Technical sheet :



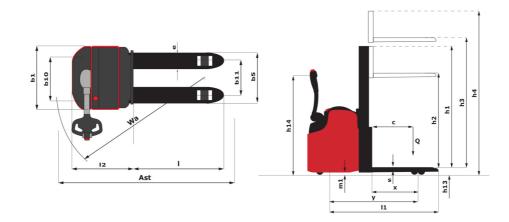




	Technical characteristics
1.1	Manufacturer
1.1	Manufacturer
1.2	Power source
1.4	Operator type
1.4	Max. capacity
1.5	Load center of gravity
1.8	Distance from Load backrest to center of rear axle
1.9	Wheelbase
1.9	Weight
2.1	Service weight
2.2	Weight on front axle (laden) / rear axle (laden)
2.3	Weight on front axle (Unladen) / rear axle (Unladen)
2.0	Wheels
3.1	Tires type
3.3	Number of load wheels / Size of load wheels
3.4	Number of stabilizer wheels / Size of the stabilizer wheels
3.5	Number of front wheels / rear wheels
3.5.2	Number of drive wheels / Size of drive wheels
3.6	Front wheel gauge
3.7	Rear wheel gauge
0.7	Dimensions
4.6	Initial lift
4.15	Fork height in low position
4.19	Overall length
4.20	Length to face of forks
4.21	Overall width
4.22	Forks section / width / length
4.24	Fork carriage width
4.32	Ground clearance at centre of wheelbase
4.33	Aisle Width for pallets 1000 x 1200 crossways
4.34	Aisle width for 800 x 1200 pallet lengthways
4.35	Turning radius
4.9	Height tiller min. / max.
	Performances
5.1	Travel speed (laden / unladen)
5.2	Lifting speed (laden / unladen)
5.3	Lowering speed (laden / unladen)
5.8	Max Gradeability (laden / unladen)
5.10	Service brake
	Engine
6.1	Drive motor rating S2 60 min
6.2	Lift motor rating at S3 15%
6.3	Battery according to DIN 43531/35/36 A, B, C
6.4	Battery voltage / capacity
6.5	Battery weight (+/- 5%)
	Miscellaneous
8.1	Type of drive control
8.4	Sound level at the driver's ear according to DIN 12 053

ES 616 LI Created on August 30, 2025 at 5	54 PM UTC
Metric	
Manitou	
ES 616 LI	
Electrical - Lead	
Pedestrian	
Q 1600 kg	
c 600 mm	
x 848 mm	
y 1492 mm	
1283 kg	
1216 kg / 1660 kg	
1033 kg / 280 kg	
Polyurethane	
4 / 82 x 68	
1 / 120 x 54	
2/4	
1/230x70	
b10 529 mm	
b11 380 mm	
h5 110 mm	
h13 86 mm	
l1 2035 mm	
l2 846 mm	
b1 800 mm	
s / e / l 60 mm / 185 mm / 1190 m	m
b3 700 m	
m2 30 mm	
Ast 2520 mm	
Ast 2435 mm	
Wa 1716 mm	
h14 / h14 750 mm / 1250 mm	
6 km/h / 6 km/h	
0.18 m/s / 0.30 m/s	
0.27 m/s / 0.22 m/s	
0.27 m/s / 0.22 m/s 7 % / 10 %	
7 % / 10 %	
7 % / 10 %	
7 % / 10 % Electro magnetic	
7 % / 10 % Electro magnetic 1.50 kW	
7 % / 10 % Electro magnetic 1.50 kW 3 kW	
7 % / 10 % Electro magnetic 1.50 kW 3 kW DIN 43535-B	
7 % / 10 % Electro magnetic 1.50 kW 3 kW DIN 43535-B 24 V / 180 Ah	
7 % / 10 % Electro magnetic 1.50 kW 3 kW DIN 43535-B 24 V / 180 Ah	

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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