



Features

- 250kg maximum working load
- Lift speed approx. 0.15m/s
- Usable platform size 1,000mm x 800mm
- 2 stop lift, up to 4,000mm travel height
- Ground to mezzanine
- Docks 800mm above floor height
- Slam shut gates
- Hold to run handle at lower level
- Same side or through car loading

Options

- Bespoke platform sizes
- Increased gate height
- Outside installation
- Choice of finish
- 90° loading or additional entrances

Waist level access

Docks 800mm above floor height

Ground to mezzanine

Loading Bay design

Vertical BayLift with platform lowered

BayLift

The BayLift is ideal for lifting loads between different levels where the height difference is less than 1500mm, such as loading bays and docks.

With no need for a lift pit the BayLift offers a practical load handling solution where alternative equipment such as conventional scissor lifts or dock levellers cannot be installed.

Separate versions are available with capacities from 500kg to 1,000kg along with a range of platform sizes that ensure the BayLift can safely handle crates, pallets, roll cages, sack barrows and many other loads.

Features

- 500kg or 1,000kg maximum working load
- Platform size up to 2,400mm x 1,500mm
- Folding barrier on platform
- 2 stop lift, up to 1,500mm travel height
- Constant pressure control
- Floor mounted, no pit required
- Folds away after use

Options

- Bespoke platform sizes
- Trolley stop or anti-roll-off toe on platform
- Outside installation
- Free standing mounting bracket

14

PROLIFT HANDLING LTD

Proximity Warning and Safety Systems

QS-V3 Lone Worker Alarm

The most advanced lone worker alarm available.

4G 2G/3G/as back up

Up to 4 location technologies: GPS.BLE.Wifi.LBS

Features

- **SOS Alarm**
  To call and to send SMS messages, GPRS data, with alarm and location information.
- **TTS Voice**
  Smart speaking to deliver important information to users, supporting 11 languages.
- **Fall Detection**
  Built-in sensors to detect the fall and automatically activate the alarm.
- **Bluetooth Positioning**
  Connection to the docking station DS3 via Bluetooth allows a power-saving home mode.
- **Two-way Calling**
  Support various 4G bands. Use two-way calling at any time at the touch of a button.
- **No Motion Alarm**
  Alarm will be automatically activated for no motion for a preset period of time.
- **Wi-Fi**
  Being in the range of Wi-Fi allows a power-saving home mode.
- **Geo Fence**
  To generate the alerts when entering or leaving a particular area.

General specifications

- Dimensions: 52mm x 47mm x 17mm
- Weight: 53g
- Battery: Rechargeable 3.7v, 950 mAh
- Charging voltage: 5v DC
- Operating temperature:
  -20º to + 60º for working
  -30º to + 70º for storage
- Battery life: 3-5 days usage
- Waterproof: IPX7

Hardware specifications

- Multi-network roaming SIM
- Sensor: motion and vibration sensors
- Connectors: 4-pin magnet for charging
- SIM card slot: nano SIM card
- Flash memory: 8GB
- Built-in microphone and speaker
- Antenna: built-in laser curbed antenna

GPS

- GPS chipset: support GPS and Glonass
- AGPS: yes
- Receiver frequency: 1575.42MHz
- Cold start: approx 26s
- Warm start: approx 2s

4G LTE

Supported bands:

- UK/EU: B1/B3/B7/B8/B20

Vehicle To Vehicle Anti-Collision System

Reduces the risk of impacts and collisions between industrial vehicles.

The vehicle to vehicle system offers reliable long-range vehicle detection to reduce the risk of impacts and collisions between vehicles used in the workplace.

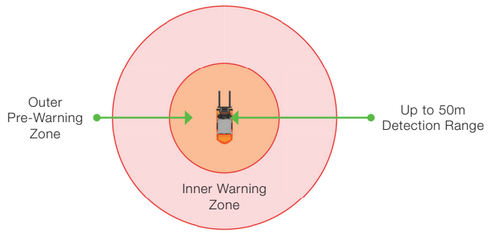
Two configurable warning zones, an outer pre-warning zone, and an inner warning zone are available with each system.

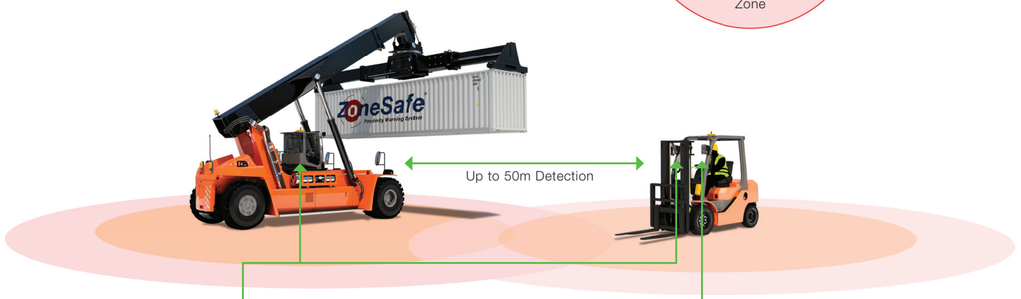
Connecting to the system via a web-enabled device allows you to easily configure detection ranges, alarm volume and alarm sounds.

- Reduce impacts and collisions
- Long-range detection
- Fits to any workplace vehicle
- Easy Conguration
- Audible visual alarms

Person To Vehicle Alert | Vehicle To Vehicle Alert | Asset Protection | Access Control | Insight Data Analytics

Vehicle Detection Zones

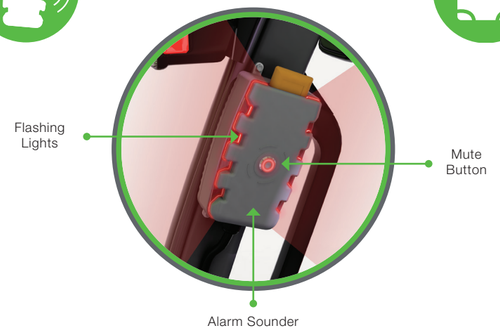




Control Unit
Audible visual warnings and system conguration

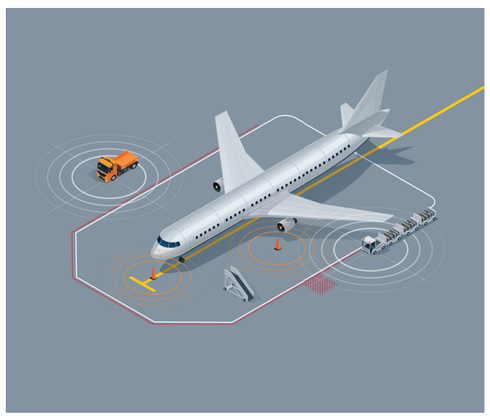
Control Unit

Vehicle To Vehicle Unit
Communicates with other V2V units



ZoneSafe Asset Protection

Protect your assets from the risk of collisions with ZoneSafe Asset Protection.



Why protect assets?

Buildings, machines, vehicles, equipment or dangerous and hazardous materials – all assets in working environments are at risk when in close proximity to moving vehicles.

