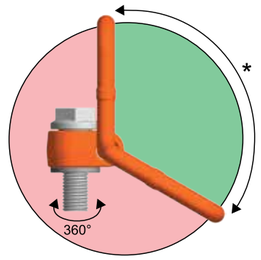
2

PROLIFT
HANDLING LTD

Lifting Accessories

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

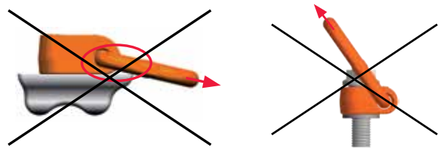
pewag PLAW Alpha



- 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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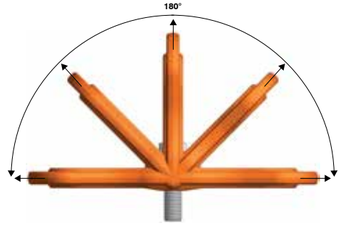
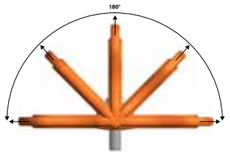
pewag PLBW Beta



- 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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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

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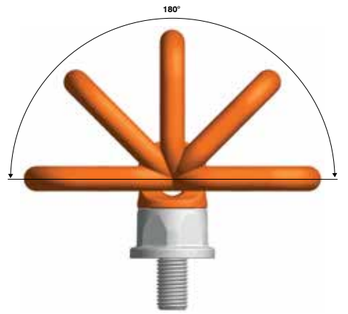
pewag PLDW Delta



- 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

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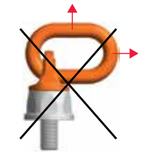

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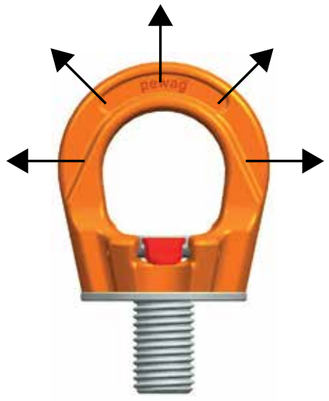
pewag PLGW Gamma

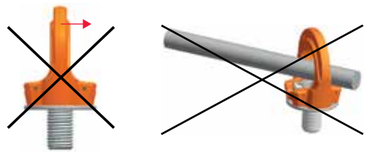


- Fully rotatable 360° even under maximum load
- No tools or torque value required
- Patented latch reduces both installation time and labor
- Eyebolt is rotatable by 360° when unlocked
- Interchangeable grade 10.9 bolt is corrosion protected and 100% crack-tested
- Traceable with serial number
- Available 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

Displayed usage permitted



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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

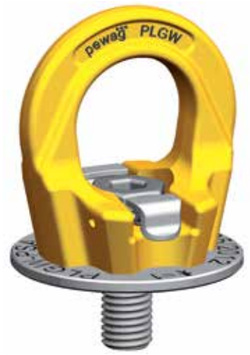
- Stainless version - available special order, size M12, M16, and M20
- Lifting point must be mounted hand tight using a standard Allen key (available as basic version only) then aligned in the load direction
- Eyebolt is 360° rotatable
- Temperature range: up to 536°F (280°C)
- Special screw that is 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	○	✓	○	○	✓	○

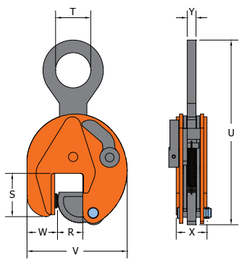
 RGS eyebolt	 PLGWI Gamma inox	 AWHW weld-on hook	 PLEW eta	 PLE/N eta	 PLGW-PSA fall protection	 PLGWI-PSA fall protection
○	✓	○	✓	○	✓	✓
○	✓	✓	○	○	✓	✓
○	○	○	○	○	✓	✓
✓	✓	○	○	○	✓	✓
○	○	○	○	○	○	○
○	✓	○	✓	○	✓	✓
○	✓	○	✓	○	✓	✓
✓	✓	✓	✓	✓	✓	✓
○	○	✓	✓	✓	✓	✓
○	○	✓	○	○	✓	✓
○	✓	○	○	○	✓	✓
✓	✓	✓	✓	✓	○	○
○	○	○	○	○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

