



 **PROLIFT**
HANDLING LTD

Pallet Trucks and Stackers

- Manual Pallet Trucks
- Electric Pallet Trucks
- Electric Stackers

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.

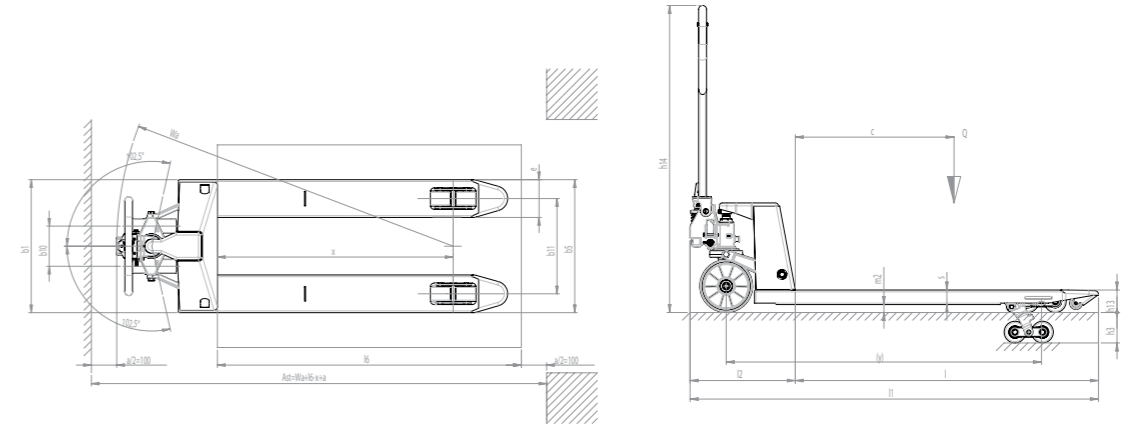
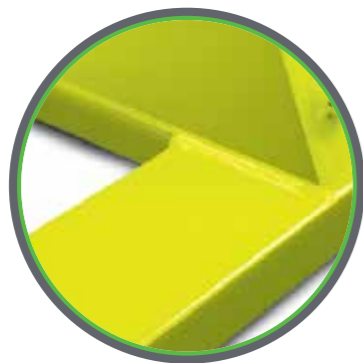


Available accessories:

- Tandem rollers
- Polyurethane rollers (as a standard on Premium)
- Rubber guide wheels
- Manual control brake

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.



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	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	82x82-60	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	m²	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	Turning 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

FRAMAC 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 galvanized 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