ZoneSafe Asset Protection is a Proximity Detection System that helps to prevent collisions between assets and vehicles, increasing safety and awareness across work sites.

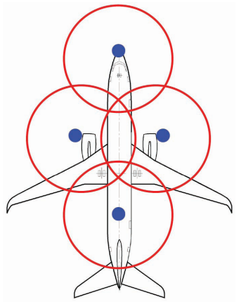
Person To Vehicle Alert | Walkway And Crossing Alert | Hazard Alert | Access Control | Insight Data Analytics

How the ZoneSafe system works

Safety detection cones, fitted with ZoneSafe fitted tags are placed on or around an asset. Vehicles are tted with a ZoneSafe in-cab control unit with detection antennas. The antenna creates a 360° continuous detection zone around the vehicle – with an adjustable range of 3-9 metres.

When the system identies a cone tag within the vehicle's zone, the control unit emits an audible and visual alarm inside the cab – warning the operator of a potential collision.

The operator of the vehicle can then take appropriate measures to avoid a collision – slowing down or altering course. The alarm will continue to sound until all cone tags are safely clear of the vehicle's zone.



Protecting Aircraft

Our client, Jet2.com offers installed ZoneSafe Asset Protection. This oers a solution to help prevent aircraft damage and reduce the risk of collisions with ground services equipment (GSE) such as baggage handling vehicles and catering trucks.

The system was initially installed at Manchester airport to help reduce damage to aircraft while ground servicing was taking place. Due to the success of the system, Jet2.com has now deployed ZoneSafe Asset Protection across all of the European bases they operate from.

- The asset protection safety cones are strategically placed around the aircraft (blue dots).
- ZoneSafe control units are fitted to ground service vehicles detecting the location of the safety detection cones.
- Depending on the desired activation range congured for each vehicle, a continuous alarm sounds when a safety cone is detected. When the alarm sounds, drivers naturally manoeuvre their vehicles much more cautiously.
- The alarm will continue to sound until the vehicle is clear of the collision risk area. The alarm can be muted when the vehicle is stationary if required.

ZoneSafe Insight Data Management

Identify and review data to improve safety to your work site.

Image above indicates tag battery status and tag detection information.

Image below indicates GPS vehicle location detection.

Improving site safety and increasing awareness of potential incidents can be difficult, as near misses and areas of risk can easily go unreported and overlooked.

ZoneSafe Insight is a cloud based management system that works with all ZoneSafe systems to identify, monitor and log all site activity to enable easy analysis of potential incidents, including near-miss occurrences and high risk activities.

Person To Vehicle Alert | Walkway And Crossing Alert | Asset Protection | Access Control | Hazard Alert

How Insight works

ZoneSafe Insight™ is a cloud based software system used by site managers and supervisors. The system enables them to make insightful and informed decisions relating to site safety.

The system provides users with essential information

recorded by each ZoneSafe system and is displayed in a user friendly, graphical report format. This enables easy analysis of events and identication of incidents such as near-miss occurrences or high-risk activities.

Insight also has the ability to check battery levels, track personnel or vehicle movement, restrict access and more.

ZoneSafe Insight™ employs data management using your own WiFi network, and enables the user to:

- Identify, analyse and compare events
- Manage safety performance
- Log near-miss reporting
- Set up alerts
- Generate reports and share data
- Link with GPS location tracking module
- Link with other ZoneSafe applications

ZoneSafe Drop Zone Proximity Warning

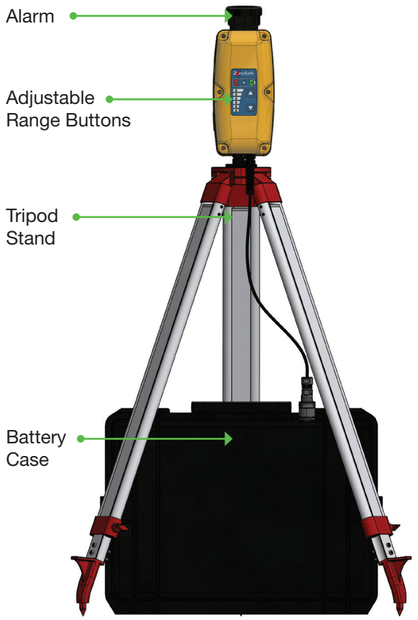
ZoneSafe Drop Zone is used to protect groundworkers from being struck by falling objects / equipment whilst personnel are working at height on structures such as overhead pylons and / or overhead conductors.

When work is undertaken above ground and at height, materials, equipment or tools can be accidentally dropped, causing a significant risk to personnel working on the ground below. The ZoneSafe system creates an invisible demarcation zone below the point of work, known as the 'Drop Zone', and warns the workers when they enter it.

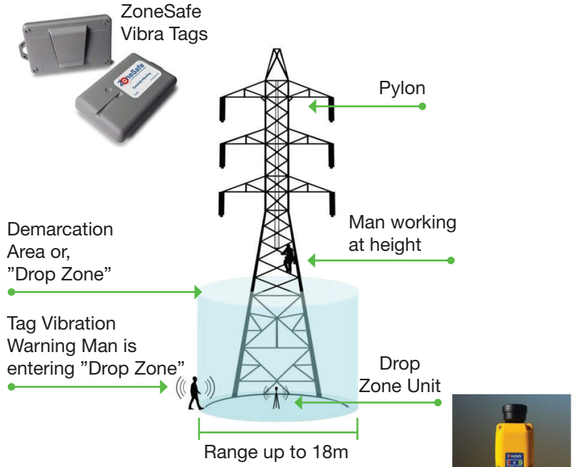
How Does It Work?

- All groundworkers wear a ZoneSafe Tag. This ensures they are detected when entering the drop zone.
- The Drop Zone Detection Unit is set up underneath the overhead work area and creates an invisible demarcation zone around the area of up to 18m diameter.
- An audible and visual warning from the unit alerts all workers when they enter the zone.
- The tag will also vibrate indicating to the groundworkers of the potential danger within the drop zone.
- When the worker exits the drop zone, the alarm stops.

Drop Zone Tags (Rechargeable)



Drop Zone Detection Unit



Drop Zone Unit

ZoneSafe Vehicle to Person Alert

Reduce the risk of injury to personnel, assets and property from Forklift collisions and near miss occurrences.

Accidents occur frequently between heavy machinery (such as forklifts) and pedestrians because of their heavy loads. The driver's vision can be impaired because of the load, there can be blind spots where the vehicle is operating and the forklift can be carrying loads that could strike a pedestrian worker.

ZoneSafe Vehicle to Person is a Proximity Detection System that detects personnel working in close proximity to forklift trucks, reducing the risk of accidental collisions and serious injuries.

System Overview

The in-cab control unit is fitted to the vehicle within reach of the vehicle's operator. An audible visual alarm alerts the driver every time anyone wearing an active RFID tag enters the detection zone. The unit has the capability to store and send data on each ZoneSafe application.

A detection antenna is fitted to the vehicle creating a 3-9 metre detection zone around the vehicle. Anyone wearing an active RFID tag will be identied when they enter the detection zone.