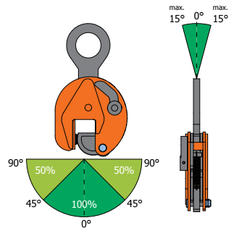
pewag Comparison between pewag lifting points / Icons

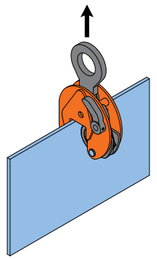
Icon		 PLAW alpha	 PLBW beta	 PLGW gamma	 PLDW delta	 PLZW zeta	 AOR lashing point
NM	Torque marking	✓	✓	✓	✓	✓	○
coloring	Special colours available upon request	✓	✓	✓	✓	✓	○
3D	3D CAD Drawings available	✓	✓	✓	✓	✓	✓
INOX	Products made from stainless steel / rust resistant	○	○	○	○	○	○
PPE	Personal protection 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







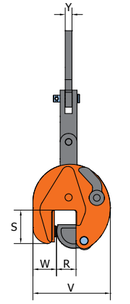
VCW/VCEW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
VCW 0.75 t	750	0-13	47	30	202	100	37	37	10	1.70
VCEW 1 t	1,000	0-25	56	45	263	141	37	47	15	3.50
VCEW 2 t	2,000	0-35	78	64	336	183	56	56	16	7.00
VCEW 3 t	3,000	0-35	78	64	336	183	56	56	16	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

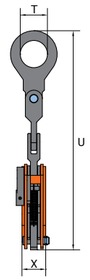
SVCW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
SVCW 6 t	6,000	40-90	114	75	486	275	70	78	20	21.00
SVCW 7.5 t	7,500	50-100	111	75	524	312	70	86	20	26.50
SVCW 9 t	9,000	50-100	111	75	522	312	70	86	20	27.50
SVCW 12 t	12,000	50-100	152	85	615	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

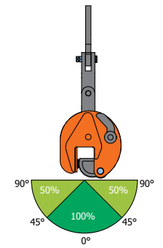
pewag peCLAMP VMPW/VEMPW/SVMPW

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

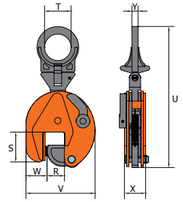
SVMPW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
SVMPW 6 t	6,000	40-90	114	75	756	275	70	78	20	26.00
SVMPW 7.5 t	7,500	50-100	111	75	695	312	70	86	20	31.50
SVMPW 9 t	9,000	50-100	111	75	792	312	70	86	20	32.50

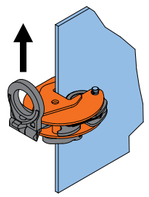


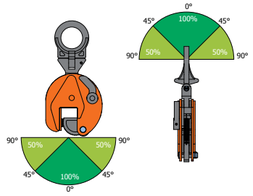




pewag peCLAMP VUW/VEUW/SVUW





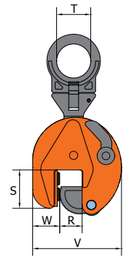


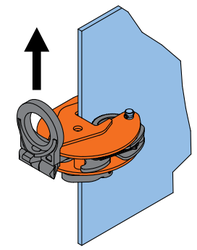
VUW/VEUW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
VUW 0.75 t	750	0-13	47	30	203	100	37	37	10	1.80
VEUW 1 t	1,000	0-25	56	50	292	141	37	47	15	3.80
VEUW 2 t	2,000	0-35	78	70	372	183	56	56	16	8.00
VEUW 3 t	3,000	0-35	78	70	372	183	56	56	16	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

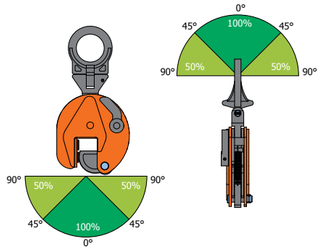
SVUW										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
SVUW 6 t	6,000	40-90	114	78	523	275	70	78	32	24.00
SVUW 7.5 t	7,500	50-100	111	78	560	312	70	86	32	30.00
SVUW 9 t	9,000	50-100	111	78	560	312	70	86	32	31.00
SVUW 12 t	12,000	50-100	152	85	644	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

