Technical sheet:

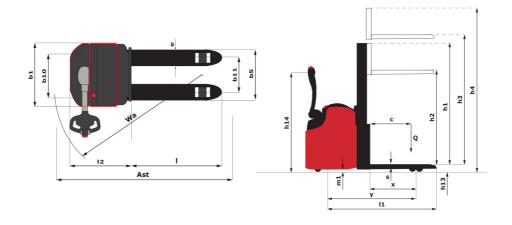
ES 616 LI





			cated off iviay 2, 2024 at 1.02.27 Aivi o
Technical characteristics			Metric
1.1 Manufacturer			Manitou
1.2 Model Name			ES 616 LI
1.3 Power source			Electrical
1.4 Operator type			Pedestrian
1.5 Max. capacity		Q	1600 kg
1.6 Load center of gravity		С	600 mm
1.8 Distance from Load backrest to center of rear ax	e	X	848 mm
1.9 Wheelbase		у	1492 mm
Weight			
2.1 Service weight			1327 kg
2.2 Weight on front axle (laden) / rear axle (laden)			1246 kg / 1670 kg
2.3 Weight on front axle (Unladen) / rear axle (Unladen)	en)		1033 kg / 290 kg
Wheels			
3.1 Tires type			Bandage
3.3 Number of load wheels / Size of load wheels			2 / 140x60
3.4 Number of stabilizer wheels / Size of the stabilizer	er wheels		1 / 140x60
3.5 Number of front wheels / rear wheels			2 / 4
3.5.2 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
Dimensions			
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		12	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 800 x 1200 pallet lengthways		Ast	2435 mm
4.35 Turning radius		Wa	1588 mm
4.9 Height tiller min. / max.		h14 / h14	750 mm / 1250 mm
Performances			
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)			0.27 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 S2 60 min			1.50 kW
6.2 Lift motor rating at S3 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
8.4 Sound level at the driver's ear according to DIN 12	053		65 dB

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	kg	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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