An active RFID tag is worn by all personnel. The tag can be placed in a hi viz jacket, clipped to a lanyard or simply placed in your pocket.

15

Prolift Online and Onsite Training

PROLIFT HANDLING LTD

Service & Training Division

Prolift Service Division

- **Service Provider for Ireland & UK**
- **Thorough Visual Examinations 6 monthly & 12 monthly**
- **Repairs of Lifting, Material Handling and Height Safety Equipment**
- **Installation of Lifting, Material Handing and Height Safety Equipment**
- **Load Testing**
- **24 Hour Emergency Breakdown**
- **On-call service**
- **Accident Investigation**
- **Fabrication division**
- **Training Division**

Business Challenge

Ensuring the safety of workers who operate or work near lifting equipment is crucial. Workplace accidents, including deaths and injuries, remain a significant concern. Regular examinations of lifting equipment are essential to maintain safe working conditions. These inspections not only help in complying with stringent regulatory requirements but also minimize the risk of equipment failure that could lead to serious accidents.

Moreover, regular inspections help in identifying wear and tear, potential defects, and areas needing maintenance, which can prevent costly downtime and enhance the longevity of the equipment. By adhering to a rigorous inspection schedule, businesses can demonstrate their commitment to employee safety, reduce liability, and maintain operational efficiency.

How Prolift can help your business to comply with regulations?

The main priority of Prolift is to ensure all our clients meet all legal and regulatory requirements relating to lifting, material handling and height safety equipment.

In order to achieve this Prolift possesses the largest service division in Ireland and utilises modern technology to give our clients the information they legally require quickly and efficiently.

Our service engineers carry out thorough visual examinations which are required by law, focusing on safety critical components, and primarily aimed at controlling risks associated with the equipment.

For all equipment, the duty holder is responsible for having original certificate on file along with register of examinations for last 5 years.

As well as reporting defects, examinations are aimed at assessing an item's fitness for continued use – that is ensuring that health and safety conditions are maintained, and that any deterioration can be detected and remedied in good time. We also perform functional checks to ensure the items is fit for purpose.

Where an item fails a thorough examination Prolift have the facility to carry out repairs on- site, carry out load tests or replace the item if required. Our aim is to ensure all equipment left on-site is safe to use before we leave site.

According to the Safety Health and Welfare at work (General Application) Regulations 2007 SI no. 299 of 2007, the table below shows the equipment that must be examined as periods stated in the below table.

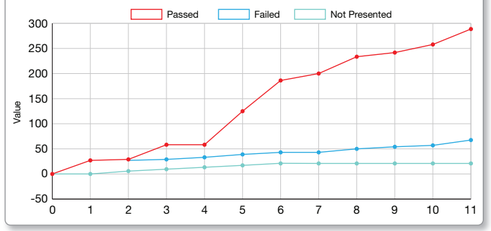
Description of lifting equipment or lifting accessory or other miscellaneous equipment	Period within which a thorough examination must occur
1. Lifting accessories including chain, chain components, lifting points Web slings, shackles, clamps, swivels, spreader beams and spreader frames, all below hook items	6 months
2. Height Safety systems Safety Lifelines, safety barriers, Suspended Access Equipment	6 months
3. Height Safety Equipment – harnesses, lanyards, inertia reels, man-riding anchor points	6 months
4. Mast climbers work platforms	6 months
5. MEWP Mobile elevating work platform (Scissor lift)	6 months
6. Lifts – Passenger Lifts, Goods lifts with people	6 months
7. Lifting Equipment Electric, Pneumatic and manual hoists, gantry cranes, lift tables	12 months
8. Lifting Structures that support lifting equipment – Steelwork, jib cranes, tracks	12 months
9. Cranes Tower Cranes, Mobile Cranes, Dock Cranes	12 months (6 if used to lift persons)
10. Forklift truck and telehandler including interchangeable accessories	12 months (6 if used to lift persons)
11. Goods Lifts – Goods Lifts, Tailboard goods lift	12 months

Post Examinations

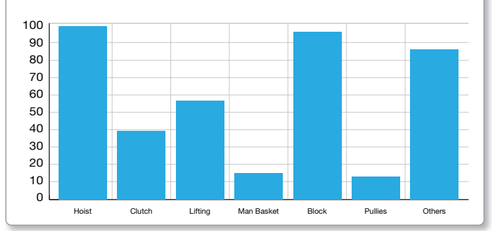
Once examinations are completed you will receive an email with below details from our service department:

- **Report on all items that passed examination**
- **List of Missing items – Items that were on your asset register but not examined**
- **Separate Report on all items that failed examination**
- **Quote for repair or replacement of items that failed**
- **Visual Dashboard displaying Inspection results**

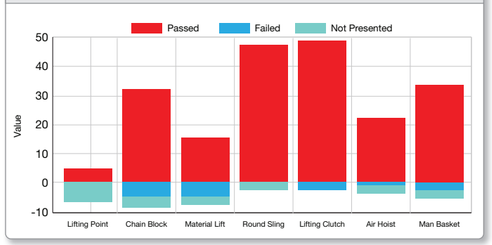
Inspection Outcomes over Time



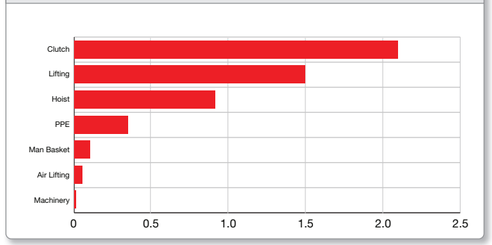
Units by Category



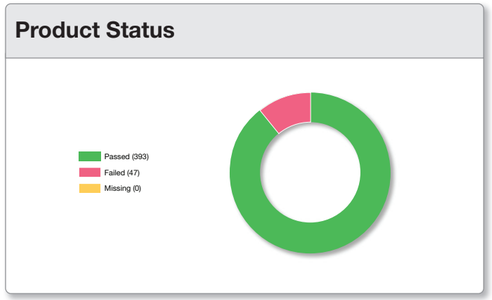
Status by Category



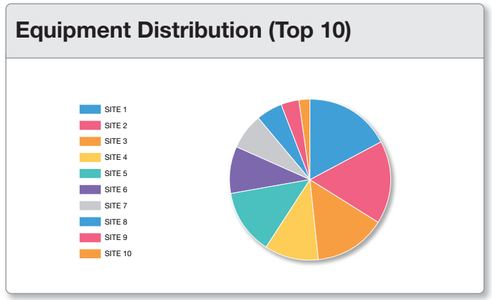
Failures by Category



Product Status



Equipment Distribution (Top 10)



Statistics

Average Failure Rate	10.68%	Thoroughly Examined	440	Defected Products	47

Prolift Service Offering

Lifting Equipment Inspections

Regular Lifting Equipment Inspections are crucial for maintaining a safe and compliant work environment. Our comprehensive inspection services identify potential issues before they escalate, ensuring that all equipment adheres to regulatory requirements. We provide detailed reports and actionable recommendations to help you maintain optimal performance and avoid costly downtime. Our inspections cover a wide range of equipment, including cranes, hoists, slings, and more.