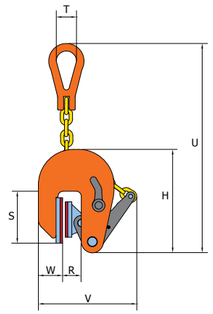


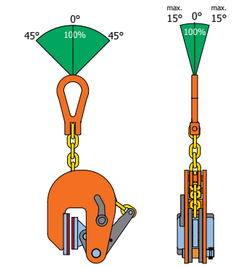




pewag peCLAMP VNMW/VSNMW

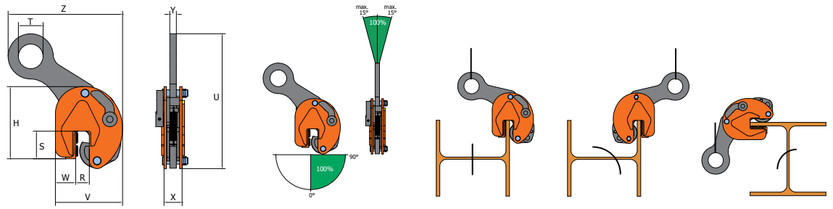
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
VNMW 0.5 t	500	1-20	205	102	40	462	224	48	80	14	6.00
VSNMW 0.5 t	500	17-37	205	102	40	462	241	48	80	14	6.00
VNMW 1 t	1,000	1-30	232	105	40	470	282	46	80	14	6.50
VNMW 1.5 t	1,500	1-40	232	105	40	470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





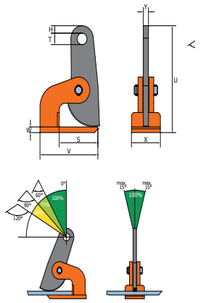
pewag peCLAMP BKW

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

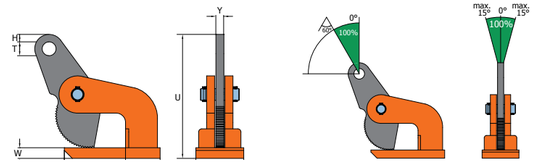
HXW											
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
HXW 1 t	1,000	0-35	11.50	99	25	188	140	10	65	15	2.60
HXW 2 t	2,000	0-60	19.50	118	30.50	287	180	15	90	16	7.00
HXW 3 t	3,000	0-60	19.50	118	30.50	291	180	20	90	16	8.00
HXW 4 t	4,000	0-60	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

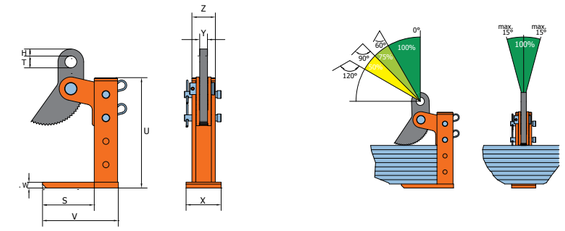
pewag peCLAMP DHW

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



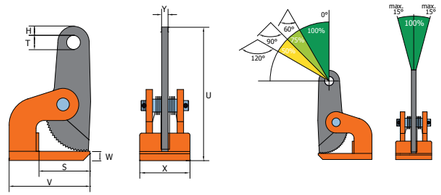
pewag peCLAMP HSKW

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



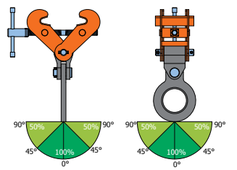
pewag HXW-V

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

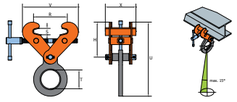


pewag SVW/SVSW/SVSUW

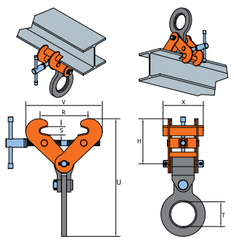
SVW									
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	X [mm]	weight [kg/pc.]
SVW 1 t	1,000	75-190	113-192	30	73.50	345	357	120	5.00
SVW 2 t	2,000	75-190	113-192	30	73.50	345	357	120	5.00
SVW 3 t	3,000	75-190	113-192	30	73.50	345	357	120	5.00
SVW 4 t	4,000	150-300	185-240	40	80	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



