Technical sheet:

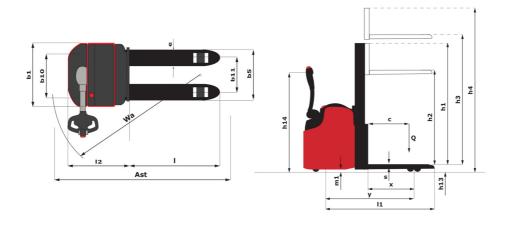
ES 616 LI (5PTS)





Method characteristics			ESGIGLI(SFIS) OIG	ated on August 12, 2020 at 1:27 1 W
1.2 Mode Name		Technical characteristics		Metric
Power source	1.1	Manufacturer		Manitou
1.5 Max. capacity	1.2	Model Name		ES 616 LI (5pts)
1.5	1.3	Power source		Electrical
1.6 Lod center of powly	1.4	Operator type		Pedestrian
1.5	1.5	Max. capacity	Q	1600 kg
1.9 Wheelbase y 1393 mm	1.6	Load center of gravity	С	600 mm
	1.8	Distance from Load backrest to center of rear axle	x	729 mm
120 kg 1	1.9	Wheelbase	у	1393 mm
Weight on front axie (laden) / rear axie (laden) 90% x / 1855 kg 90% x / 1855		Weight		
Weight on front axis (Unladen) rear axis	2.1	Service weight		1280 kg
Nice Nice Polymerhane Polymerhane	2.2	Weight on front axle (laden) / rear axle (laden)		1070 kg / 1855 kg
	2.3	Weight on front axle (Unladen) / rear axle (Unladen)		905 kg / 375 kg
3.3 Number of load wheels / Size of load wheels 4 / 82 x 68 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 1/20 x 54 3.5 Number of fortive wheels / Size of drive wheels 3 / 4 3.5.2 Number of drive wheels / Size of drive wheels b10 558 mm 3.6 Front wheel gauge b10 558 mm 3.7 Rear wheel gauge b11 30 mm 4.6 Initial lift h5 110 mm 4.15 Fork height in low position h13 86 mm 4.19 Overall length l1 1995 mm 4.21 Overall width l2 846 mm 4.22 Forks section / width / length s / e / l 60 mm / 185 mm / 1150 mm 4.22 Fork carriage width s / e / l 60 mm / 185 mm / 1150 mm 4.23 Aisle Width for pallets 1000 x 1200 crossways Ast 240 mm 4.34 Aisle Width for pallets 1000 x 1200 crossways Ast 240 mm 4.35 Tuming radius M8 1597 mm 4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 mm 5		Wheels		
3.4 Number of stabilizer wheels / Size of the stabilizer wheels 3 / 4 3.5.2 Number of front wheels / Size of drive wheels 1 / 20x70 3.6 Front wheel gauge b10 558 mm 3.7 Rear wheel gauge b10 558 mm 3.7 Rear wheel gauge b11 380 mm 4.6 Initial lift b5 110 mm 4.15 Fork height in low position h1 1995 mm 4.19 Overall length 11 1995 mm 4.20 Length to face of forks 12 846 mm 4.21 Overall width b1 800 mm 4.22 Fork carriage width s / e / l 60 mm / 195 mm / 1150 mm 4.22 Fork carriage width s / e / l 60 mm / 195 mm / 1150 mm 4.24 Fork carriage width s / e / l 60 mm / 195 mm / 1150 mm 4.23 Ground clearance at centre of wheelbase m2 2 4 mm 4.24 A isle width for solox 1 200 pallet lengthways A st 2 40 mm 4.35 Turning radius <td< td=""><td>3.1</td><td>Tires type</td><td></td><td>Polyurethane</td></td<>	3.1	Tires type		Polyurethane
3.5.1 Number of front wheels / rear wheels 3 / 4 3.5.2 Number of drive wheels / Size of drive wheels 12208/70 3.6 Front wheel gauge b10 558 mm 3.7 Rear wheel gauge b11 380 mm 4.6 Initial lift h5 1110 mm 4.15 Fork height in low position h13 86 mm 4.19 Overall length 11 1995 mm 4.20 Length to face of forks 12 846 mm 4.21 Overall width b1 800 mm 4.22 Forks section / width / length b1 800 mm 4.24 Fork section / width / length b1 800 mm 4.24 Fork section / width / length b3 700 mm 4.25 Fork section / width / length b3 700 mm 4.24 Fork section / width / length b3 700 mm 4.25 Fork section / width / length 81 239 mm 4.24 Fork section / width 81 239 mm 4.25		•		·
3.5.1 Number of front wheels / rear wheels 3 / 4 3.5.2 Number of drive wheels / Size of drive wheels 12208/70 3.6 Front wheel gauge b10 558 mm 3.7 Rear wheel gauge b11 380 mm 4.6 Initial lift h5 1110 mm 4.15 Fork height in low position h13 86 mm 4.19 Overall length 11 1995 mm 4.20 Length to face of forks 12 846 mm 4.21 Overall width b1 800 mm 4.22 Forks section / width / length b1 800 mm 4.24 Fork section / width / length b1 800 mm 4.24 Fork section / width / length b3 700 mm 4.25 Fork section / width / length b3 700 mm 4.24 Fork section / width / length b3 700 mm 4.25 Fork section / width / length 81 239 mm 4.24 Fork section / width 81 239 mm 4.25	3.4	Number of stabilizer wheels / Size of the stabilizer wheels		2 / 120 x 54
3.6 Front wheel gauge b10 558 mm 3.7 Rear wheel gauge b11 380 mm 4.6 Initial lift h5 110 mm 4.15 Fork height in low position h3 86 mm 4.19 Overall length 11 1995 mm 4.20 Length to face of forks 12 346 mm 4.21 Overall width 51 800 mm 4.22 Fork section / width / length 5 / (1 60 mm / 185 mm / 1150 mm 4.24 Fork carriage width 5 / (2 60 mm / 185 mm / 1150 mm 4.24 Fork carriage width 5 / (2) 60 mm / 185 mm / 1150 mm 4.24 Fork carriage width 5 / (2) 6 mm / 185 mm / 1150 mm 4.24 Fork carriage width 5 / (2) 4 st 2 399 mm 4.25 Ground clearance at centre of wheelbase m2 2 4 mm 4.33 Aisle width for pallet 1000 x 1200 crossways Ast 2 200 mm 4.34 Aisle width for pallet 1000 x 1200 crossways Ast 1 14 / 14 750 mm / 1250 mm 4.9 Hight biller min. / max. Part of management	3.5	Number of front wheels / rear wheels		3 / 4