On-Site Asset Management

Our On-Site Asset Management service offers real-time monitoring and management of your lifting equipment. This proactive approach helps you maximize the uptime and performance of your assets. We track equipment usage, maintenance schedules, and compliance status, providing you with valuable insights to make informed decisions. Our goal is to help you streamline operations, reduce risks, and improve overall productivity.

Testing & Repairs

Ensuring the reliability and safety of your lifting equipment is essential. Our Testing & Repairs service includes rigorous testing protocols to assess the condition and performance of your equipment. We perform necessary repairs promptly, using high-quality parts and expert techniques to restore equipment to optimal condition. This service helps prevent unexpected failures and extends the lifespan of your lifting devices, contributing to a safer work environment.

Lifting Equipment Emergency Breakdown Service

In the event of an unexpected equipment failure, our Lifting Equipment Emergency Breakdown Service is here to provide swift and effective solutions 24 hours a day, 365 days a year. We understand the critical impact of downtime on your operations, which is why our team is available to address urgent issues promptly. Our experienced technicians are equipped to diagnose and repair a wide range of lifting equipment problems, minimizing disruption and ensuring your operations can resume quickly and safely.

Thorough Examinations Reports

Our Thorough Examinations Reports service provides a meticulous and comprehensive assessment of your lifting equipment, conducted by a Competent Person. This examination is performed carefully and critically, and where necessary, supplemented by additional methods such as measurement and non-destructive testing to detect any potential damage or deterioration. Following the examination, we provide a Thorough Examinations Report, a certificate that documents the findings and confirms the equipment's compliance with all necessary safety standards.

This service is designed to give you confidence in the reliability and safety of your lifting equipment, helping you to prevent accidents, extend the lifespan of your assets, and maintain uninterrupted operations

Why Choose Prolift

Choosing us as your lifting equipment inspection and services provider guarantees you are partnering with the largest lifting, material handling, and height safety equipment company in Ireland. We are proud to be an ISO 9001 and ISO14001 certified company and full members of the Lifting Equipment Engineers Association (LEEA), ensuring the highest standards in quality and safety. As part of the renowned pewag group, the largest manufacturer of chains and chain components globally, we bring unparalleled expertise and reliability to our services.

Our dedicated service team comprises 15 highly skilled engineers, including five fully qualified electricians and five qualified fitters and welders. This diverse team ensures we can handle any challenge, from complex electrical issues to intricate mechanical repairs. We offer a 24x7 emergency breakdown service for lifting equipment, ensuring that your operations can continue with minimal disruption.

Our comprehensive LOLER (Lifting Operations and Lifting Equipment Regulations) and PUWER (Provision and Use of Work Equipment Regulations) inspections are designed to meet all regulatory requirements, providing you with peace of mind.

To further enhance your experience, we keep track of your equipment, asset management, certification, and maintenance needs through our online portal. This ensures that you have peace of mind, knowing that all aspects of your lifting equipment are monitored and managed efficiently. Our customers will also have access to this portal through which they can download their test certificates anytime as required.

Beyond our technical capabilities, we are committed to providing exceptional customer service. Our extensive industry experience, combined with our commitment to continuous improvement and innovation, makes us the preferred choice for lifting equipment inspection and services. Choose us for our reliability, expertise, and dedication to keeping your operations safe and efficient.

Our Approach

At the core of our services is a structured and thorough approach to ensure the safety, reliability, and compliance of your lifting equipment. Here is how we manage the process:

Scheduling a Site Visit or Booking an Inspection

We begin by coordinating with you to schedule a site visit or book an inspection at a time that suits your operational needs. Our flexible scheduling ensures minimal disruption to your business activities.

Compilation of Current and Past Reports

Before the inspection, we compile and review all current and past reports related to your equipment. This comprehensive review helps us understand the history and condition of your equipment, ensuring a more effective inspection process.

On-Site Inspection

Our team of expert engineers conducts a detailed on-site inspection of your lifting equipment. Utilising advanced tools and techniques, we meticulously check for any signs of wear, damage, or non-compliance with safety standards.

Live Reporting

During the inspection, we provide live reporting to keep you informed of any immediate findings or critical issues that need urgent attention. This real-time communication allows for quick decision-making and action.

Uploading of Reports to Our Online Certificates Tool

After the inspection, all findings and reports are uploaded to our secure online certificates tool. This digital platform ensures you have easy access to your inspection reports, certificates, and other essential documentation at any time.

Follow-Up of Findings

We do not just stop at the inspection. Our team follows up on any findings, providing recommendations and assistance with any required corrective actions. This ensures that all identified issues are addressed promptly and effectively.

Thorough Examinations Reports and Test Certificates

Finally, we issue Thorough Examinations Reports and Test Certificates for your lifting equipment. These documents certify that your equipment has been inspected and meets all regulatory and safety standards, providing you with complete assurance of its reliability and compliance.

Our comprehensive approach is designed to provide you with the highest level of service, ensuring your lifting equipment is safe, compliant, and ready for use.

Industries We Serve

Our expertise in lifting equipment inspection and services spans a diverse range of industries. Here is a brief overview of the sectors we serve and the specific products we inspect:

Construction

In the construction industry, lifting equipment is essential for moving heavy materials, positioning structural elements, and supporting workers at height. Cranes, hoists, and rigging systems are critical to ensuring that projects are completed safely and efficiently.

We offer inspection services for tower cranes, mobile cranes, hoists, lifting slings, and rigging gear. We also carry out certification on plant machinery and install load indicators and height limiters.

Our thorough inspections ensures that all lifting equipment complies with safety regulations and can handle the stresses of daily use. Our services help prevent accidents, reduce downtime, and ensure that construction sites operate smoothly. Whether you are building high-rises, bridges, or infrastructure projects, our expertise keeps your lifting operations safe and reliable.

Industries We Serve

Energy

The energy sector, including oil and gas, nuclear, and renewable energy, relies heavily on lifting equipment for the installation, maintenance, and repair of critical infrastructure. Whether it is handling massive turbine components in a wind farm or managing the precise movement of equipment in an offshore drilling operation, the safety and functionality of lifting devices are paramount. We specialize in inspecting and servicing equipment in high-risk environments, ensuring that your operations remain compliant with stringent industry standards. Our work minimizes the risk of costly disruptions and enhances the safety of your workforce in these demanding settings.

Utilities – Water, Power

Utility companies responsible for water and power management use lifting equipment for various applications, from maintaining electrical grids to managing water treatment facilities. The reliability of this equipment is crucial for the uninterrupted supply of essential services to communities. We inspect and service lifting devices used in these environments, ensuring they operate safely and efficiently under continuous use. By maintaining your equipment in top condition, we help prevent outages, ensure regulatory compliance, and support the ongoing delivery of vital public services.