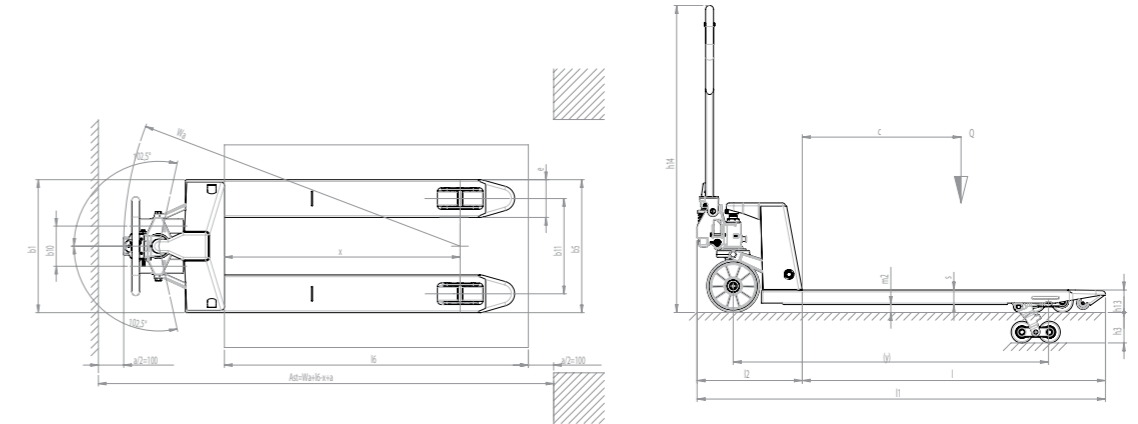
Hydraulic Pump Made of Brass

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					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
1.2	Model								
1.3	Drive			MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
1.4	Operator Type			PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN
1.5	Load Capacity	Q	kg	2500	2500	2500	2500	2500	2500
1.6	Load Centre Distance	c	mm	600	600	600	600	400	400
1.8	Load Distance, Centre of Drive Axle to Fork	x	mm	932	932	932	932	582	582
1.9	Wheel Base	y	mm	1192	1192	1192	1192	842	842
Weights									
2.1	Service Weight		kg	61-63	62-64	67-69	66-68	52-54	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	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	35/17-19
Tyres/Chassis									
3.1	Tyres			N/N	NE/NE	NE/NE	N/N	N/N	N/N
3.2	Tyre Size, Front (Ø X Width)			200x50	200x50	200x50	200x50	200x50	200x50
3.3	Tyre Size, Rear (Ø X Width)			82x82-60	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	2/2-2/4
3.6	Tread, Front	b10	mm	155	155	155	155	155	155
3.7	Tread, Rear	b11	mm	375	375	375	535	250	250
Dimensions									
4.4	Lift	h3	mm	115	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	690/1160
4.15	Height, Lowered	h13	mm	85	85	85	85	85	85
4.19	Overall Length	l1	mm	1550	1550	1550	1550	1200	1200
4.20	Length to Face of Forks	l2	mm	400	400	400	400	400	400
4.21	Overall Width	b1	mm	525	525	525	685	400	400
4.22	Fork Dimensions	s/e/l	mm	55/150/1150	55/150/1150	55/150/1150	55/150/1150	55/150/800	55/150/800
4.25	Distance Between Fork Arms	b5	mm	525	525	525	685	400	400
4.32	Ground Clearance, Centre of Wheel Base	m²	mm	30	30	30	30	30	30
4.35	Turning Radius	Wa	mm	1367	1367	1367	1367	1017	1017
Performance Data									
5.2	Lift Speed, Laden/Unladen		strokes	13/13	13/13	13/13	13/13	13/13	13/13
Component Specifications									
	Hydraulic Unit			GALVANIZED	GALVANIZED	BRASS	GALVANIZED	GALVANIZED	GALVANIZED
	Frame			GALVANIZED	INOX	INOX	GALVANIZED	GALVANIZED	GALVANIZED
	Push Rods			GALVANIZED	GALVANIZED	INOX	GALVANIZED	GALVANIZED	GALVANIZED
	Rocker Arm			GALVANIZED	GALVANIZED	INOX	GALVANIZED	GALVANIZED	GALVANIZED
	Wheels			NYLON	NYLON EXTRA	NYLON EXTRA	NYLON	NYLON	NYLON
	Load Rollers			NYLON	NYLON EXTRA	NYLON EXTRA	NYLON	NYLON	NYLON
	Tiller			GALVANIZED	INOX	INOX	GALVANIZED	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

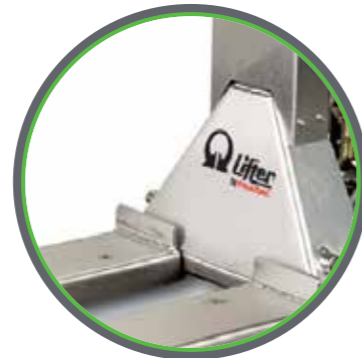
FRAMAC GS/P25 - PX20

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.