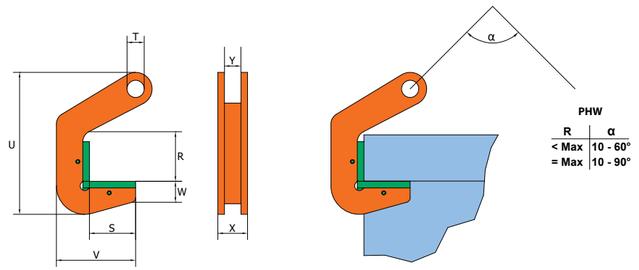
SVSUW									
Code / Type	WLL [kg]	JO R [mm]	H [mm]	S [mm]	T [mm]	U [mm]	V [mm]	X [mm]	weight [kg/pc.]
SVSUW 3 t	3,000	75-420	114-275	30	73.50	486	540	120	8.00
SVSUW 4 t	4,000	150-560	173-362	40	80	613	708	180	21.00
SVSUW 5 t	5,000	150-560	173-362	40	80	622	708	180	22.00

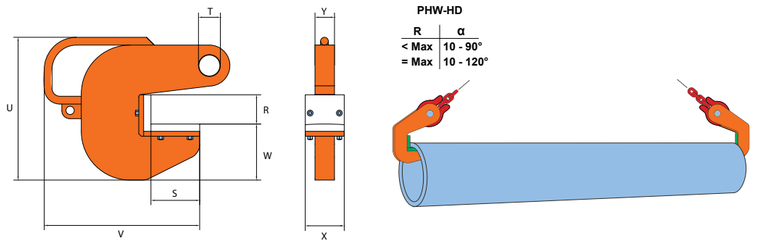


pewag peCLAMP PHW

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

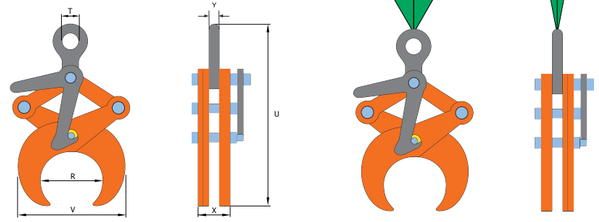
PHW-HD										
Code / Type	WLL [kg]	JO R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	X [mm]	Y [mm]	weight [kg/pc.]
PHW-HD 5 t	5.000	60	100	26	232	309	85	80	20	6,70
PHW-HD 10 t	10.000	60	100	36	236	319	85	80	30	9,70
PHW-HD 20 t	20.000	60	100	51	285	362	105	80	35	14,00
PHW-HD 30 t	30.000	60	100	58	310	387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





pewag peCLAMP TLW

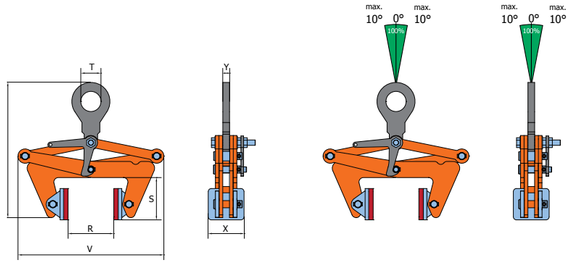
Code / Type	WLL [kg]	JO R [mm]	H [mm]	U min-max [mm]	V min-max [mm]	X [mm]	Y [mm]	weight [kg/pc.]
TLW 0.5 t	500	48,3-114,3	45	300-400	146-207	47	15	4.50
TLW 1 t	1,000	114,3-219,1	47	430-615	225-320	47	15	9.00
TLW 2 t	2,000	219,1-368,0	64	670-955	490-610	56	16	31.00
TLW 3 t	3,000	368,0-508,0	64	875-1165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

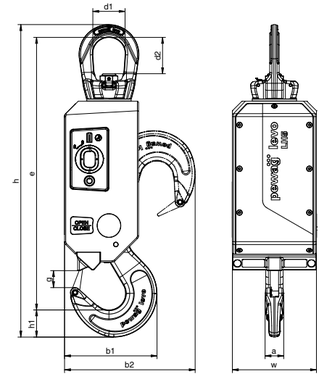
Safety meets performance.