Waste Management

The waste management industry utilises a wide range of lifting equipment to handle everything from waste containers to compactors and large-scale sorting machinery. Safety is a top priority, as the equipment often operates in harsh and demanding environments. Our inspection services ensure that all lifting gear is robust, safe, and fit for purpose, reducing the risk of accidents and mechanical failures. By maintaining your equipment, we help you meet environmental regulations, improve operational efficiency, and ensure the safety of your workforce in waste processing and disposal activities

Renewables

In the renewable energy sector, lifting equipment plays a vital role in the construction and maintenance of wind turbines, solar panels, and hydroelectric facilities. The precision and reliability of this equipment are critical for the successful installation and upkeep of renewable energy infrastructure. Our services ensure that all lifting devices used in these operations meet the highest safety standards, contributing to the safe and efficient growth of renewable energy projects. We support the industry's goals of sustainability and innovation by keeping your lifting equipment in peak condition, reducing the risk of delays and accidents.

Pharma

The pharmaceutical industry requires lifting equipment that meets strict hygiene and safety standards, particularly in manufacturing and research environments. Equipment like cleanroom cranes, sterile hoists, and precision handling devices must be regularly inspected to ensure they operate without contamination risks. We specialize in servicing and inspecting lifting equipment used in pharma settings, ensuring compliance with regulatory standards such as GMP (Good Manufacturing Practice). Our expertise helps maintain the integrity of your production processes, safeguarding product quality and ensuring the safety of both workers and consumers.

Manufacturing

Manufacturing industries, from automotive to aerospace, rely on a diverse range of lifting equipment to handle materials, assemble components, and manage logistics within production facilities. The efficiency and safety of this equipment are critical for maintaining production schedules and preventing workplace accidents. We provide comprehensive inspection and maintenance services to keep your lifting devices, such as overhead cranes, conveyors, and jacks, operating smoothly. Our support ensures that your manufacturing processes run efficiently, reducing the risk of costly downtime, and enhancing overall productivity.

Transport – Road and Sea

The transport industry, encompassing both road and sea logistics, uses lifting equipment to load, unload, and move goods efficiently and safely. From vehicle-mounted cranes used in trucking operations to shipboard lifting gear essential for maritime transport, this equipment must be regularly inspected to ensure it functions correctly. We offer specialised services to maintain and certify lifting equipment used in these sectors, helping to prevent accidents and ensure the safe handling of cargo. Our expertise supports the seamless flow of goods across global supply chains, ensuring that your transport operations remain safe, efficient, and compliant with international standards.

Our services are not limited to these industries. We have the expertise and flexibility to cater to a wide range of sectors and specialized needs. Whether you operate in aerospace, logistics, mining, or any other field that requires reliable lifting equipment, we are equipped to provide tailored inspection and maintenance services to ensure the safety and efficiency of your operations. Contact us to discuss how we can support your specific industry requirements.

Driving Innovations in the Lifting Industry

Our commitment to excellence drives us to continually innovate and enhance our inspection services. Here is how we are setting new standards in the industry:

QR Code Module

We have developed a new QR feature that allows any user with a smartphone (Android or Apple) to access the inspection data of an item by simply scanning the QR code. When scanned with an iOS or Android device, detailed information about the equipment is displayed, along with an option to download the inspection certificate. This innovative feature simplifies access to critical data, enhancing transparency and efficiency.

In-service App

Our In-service App, launched in May 2024, is designed to manage the inspection of lifting equipment seamlessly. Available for both iOS and Android, this app simplifies your equipment inspections and policy implementations like never before. With intuitive features and user-friendly interfaces, the app ensures that managing inspections is more efficient and less time-consuming. It is available for download on both the Apple App Store and Google Play Store.

CORE RFID

Our CORE RFID system ensures that all lifting equipment is checked and tracked accurately. Using RFID technology, we can efficiently manage and monitor equipment status, maintenance schedules, and inspection records. This system provides real-time updates and precise tracking, ensuring that all equipment is maintained in optimal condition and compliant with regulatory standards.

Online Certificates

Our online portal provides seamless access to all your inspection reports, certifications, and maintenance schedules. This digital tool ensures that you can easily manage and track the compliance and performance of your equipment from anywhere, at any time.

Skilled Expertise

Our team of highly trained LEEA certified engineers and technicians are constantly updated with the latest industry practices and standards. Our engineers inspect thousands of assets on a regular basis which has helped them in gaining unique expertise and knowledge of lifting equipment.

Their expertise allows us to deliver thorough and reliable inspections tailored to meet the unique needs of various industries.

Continuous Improvement

We are dedicated to continuous improvement, regularly seeking feedback from our clients, and incorporating their insights into our processes. This approach helps us to constantly refine our services and stay ahead of industry trends.

Customized Solutions

Understanding that every business has unique requirements, we offer customized inspection solutions that address specific operational challenges. Our flexible approach ensures that you receive the most effective and efficient services possible.

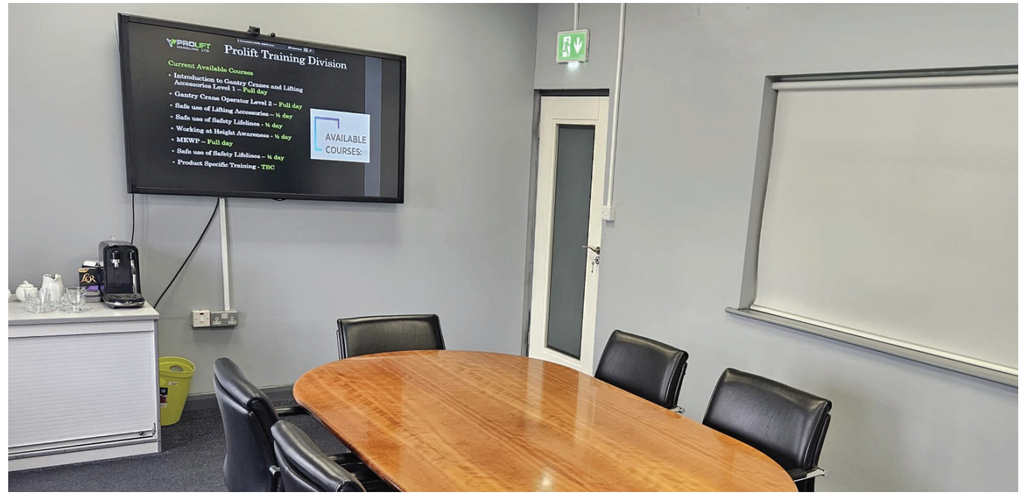
By leading innovation in the inspection industry through these advanced solutions, we are committed to providing you with the highest quality services, ensuring your equipment's safety, compliance, and operational efficiency.

Prolift Training Division

As Ireland's leading provider of lifting, material handling, and height safety equipment, Prolift is proud to offer comprehensive training and safety courses, all under one roof.

We don't just see training as an add-on; it's a core part of what we do. As part of the Pewag Group, the largest manufacturer of chains and chain components in Europe, we bring a manufacturer's perspective to our training, ensuring that essential safety guidelines are integrated into every course.

