Technical sheet:

ES 616 LI





3.6 Front wheel gauge b10 529 mm 3.7 Rear wheel gauge b11 380 mm Umensions 4.6 Initial lift h5 110 mm 4.15 Fork height in low position h13 86 mm 4.19 Overall length l1 2174 mm 4.20 Length to face of forks l2 976 mm 4.21 Overall width b1 800 mm 4.22 Forks section / width / length s / e / l 60 mm / 185 mm / 1190 mm			2237627	cated 611 5 May 2024 at 5:15:56 1 M
1.2 Model Name				
Power source	1.1	Manufacturer		Manitou
1.4	1.2	Model Name		ES 616 LI
1.5	1.3	Power source		Electrical
1.5 Load center of gravity	1.4	Operator type		Pedestrian
1.5	1.5	Max. capacity	Q	1600 kg
1.9 Wheelbase y 14.92 mm	1.6	Load center of gravity	С	600 mm
Negit Service weight Service weigh	1.8	Distance from Load backrest to center of rear axle	x	848 mm
Service weight 1127 kg 1227 kg 1227 kg 1226 kg / 1670 kg 1227 kg 1238 kg / 290 kg 1033 kg / 290 kg 1239 kg / 24 kg / 2	1.9	Wheelbase	у	1492 mm
Weight on front axle (laden) / rear axle (laden) 1246 kg / 1670 kg 1033 kg / 200 k		Weight		
Weight on front axie (Unladen) / rear axie (Unladen)	2.1	Service weight		1327 kg
Nice Nice	2.2	Weight on front axle (laden) / rear axle (laden)		1246 kg / 1670 kg
1	2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1033 kg / 290 kg
3.3 Number of load wheels / Size of load wheels 2 / 140x60 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 4 3.5 Number of forthewheels / Faze wheels 2 / 4 3.5. Number of forthewheels / Size of drive wheels 11/230x70 3.6 Fonth wheelg Jauge b10 529 mm 3.7 Rear wheel gauge b11 380 mm 4.6 Initial lift h5 110 mm 4.15 Fonk height in low position h13 86 mm 4.19 Overall length 11 2174 mm 4.20 Length for face of forks 12 976 mm 4.21 Overall width b1 800 mm 4.22 Forks section / width / length \$ / e / I 60 mm/ 185 mm / 1190 mm 4.24 Fork carriage width b1 800 mm 4.22 Fork carriage width p3 700 m 4.23 Asis width for pallets 1000 x 1200 crissways Ast 2435 mm 4.31 Asis width for pallets 1000 x 1200 crissways Ast 0.18 mm		Wheels		
3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 4 3.5.2 Number of front wheels / Size of drive wheels 2 / 4 3.5.2 Number of front wheels / Size of drive wheels 1/230x70 3.6 Front wheel gauge b10 529 mm 3.7 Rear wheel gauge b10 529 mm 3.7 Rear wheel gauge b10 380 mm 4.6 Initial lift h5 110 mm 4.5 Fork height in low position h13 86 mm 4.19 Overall length 11 2174 mm 4.20 Length to face of forks 12 976 mm 4.21 Overall width b1 800 mm 4.22 Fork carriage width s / e / l 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width s / e / l 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width s / e / l 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width s / e / l 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width s / e / l 60 mm / 185 mm / 1190 mm 4.25 Ground clearance at ce	3.1	Tires type		Bandage
3.5 Number of front wheels / rear wheels 2 / 4 3.5 Number of drive wheels / Size of drive wheels 1/230x70 3.6 Front wheel gauge b10 529 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 2174 mm 4.20 Length to face of forks 12 976 mm 4.21 Overall width b1 800 mm 4.22 Forks section / width / length 5 / 4 60 mm/ 185 mm / 1190 mm 4.24 Forks carriage width 5 / 4 60 mm/ 185 mm / 1190 mm 4.24 Fork carriage width 5 / 700 m 60 mm/ 185 mm / 1190 mm 4.24 Fork carriage width 5 / 8 700 m 60 mm/ 185 mm / 1190 mm 4.24 Fork carriage width 9 / 8 700 mm 70 mm 60 mm/ 185 mm / 1190 mm 1190 mm <td>3.3</td> <td>Number of load wheels / Size of load wheels</td> <td></td> <td>2 / 140x60</td>	3.3	Number of load wheels / Size of load wheels		2 / 140x60
Number of drive wheels / Size of drive wheels 1/230x70 529 mm 529 m	3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 140x60