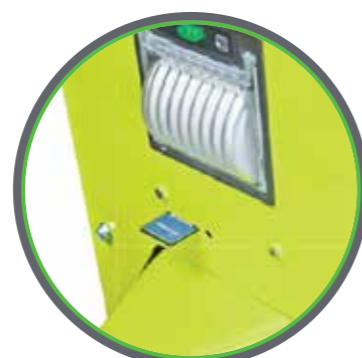
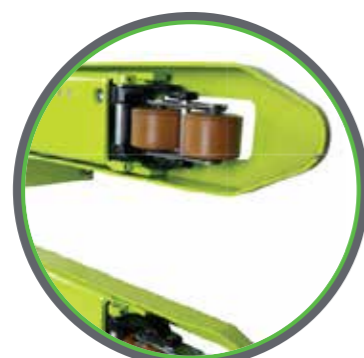
Display

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.

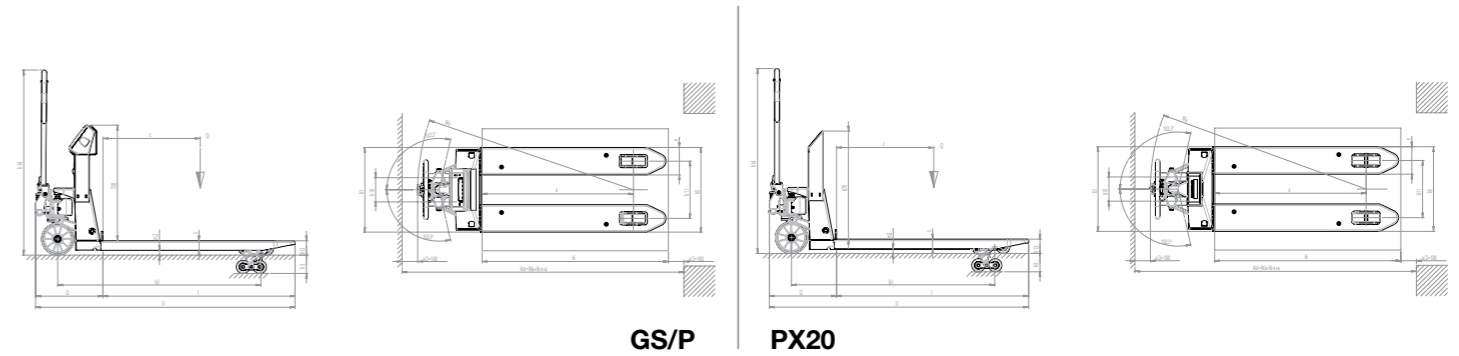


GS/P25 - Stainless Steel

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.



Description				GS/P	GS/P CE-M HOMOLOGATION	GS/P INOX	PX20
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			124	124	132	113
2.2	Axle Load Laden, Front/Rear			787/1837	787/1837	790/1842	633/1480
2.3	Axle Load Unladen, Front/Rear			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	m²	mm	30	30	30	30
4.34	Aisle Width for Pallets 800x1200 Lengthwise	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

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.



Battery and external battery charger. Also available in GEL version and with an integrated battery charger.



Control Lever

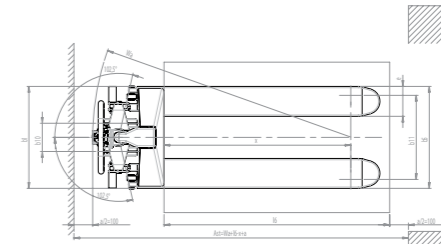
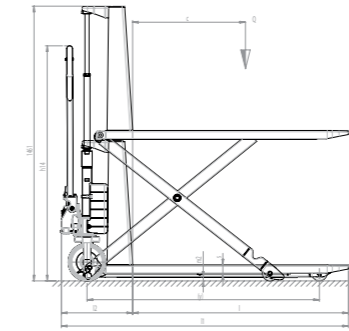
The hydraulic unit has been recently redesigned to allow for less effort at the steering wheel for all loads and a quick elevated function (30 cycles) for loads up to 150kg.