Our team of expert trainers, Darragh Hickey and Eddie McQuillan have over 60 years of combined experience, to deliver practical, hands-on training designed to meet the real-world challenges of safe lifting and material handling. We cover a wide range of topics, from introductory to advanced levels, ensuring that all participants, regardless of experience, gain valuable insights and skills.



Our courses include:

- Gantry Cranes & Lifting Accessories Introductory Level 1
- Gantry Cranes & Lifting Accessories Level 2
- Lifting Accessories Awareness Course
- Working at Height Safety Awareness
- Safe Use of MEWP
- Product Specific Training

Each course is meticulously designed to be relevant and applicable, with a focus on safety and efficiency. As ISO 19001 certified professionals and full members of LEEA, we uphold the highest standards in training, providing you with peace of mind that you are receiving the best education in the industry.

Explore our course syllabuses to see how our specialized training programs can enhance your team's safety and efficiency. With Prolift, you're learning from the industry's best, gaining the skills and knowledge needed to operate safely and effectively. Join us and elevate your operational standards with our expert-led training courses

Gantry Cranes & Lifting Accessories Level 1

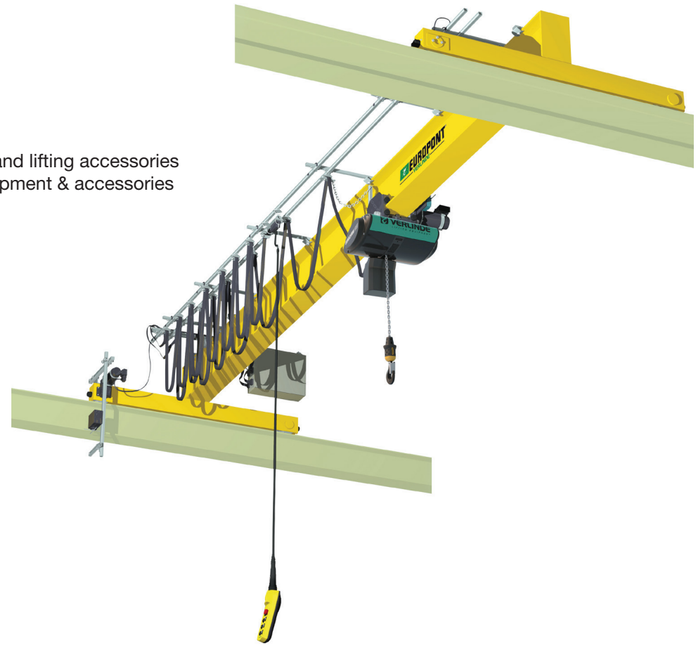
Training Course Outline

Course Duration
1 DAY

Training Objective
Ensure the safe use of Gantry Crane and lifting accessories including pre-use examination of equipment & accessories

Duration of Certificate
3 Years

Number of People
Maximum 8 per class



1. Legal		
• Health & Safety at Work Act • General Applications Regulations 2007	• Irish Law • PUWER • LOLER	**THEORY**
2. Definitions and Terminology		
• Responsible Person • Lifting Terms SWL & WLL • Operator		**THEORY**
3. Types of Lifting Equipment		
• Jib Cranes • Track Systems • Overhead Gantry Cranes		**THEORY**
4. Control Systems & Correct Use of Gantry Crane		
• Remote Control • Pendant Control	• Safe operation & Control of Gantry Crane	**THEORY**
5. General Safety Rules		**THEORY**
6. Planning Lift Operation		
• Planning & Supervising Lifting Operation • Risk Assessment • Lifting Equipment	• Site • Communications • Selection of Equipment • Crane Signals	**THEORY**

7. Identification of Parts & Components		**THEORY**
8.Choose The Right Sling		
• Wire Ropes • Chain Slings • Webbing Slings • Round Slings		**THEORY**
9. Pre-use Examination		
• Round Slings • Webbing Slings • Wire Rope Slings • Chain Sling • Eyebolts	• Shackles • Chain Blocks • Lever Hoist • Plate Clamps • Gantry Crane	**THEORY**
10. Question Paper		**TEST**
11. Practical Skill Demonstration		
• Plan the Lift • Pre-Use Examination • Functionally check • Assessment of Area • Assessment of Load • Correct Selection of Lifting accessories • Slinging the load and traveling • Each person will have to complete a lifting task • Participants encouraged do speak up about any concerns		**PRACTICAL**

Gantry Cranes & Lifting Accessories Level 2

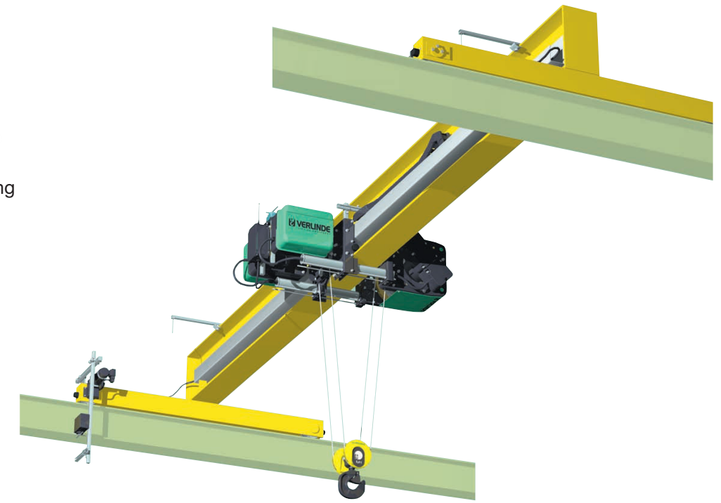
Training Course Outline

Course Duration
1 DAY

Training Objective
- Advanced Training and Safe use of Overhead Gantry Cranes
- Selection and Inspection of Lifting Accessories
- Advanced on the Job Risk Assessment Training For the Operator

Duration of Certificate
3 Years

Number of People
Maximum 8 per class



1. Legal		
• Health & Safety at Work Act • General Applications Regulations 2007	• Irish Law • PUWER • LOLER	**THEORY**
2. Definitions and Terminology		
• Responsible Person • Lifting Terms SWL & WLL • Operator		**THEORY**
3. Types of Lifting Equipment		
• Jib Cranes • Track Systems • Overhead Gantry Cranes		**THEORY**
4. Control Systems & Correct Use of Gantry Crane		
• Remote Control • Pendant Control • Safe operation & Control of Gantry Crane • Safe operation & Control of Dual Gantry Cranes		**THEORY**
5. General Safety Rules		**THEORY**
6. Planning Lift Operation		
• Planning & Supervising Lifting Operation • Risk Assessment • Load Assessment & Balance	• Lifting Equipment • Site • Communications • Selection of Equipment • Crane Signals	**THEORY**

7. Identification of Parts & Components		**THEORY**
8.Choose The Right Sling		
• Wire Ropes • Chain Slings • Webbing Slings • Round Slings		**THEORY**
9. Horizontal Force		
• And Its effect on Slinging Solutions		**THEORY**
10. Pre-use Examination		
• Round Slings • Webbing Slings • Wire Rope Slings • Chain Sling • Eyebolts	• Shackles • Chain Blocks • Lever Hoist • Plate Clamps • Gantry Crane	**THEORY**
11. Question Paper		**TEST**
12. Advanced Practical Skill Demonstration		
• Plan the Lift • Pre-Use Examination • Functionally check • Assessment of Area • Assessment of Load • Correct Selection of Lifting accessories • Slinging the load and traveling • Each person will have to complete a lifting task • Participants encouraged do speak up about any concerns		**PRACTICAL**

Lifting Accessories Awareness

Training Course Outline

Course Duration
1 DAY

Training Objective
Provide essential knowledge on the safe selection, use, and inspection of lifting accessories. Course also aims to ensure safe and efficient lifting operations, minimizing the risk of accidents.