3.6 Front wheel gauge b10 558 mm 3.7 Rear wheel gauge b11 380 mm 4.6 Initial lift h5 110 mm 4.15 Fork height in low position h13 86 mm 4.19 Overall length 11 1995 mm 4.20 Length to face of forks 12 346 mm 4.21 Overall width b1 800 mm 4.22 Fork section / width / length b1 800 mm 4.24 Fork cariage width b3 700 mm 4.22 Ground clearance at centre of wheelbase m2 2 mm 4.32 Aisle width for pallet 1000 x 1200 crossways Ast 2 mm 4.33 Aisle width for pallet 1000 x 1200 crossways Ast 2 mm 4.34 Aisle width for pallet 1000 x 1200 crossways Ast 2 mm 4.35 Turning adus Ma 1597 mm 4.9 Height üller min. / max. Max 14 / 14 750 mm / 1250 mm 5.1 Travel speed (laden / unladen) Max 6 km/h / 6 km/h 5.2 Liffus speed (laden / unladen) </td <td>3.5.2</td> <td>Number of drive wheels / Size of drive wheels</td> <td></td> <td>1/230x70</td>	3.5.2	Number of drive wheels / Size of drive wheels		1/230x70
Rear wheel gauge Bit Bit	3.6		b10	
Dimensions	3.7		b11	380 mm
4.6 Initial lift h5 110 mm 4.15 Fork height in low position h13 86 mm 4.19 Overall leight in low position h13 86 mm 4.20 Length to face of forks 12 846 mm 4.21 Overall width b1 800 mm 4.21 Forks section / width / length 5 / e / l 60 mm / 185 mm / 1150 mm 4.22 Fork carriage width b3 700 mm 4.23 Ground clearance at centre of wheelbase m2 24 mm 4.33 Alsle Width for pallets 1000 x 1200 crosswys Ast 2399 mm 4.34 Alsle width for 800 x 1200 pallet lengthways Ast 2402 mm 4.35 Tuming radius Ma 1597 mm 4.9 Height tiller min. / max. Ma 1597 mm 4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 mm 5.1 Tavel speed (laden / unladen) 5 6 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.18 m/s / 0.32 m/s 7 % / 10 % 5.8				
4.15 Fork height in low position h13 86 mm 4.19 Overall leight 11 1995 mm 4.20 Leight to face of forks 12 846 mm 4.21 Overall width b1 800 mm 4.22 Fork section / width / leight 5 / e / l 60 mm / 185 mm / 1150 mm 4.24 Fork carriage width 33 700 nm 4.32 Ground clearance at center of wheelbase m2 2 4 mm 4.33 Asile Width for pallets 1000 x 1200 crossways Ast 2399 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2402 mm 4.39 Tuming radius M8 1597 mm 4.9 Height tiller min. / max. h14/h14 750 mm / 1250 mm 5.1 Travel speed (laden / unladen) 0.18 m/s / 0.30 m/s 6 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 1.0 km/s 0.27 m/s / 0.22 m/s 5.3 Lowering speed (laden / unladen) 7 k/ 10 km/s 1.50 kW 5.1 Service brake Electro magnetic 1.50 kW	4.6		h5	110 mm
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5.8 Max Gradeability (laden / unladen) 7 % / 10 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating \$2.60 min 1.50 kW 6.2 Lift motor rating at \$3.15% 3 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 220 kg Miscellaneous 8.1 Type of drive control AC		- ' '		
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6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 220 kg Miscellaneous 8.1 Type of drive control AC				
6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 220 kg Miscellaneous 8.1 Type of drive control AC				
6.5 Battery weight (+/- 5%) 220 kg Miscellaneous 8.1 Type of drive control AC				
Miscellaneous 8.1 Type of drive control AC				
8.1 Type of drive control AC	0.0			220 kg
"	8.1			A.C.
		7.		

ES 616 LI (5pts) - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1953	2203
h2 - Mast free lift	mm	1506	1756
h3 - Mast lifting height	mm	1506	1756
h4 - Mast extended height	mm	1960	2210
Residual capacity at max height	kg	1600	1600

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1953	2203
h2 - Mast free lift	mm	1506	1756
h3 - Mast lifting height	mm	2931	3431
h4 - Mast extended height	mm	3385	3885
Residual capacity at max height	kg	1300	1000

Free Lift Triplex (FLT)	FLT 42	
h1 - Mast lowered height	mm	1911
h2 - Mast free lift	mm	1466
h3 - Mast lifting height	mm	4246
h4 - Mast extended height	mm	4723
Residual capacity at max height	kg	600





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