Auto Levelling System

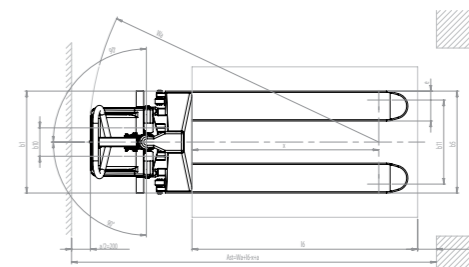
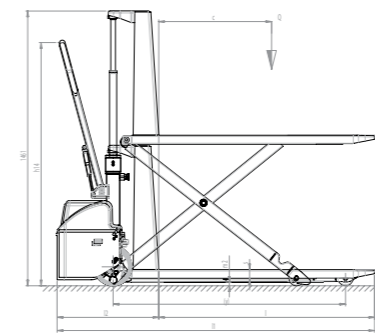
- Automatic system whose photocell adjusts the height of the forks, maintaining the work height set.
- An optical and acoustic signal is activated at every fork movement.
- Possibility of adjusting the photocell both in height and reading angle.
- Micro-limit switch, active both on the way up to prevent 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.



HX10M



HX10E

Description				HX10M 1150x540	HX10M 1150x680	HX10E 1150x540	HX10E 1150x680	HX10E 1500x540	HX10E 1800x540	HX10E 2000x540
1.2	Model			MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
1.3	Drive			PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	PEDESTRIAN
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	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.



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.



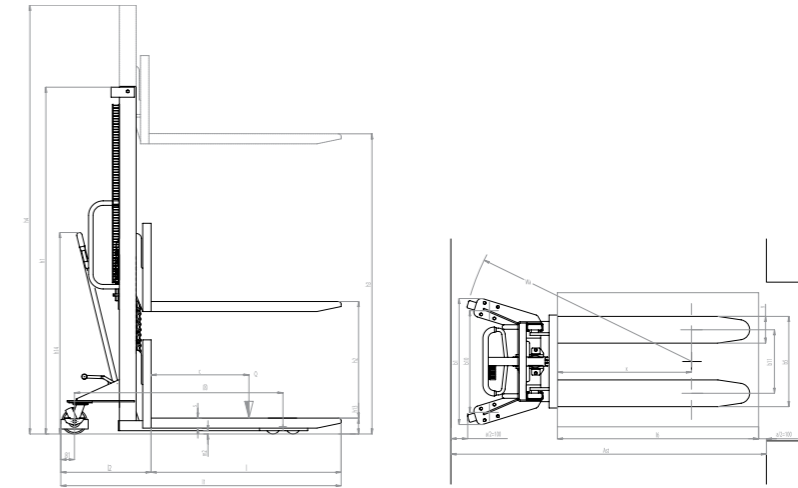
Foot Brake

The foot brake performs the parking brake function.



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			
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)	-	-	-

Electric Pallet Trucks

EP F4

1500kg Revolutionary Pallet Truck



- All rounder for diverse applications
- Reduce operator effort and increase efficiency
- Small size (l2=400mm) and reduced weight (120kg)
- 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 (160kg)
- 24V-30Ah removable Li-ion battery with metal protection cover
- Fast charging trough 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.

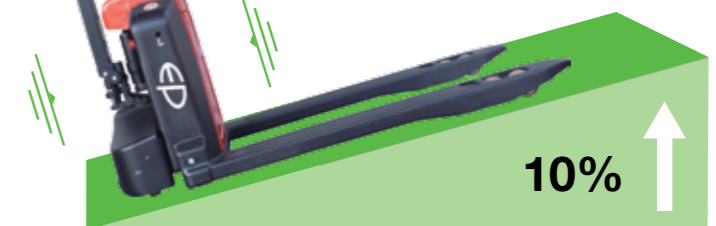
- **Rigorous design, stable operation**

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.