3.6 Front wheel gauge b10 529 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 2174 mm 4.20 Length to face of forks 12 976 mm 4.21 Overall width b1 800 mm 4.22 Fork section / width / length b1 800 mm 4.24 Fork carriage width b3 700 m 4.24 Fork carriage width b3 700 m 4.24 Fork carriage width for pollet length volume m2 30 mm 4.24 Fork carriage width b3 700 m 4.24 Aisle width for pollet length volume m2 30 mm 4.33 Alse width for pollet length volume m2 158 mm 4.9 Hight wid	3.5	Number of front wheels / rear wheels		2 / 4
Rear wheel gauge	3.5.2	Number of drive wheels / Size of drive wheels		1/230x70
Dimensions	3.6	Front wheel gauge	b10	529 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 11 2.174 mm 4.20 Length to face of forks 12 976 mm 4.21 Overall width b1 800 mm 4.22 Forks section / width / length b1 800 mm 4.24 Fork carriage width b3 700 m 4.23 Ground clearance at centre of wheelbase m2 30 mm 4.33 Aisle width for soot x 1200 pallet lengthways Ast 2520 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2435 mm 4.35 Tuming radius Wa 1588 mm 4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 mm 5.1 Travel speed (laden / unladen) H14 / h14 750 mm / 1250 mm 5.2 Lifting speed (laden / unladen) 0.18 m/s / 0.30 m/s 0.27 m/s / 0.22 m/s 5.8 Max Gradeability (laden / unladen) 0.27 m/s / 0.22 m/s 7 % / 10 % 5.8 Engine 1.50 kW 6.1 <td>3.7</td> <td>Rear wheel gauge</td> <td>b11</td> <td>380 mm</td>	3.7	Rear wheel gauge	b11	380 mm
4.15 Fork height in low position h13 86 mm 4.19 Overall length i1 2.174 mm 4.20 Length to face of forks i2 976 mm 4.21 Overall width b1 800 mm 4.22 Fork section / width / length s / e / l 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width b3 700 m 4.32 Ground clearance at centre of wheelbase m2 30 mm 4.33 Asile Width for pallets 1000 x 1200 crossways Ast 2520 mm 4.34 Alsie width for 800 x 1200 pallet lengthways Ast 2435 mm 4.34 Tuming radius Ma 1588 mm 4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 mm 5.1 Travel speed (laden / unladen) 6 km/h 6 km/h 6 km/h 5.2 Lifting speed (laden / unladen) 0.18 m/s / 0.30 m/s 5.1 5.3 Lowering speed (laden / unladen) 0.27 m/s / 0.22 m/s 5.10 km/s 5.1 Service brake Electro magnetic Electro magnetic				
4.15 Fork height in low position h13 86 mm 4.19 Overall length i1 2.174 mm 4.20 Length to face of forks i2 976 mm 4.21 Overall width b1 800 mm 4.22 Fork section / width / length s / e / l 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width b3 700 m 4.32 Ground clearance at centre of wheelbase m2 30 mm 4.33 Asile Width for pallets 1000 x 1200 crossways Ast 2520 mm 4.34 Alsie width for 800 x 1200 pallet lengthways Ast 2435 mm 4.34 Tuming radius Ma 1588 mm 4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 mm 5.1 Travel speed (laden / unladen) 6 km/h 6 km/h 6 km/h 5.2 Lifting speed (laden / unladen) 0.18 m/s / 0.30 m/s 5.1 5.3 Lowering speed (laden / unladen) 0.27 m/s / 0.22 m/s 5.10 km/s 5.1 Service brake Electro magnetic Electro magnetic	4.6	Initial lift	h5	110 mm
4.19 Overall length I1 2174 mm 4.20 Length to face of forks I2 976 mm 4.21 Overall width b1 800 mm 4.22 Forks section / width / length s / e / l 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width b3 700 m 4.32 Ground clearance at centre of wheelbase m2 30 mm 4.33 Aisle width for pallets 1000 x 1200 crossways Ast 2520 mm 4.34 Aisle width for pallets 1000 x 1200 crossways Ast 2520 mm 4.35 Turning radius Wa 1588 mm 4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 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 5.2 Lifting speed (laden / unladen) 0.18 m/s / 0.30 m/s 5.3 Lowering speed (laden / unladen) 0.27 m/s / 0.22 m/s 5.1 Service brake Electro magnetic 6.1 Drive motor rating s2 60 min 1.50 kW 6.2 Lift motor rating at S3 15%	4.15			86 mm