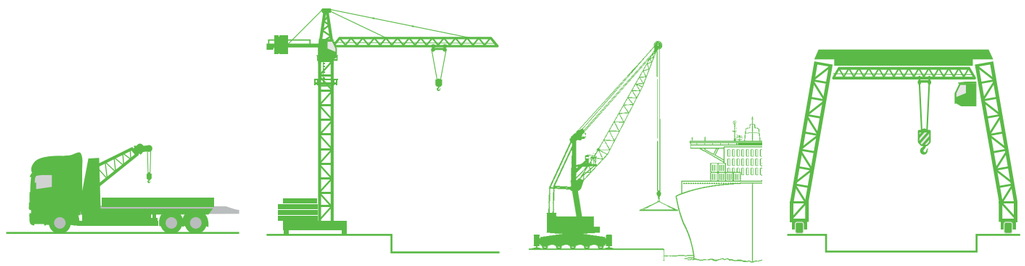
Automated unloading with the pewag levo hook LH eliminates time-intensive manual workflows, which can be performed faster and with optimised use of resources. In addition, the pewag levo hook LH stands for the highest level of health and safety as well as user protection.

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

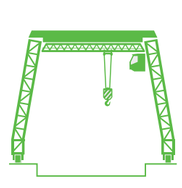
Spotlight on safety.

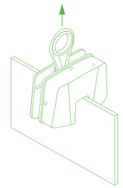
Automation and user safety play an increasingly important role in today‘s work market. Processes such as the lifting of steel plates and steel constructions are a potential hazard for persons and material.

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.

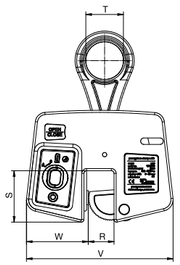
The pewag levo clamp LC

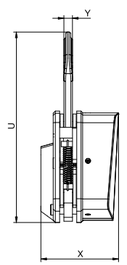
- provides support when working at heights or in areas that are difficult to access.
- withstands temperatures that put a strain on the user (-20°C to 60°C).
- enables the targeted use of personnel resources. (crane of lifting equipment operator may lift and release load independently)
- is suitable 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.

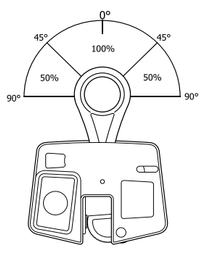


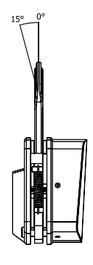


Code	WLL [kg]	Jaw-width R [mm]	T [mm]	S [mm]	W [mm]	V [mm]	U [mm]	Y [mm]	X [mm]	Weight approx. [kg/pc.]
LC 3	3,000	0-35	70	96	115	273	356	16	145	19.00









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.

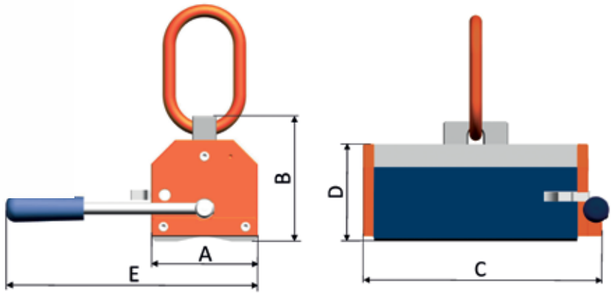
Suitable for flat and round material and as well for temperature ranges from -10°C to +80°C at 80% maximum humidity.

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.