Duration of Certificate
2 Years

Number of People
Maximum 8 per class

Demonstrate a knowledge of the legislation, regulations and standards governing the use of lifting equipment		TRAINING METHOD*
1. Legal		
• Health & Safety at Work Act • Irish Law	• PUWER • LOLER	THEORY
2. Types of Lifting Equipment		
• Lifting Operation • Lifting Equipment • Lifting Accessories • Lifting Machine • Thorough Examination • In Service Inspection/ Pre-use Check	• Responsible Person • Working Load Limit (WLL) • Safe Working Load (SWL) • Factor of Safety • Mode Factor	THEORY
3. Requirements for a Pre-use Check		THEORY
Demonstrate how to do Load Estimation		
1. Calculate the forces in slings		THEORY & PRACTICAL
2. Uniform Load Method		
• How it is calculated (mode Factors) • Identification	• Use (All new slings)	
3. Trigonometric Load Method		
• Old Equipment • Special Purpose Slings	• Identification	
Demonstrate how to do Load Estimation		
4.Calculating Load Weight(s)		
• Importance	• Cubes & Cylinders	THEORY & PRACTICAL

*Method of training is by either a Theoretical exam (T) or Practical (P) assessment

Part B: Demonstrate a knowledge of different types of slings and how to carry out a Pre-use check		TRAINING METHOD*
1. Textile Materials & Slings		
• Different Materials • Effects of Acids & Alkalis • Colour Code (Label & Material)	• Different Sling Types • Pre-use Check (Faults)	THEORY
2. Sling Configurations		
• Straight Pull • Choke Hitch • Basket Hitch(s)	• Single & Double Wrap • Back Hooking • Pocket Guides	THEORY
3. Advantages / Disadvantages		THEORY
Demonstrate a knowledge of different types of lifting accessories and how to carry out a Pre-use check		
1. Shackles		
• Dee & Bow • Uses	• Pre-use Check	THEORY
2. Eyebolts		
• Dynamo/Collared/ Eyebolt with Link • Uses & Restrictions	• Pre-use Check • Swivel Lifting Eyes	THEORY
3. Shortening Clutches		
• Types	• Uses	THEORY
4. Hooks		
• Types (Latch/Safety/ Swivel)	• Pre-use Check	THEORY
5. Rigging Screws		
• Types • Uses (Inline Only)	• Pre-use Check	THEORY
6. Wire Rope Grips		
• Types • Uses	• Correct Fitment • Pre-use Checks	THEORY

Working at Height Safety Awareness

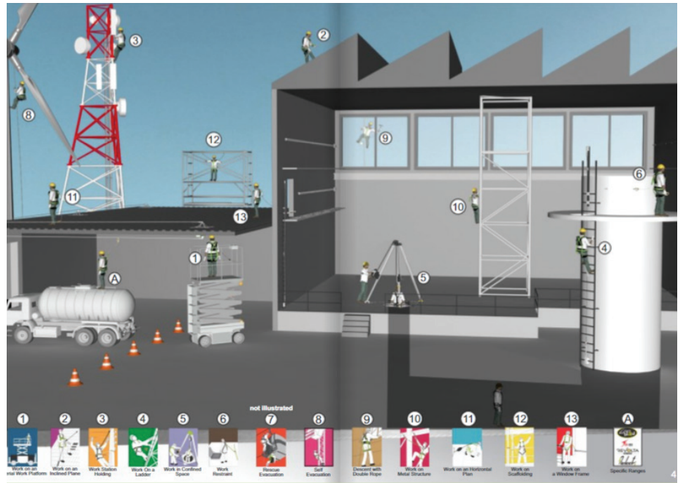
Training Course Outline

Course Duration
½ DAY

Training Objective
- Safe use of harness and lanyards.
- Understand the risks involved in working at height.
- Assess hazards and implement safe measures.

Duration of Certificate
3 Years

Number of People
Maximum 8 per class



1. Legal	
• Health & Safety at Work Act • Irish Law • General applications Part 4 • S.I No. 318/2006	THEORY
2. Definitions and Terminology	
• Competent Person • WAH Definition • Hierarchy of Planning Working at Height • Collective/Personal Protection	THEORY
3. Overview of Working at Height	
• Weather Conditions • Competence • Falling From Height • Falling Objects • Fragile Surfaces • Unsafe Equipment or safety measures • Avoidance, only when absolutely necessary	THEORY
4. Control Measures	
• Planning • Supervision • Proper Access Equipment and PPE • Rescue	THEORY
5.Emergency Lowering and Rescue Plans	THEORY
6. General Safety Rules	
• Always plan and supervise well. Only perform tasks when necessary, and conduct a pre-use inspection of the correct PPE for the task.	

7. Areas Covered	
• Ladders • MEWP • Scaffolding • Roof Protection • Harness fitting and inspection • Harness types • Lanyard and anchor points. • Fall arrest and fall restraint systems	THEORY
8. Planning Operation	
• Planning & Supervision • Risk Assessment • Equipment inspection • Site conditions. • Communications • Selection of Equipment	THEORY
9. Identification Parts & Components	
• And Its effect on Slinging Solutions	THEORY
10. Pre-use Examination	
• It is the responsibility of the person who is to work at height to inspect Harness, lanyard, fall arrest or inertia reel systems, steps ,ladders and MEWP. • Scaffolding and work towers must never be used unless certified by a qualified scaffolder.	
11. Question Paper	TEST
12. Practical Skill Demonstration	
• Correct fitting of Harness • Detailed inspection of harness and attachment	PRACTICAL

Safe Use of MEWP
(Mobile Elevated Work Platform)

Training Course Outline

Course Duration
1 DAY

Training Objective
- Ensure the safe use of Mobile Elevated Work Platform; and
- Correct use and inspection of safety harness and lanyard

Duration of Certificate
2 Years

Number of People
Maximum 8 per class

1. Legal		
• Health & Safety at Work Act • General Applications Part 4	• Irish Law • PUWER • LOLER	**THEORY**
2. Definitions and Terminology		
• Responsible Person • MEWP	• Operator • Spotter	**THEORY**
3. Types of Lifting Equipment - Overview of MEWP types		
• Scissors • Fixed Boom	• Articulated • Spider	**THEORY**
4. Control Systems		
• Basket • Ground	• Rescue	**THEORY**
5. Safety Harness and Lanyard Awareness		
• Pre-use Inspection	• Correct Fitting	**THEORY**
6. General Safety Rules		
• Safe use, identifying hazards and control measures		**THEORY**
7. Planning Operation		
• Planning & Supervising • Risk Assessment • Equipment inspection • Site conditions • Communications	• Selection of Equipment • Emergency Lowering and Rescue Plans • The Role of Spotter and Training • Terrain and associated hazards	**THEORY**