Length to face of forks 12 976 mm A21 Overall width Overall width length b1 800 mm A22 Fork section / width / length 5 / e / 1 60 mm / 185 mm / 1190 mm A23 Fork carriage width b3 700 m A34 Side Width for pallets 1000 x 1200 crossways Ast 2520 mm A35 Aisle Width for pallets 1000 x 1200 crossways Ast 2435 mm A36 Aisle width for 800 x 1200 pallet lengthways Ast 2435 mm A37 Tuming radius Wa 1588 mm A49 Height tiller min. / max. h14 / h14 750 mm / 1250 mm Performances	4.19		I1	2174 mm
4.21 Overall width b1 800 mm 4.22 Forks section / width / length s / e / l 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width b3 700 m 4.22 Ground clearance at cente of wheelbase m2 30 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2520 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2435 mm 4.35 Tuming radius Wa 1588 mm 4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 mm 5.1 Travel speed (laden / unladen) 6 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.18 m/s / 0.30 m/s 5.3 Lowering speed (laden / unladen) 0.18 m/s / 0.30 m/s 5.1 Service brake Electro magnetic 6.1 Brive motor rating \$2.60 min 1.50 kW 6.1 Divie motor rating \$2.60 min 1.50 kW 6.2 Lift motor rating \$2.60 min 3 kW 6.3 Battery voltage / capacity 24 V / 180 Ah 6.4 Battery voltage / capacity 24 V / 180 Ah	4.20	•		976 mm
4.22 Forks section / width / length s / e / I 60 mm / 185 mm / 1190 mm 4.24 Fork carriage width b3 700 m 4.32 Ground clearance at centre of wheelbase m2 30 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2520 mm 4.34 Aisle Width for 800 x 1200 pallet lengthways Ast 2435 mm 4.35 Tuming radius Wa 1588 mm 4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 mm 6.1 Travel speed (laden / unladen) 6 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 0.18 m/s / 0.30 m/s 5.3 Lowering speed (laden / unladen) 0.7 m/s / 0.22 m/s 5.3 Lowering speed (laden / unladen) 0.7 m/s / 0.22 m/s 5.1 Senrice brake Electro magnetic 6.1 Dive motor rating \$2.60 min 1.50 kW 6.2 Lift motor rating \$2.60 min 1.50 kW 6.3 Battery voltage / capacity 24 V / 180 Ah 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery voltage / capacity 24 V / 180 Ah	4.21			800 mm
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5.3 Lowering speed (laden / unladen) 0.27 m/s / 0.22 m/s 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%) 189 kg Miscellaneous 8.1 Type of drive control AC				
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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%) 189 kg Miscellaneous 8.1 Type of drive control AC	0.10			Electio magnetic
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6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 189 kg Miscellaneous 8.1 Type of drive control AC				
6.5 Battery weight (+/- 5%) 189 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			103 kg
	0.1			A.C.
		7.		

ES 616 LI - 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

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1953	2203	2403
h3 - Mast lifting height	mm	2936	3436	3836
h4 - Mast extended height	mm	3390	3890	4290
Residual capacity at max height	ka	1350	1100	850

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	1350	1100

Free Lift Triplex (FLT)	FLT 42	FLT 47	FLT 54	
h1 - Mast lowered height	mm	1911	2071	2315
h2 - Mast free lift	mm	1466	1626	1880
h3 - Mast lifting height	mm	4246	4726	5460
h4 - Mast extended height	mm	4723	5203	5895
Residual capacity at max height	kg	670	500	450





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