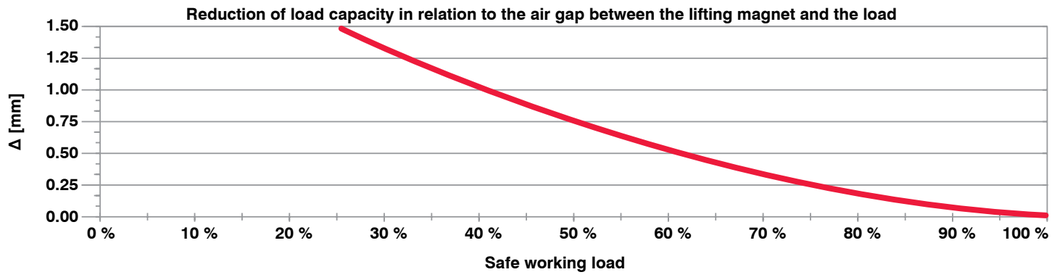
Type	A [mm/in]	B [mm/in]	C [mm/in]	D [mm/in]	E [mm/in]	Master link	Weight [kg/lbs]
PMA 150	85.00 / 3.35	110.00 / 4.33	155.00 / 6.10	85.00 / 3.35	190.00 / 7.48	AW 13: 13x110x60	7.00 / 15.43
PMA 300	85.00 / 3.35	110.00 / 4.33	195.00 / 7.68	85.00 / 3.35	190.00 / 7.48	AW 13: 13x110x60	9.00 / 19.84
PMA 500	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

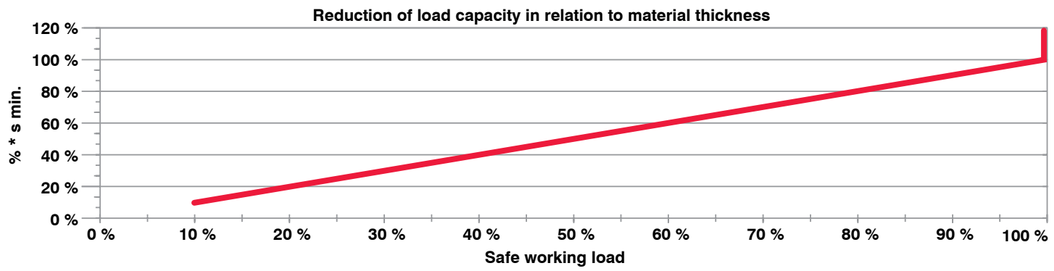
	Flat surface			Round surface	
Type	WLL [kg/lbs]	Min. material thickness [mm/in]	Max. length L [mm/in]	WLL [kg/lbs]	Max. material diameter [mm/in]
PMA 150	150 / 330	20.00 / 0.79	2.000 / 78.74	75 / 150	150.00 / 5.91
PMA 300	300 / 700	20.00 / 0.79	2.500 / 98.43	150 / 350	150.00 / 5.91
PMA 500	500 / 1.100	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.

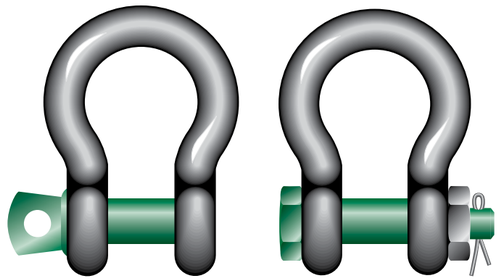
Range

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:

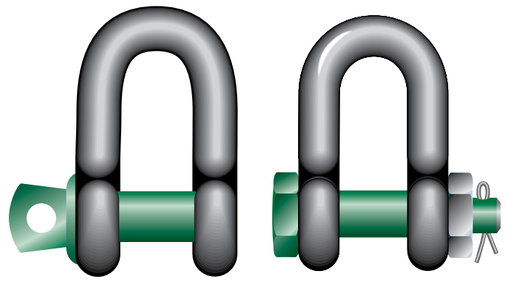
- **Working Load Limit**
  - e.g. WLL 25 T
- **manufacturer's symbol**
  - e.g. GP
- **traceability code**
  - e.g. HA indicating a particular batch
- **steel grade**
  - e.g. 4, 6, 8
- **CE conformity code** (Conformité Européenne)
  - CE

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.

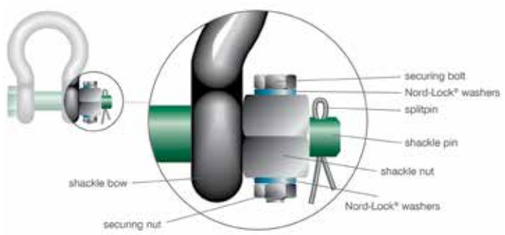
The shackles have a Product Design Assessment Approval and a Manufacturer Assessment Approval Certificate. The shackles are type approved to be used as lifting gear or to be used as lifting device.