EP EPL185

1,800kg Electric Pallet Truck



- Industrial floating stabilizing wheels for maximum stability
- Small size (l2=400mm) and reduced weight (170kg)
- 48V-20Ah removable Li-ion battery with metal protection cover
- Fast charging trough 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.



• 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.



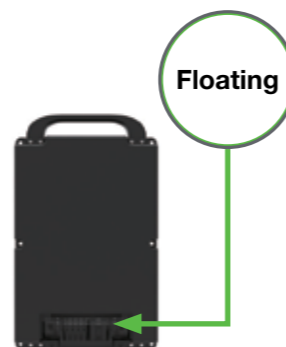
• New plug-in & out battery design

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.



• Rigorous design and convenient maintenance

Floating battery cartridge to protect battery contact pins.



EP Electric Stackers

- Electric Stackers with smallest working space needed
- Innovative design of low energy consumption and high reliability
- Long & aside tiller design makes operations safe and convenient

Features

Performance

- Robust structure
- Highly specialised drive and hydraulic system ensure 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



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



Maintenance

- Maintenance-free battery
- Battery display indicator with hour meter, remind operator of charging on time (optional)
- Easy maintenance - detachable rear panel
- Self-diagnostics signal on the digital display allows easy troubleshooting
- Easy access of handset
- Low-voltage cut-off protection



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 disconnecter, 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 ensures truck don't roll back on ramps

EP 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
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 1,000x1,200 crossways	Ast	mm	2,225	2,225	
4.34.2	Aisle width for pallets 800x1,200 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
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.

EP 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
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 1000x1200 crossways	Ast	mm	2,137	2,137	
4.34.2	Aisle width for pallets 800x1200 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
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.

EP 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 disconnecter 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 ergonomic 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 loosening 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.



EP ESi161

1,600kg Pedestrian Double-deck Stacker



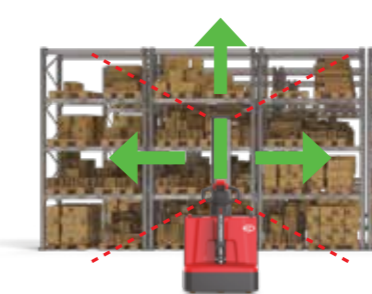
- Multipurpose mono mast Li-Ion battery stacker with initial lifting
- Double lifting allow to move 2 pallets at the time and easily drive on ramps and uneven floor
- Central driving with stabilizing wheels for better handling, traction and stability
- Turtle button to operate in narrow spaces
- Fast charging trough 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.



- **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.



- **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.



- **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.



EP 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 trough 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

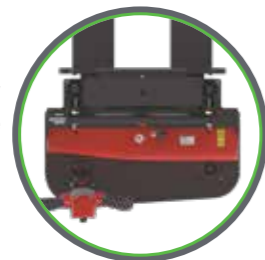
• Strong chassis

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.



EP WSA161

1,600kg Heavy-duty Stacker



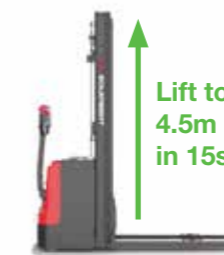
- Heavy duty stacker designed around Li-Ion battery
- High efficiency thanks to the fast lifting and lowering fork speed
- Great stacking precision with the proportional lifting and lowering fork control
- Compact design (l2 = 731mm) allow to work in very narrow aisles
- Powerful AC vertical traction motor
- Turtle button to operate in narrow spaces
- Fast charging trough 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

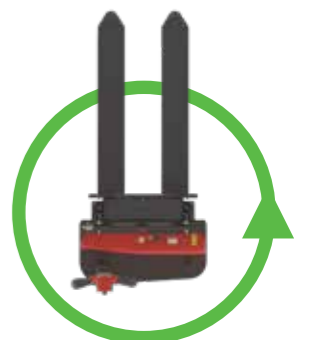
• Fast lifting and lowering speeds to maximize efficiency

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.



• 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

• 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.



• 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.