8. Identification of Parts & Components	**THEORY**
9. Choose The Right MEWP • Reach • Height • Ground and weather conditions • Access	**THEORY**
10. Pre-Use Examination • GA1 cert present • Operators manual present • Safety Decals are legible • Safety devices in place • Tyres in good condition • Functionality test • Structural Defects	**THEORY**
11. Question Paper	**TEST**
12. Practical Skill Demonstration • Plan the task • Pre-Use Examination • Functionality check • Assessment of Area • Harness inspection and fitting. • Assessment of raising/lowering and traveling • Each person will complete a task • Participants encouraged do speak up about any concerns	**PRACTICAL**

Product Specific Training

We recognize that each business has distinct operational needs and safety challenges, especially when handling specialized lifting and material handling equipment.

Our Product Specific Training course is designed to provide customised, comprehensive training tailored to your specific equipment and safety requirements. This course goes beyond generic training programs by focusing on the unique features and operational nuances of the equipment you use. Whether you're implementing new machinery, specialized tools, or complex systems, our training ensures your team is well-prepared to operate safely and efficiently.

Customized Training Modules

Unlike our standard courses, the Product Specific Training does not follow a pre-defined syllabus. Instead, the training modules are developed in consultation with you, the customer, to address the specific needs and operational contexts of your business. Our expert trainers will work closely with your team to identify key areas of focus, which may include:

- Equipment Familiarization: In-depth introduction to the specific equipment, including its capabilities, limitations, and unique features.
- Safety Protocols: Customized safety procedures tailored to the equipment and the operational environment, including emergency procedures and safe work practices.
- Operational Techniques: Hands-on training on the correct operation of the equipment, including start-up, shutdown, and normal operational procedures.
- Maintenance and Troubleshooting: Training on regular maintenance routines and troubleshooting techniques to ensure the equipment remains in optimal condition.
- Compliance and Regulations: Guidance on relevant industry regulations and compliance requirements specific to the equipment and operations.

Examples of Product Specific Training:

Our Product Specific Training can be customized for a wide range of equipment and scenarios, including but not limited to:

Use of Powered Pallet Trucks:
Training on safe operation, handling techniques, and maintenance of powered pallet trucks, ensuring efficient and safe material movement.

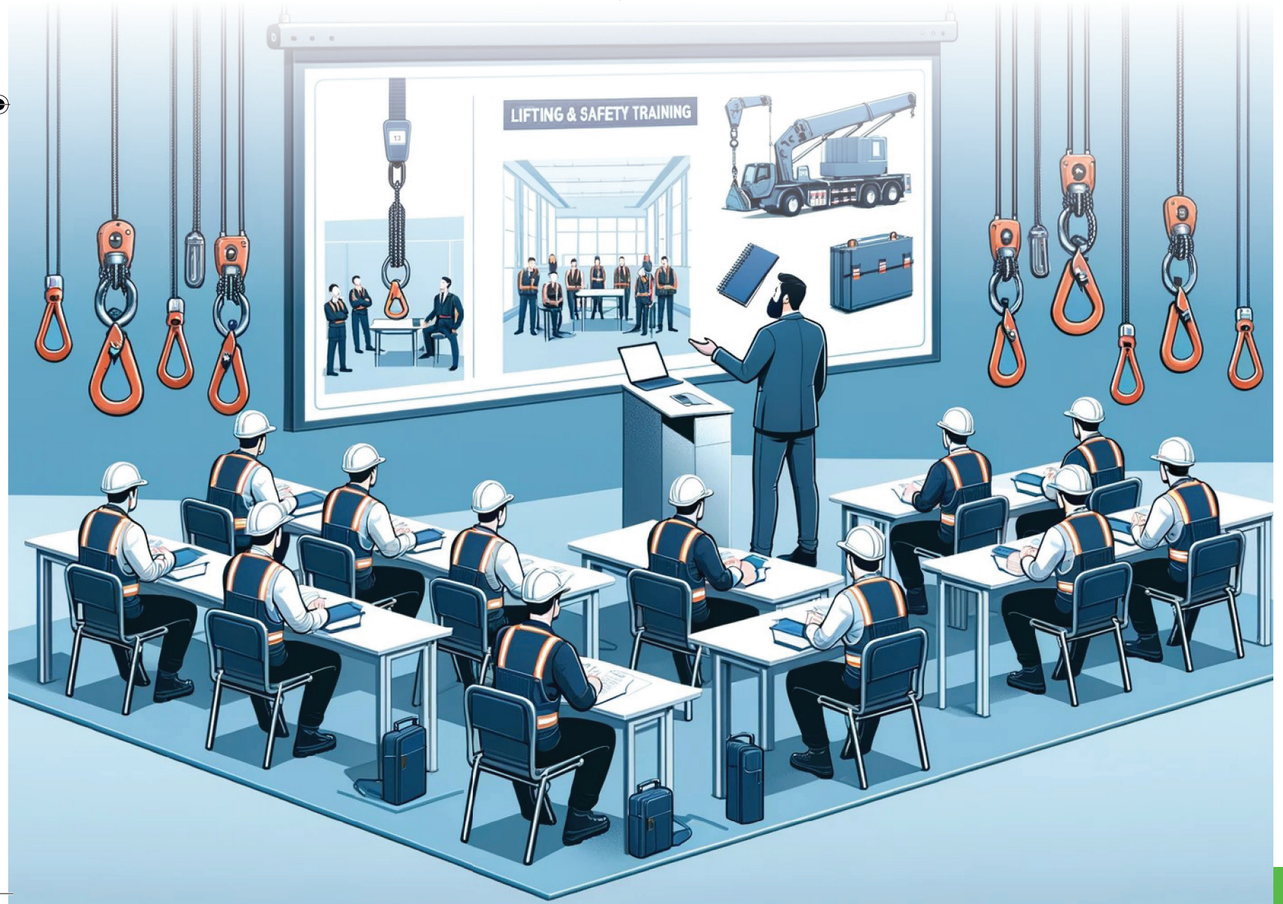
Safe Use of Ladders:
Focused training on selecting the right type of ladder, proper setup, and safe usage practices to prevent falls and injuries.

Using Lift Tables:
Comprehensive guidance on the operation, safety protocols, and maintenance of lift tables, including load handling and ergonomic considerations.

How to Customize Your Training

To develop the most effective Product Specific Training program, we start with a comprehensive consultation with your team. During this consultation, we assess your equipment, operational processes, and specific training needs. This information allows us to design a curriculum that addresses your unique challenges and goals.

Whether you need training on new technology, advanced lifting techniques, or compliance with updated regulations, our customized approach ensures that the training is directly relevant to your operational context. This bespoke training solution empowers your workforce with the confidence and skills needed to handle equipment safely and efficiently.



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