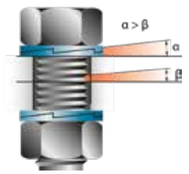
Fixed Nut Shackles

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

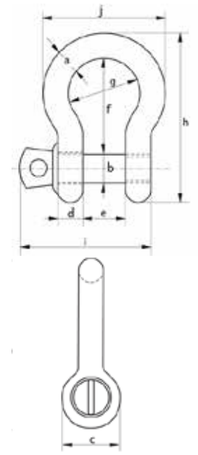




Nord-Lock®

Bow Shackle SC G-4161

Standard bow shackle with screw collar pin

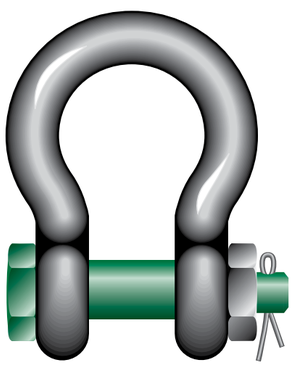


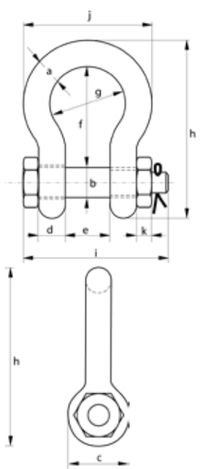
- **Material:**
  bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:**
  MBL equals 6 x WLL
- **Standard:**
  EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:**
  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





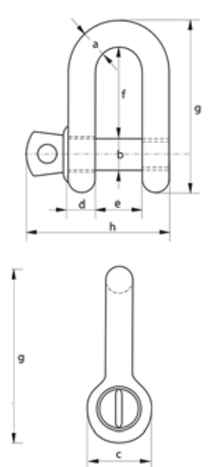
- **Material:**
  bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:**
  MBL equals 6 x WLL
- **Standard:**
  EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:**
  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

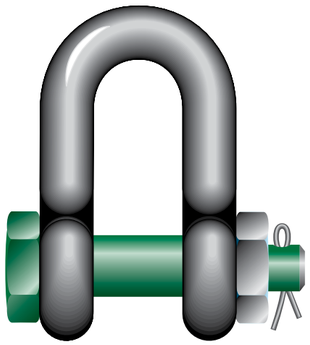


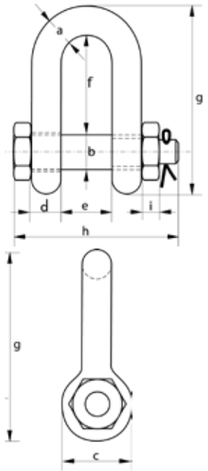
- **Material:**
  bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:**
  MBL equals 6 x WLL
- **Standard:**
  EN13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, grade A, from 2 t upward these shackles comply with ASME B30.26
- **Finish:**
  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

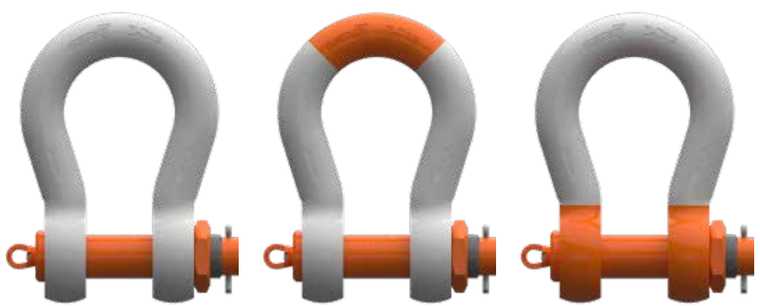
Zero-waste forging process: eyes are upset forged

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

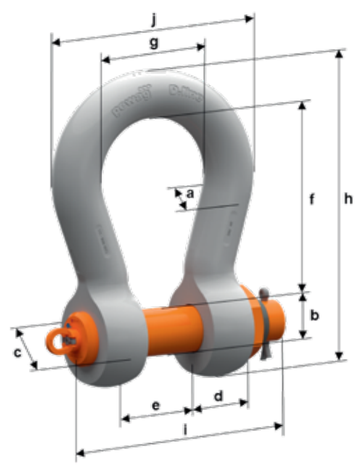
pewag D.line markings

- 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