Technical sheet :



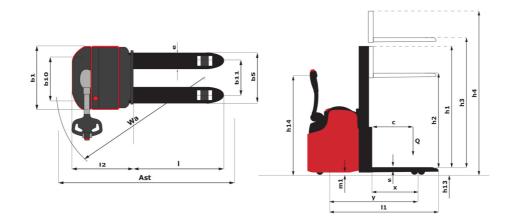




11	Technical characteristics Manufacturer
1.1	Manuracturer Model Name
	Model Name Power source
1.3	
1.4	Operator type
1.5	Max. capacity
1.6	Load center of gravity
1.8	Distance from Load backrest to center of rear axle
1.9	Wheelbase
	Weight
2.1	Service weight
2.2	Weight on front axle (laden) / rear axle (laden)
2.3	Weight on front axle (Unladen) / rear axle (Unladen)
	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
	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 \$3 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

Metric	/ UTC
Manitou	
ES 616 LI	
Electrical	
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 mm	
b3 700 m	
m2 30 mm	
m2 30 mm Ast 2520 mm Ast 2435 mm	
Ast         2520 mm           Ast         2435 mm	
Ast         2520 mm           Ast         2435 mm           Wa         1716 mm	
Ast         2520 mm           Ast         2435 mm	
Ast         2520 mm           Ast         2435 mm           Wa         1716 mm	
Ast         2520 mm           Ast         2435 mm           Wa         1716 mm           h14 / h14         750 mm / 1250 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	
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         0.22 m/s	
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           0.18 m/s / 0.30 m/s         0.27 m/s / 0.22 m/s           7 % / 10 %         7 % / 10 %	
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         0.22 m/s	
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           0.18 m/s / 0.30 m/s         0.27 m/s / 0.22 m/s           7 % / 10 %         7 % / 10 %	
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           7 % / 10 %         Electro magnetic	
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           7 % / 10 %         Electro magnetic            1.50 kW	
Ast         2520 mm           Ast         2435 mm           Wa         1716 mm           h14 / h14         750 mm / 1250 mm               0            0            0.18 m/s / 0.30 m/s            0.27 m/s / 0.22 m/s         7 % / 10 %           Electro magnetic            0.150 kW         3 kW	
Ast         2520 mm           Ast         2435 mm           Wa         1716 mm           h14 / h14         750 mm / 1250 mm           h14 / h14         750 mm / 1250 mm           0         0           0         0           0         0.18 m/s / 0.30 m/s           0.18 m/s / 0.30 m/s         0.27 m/s / 0.22 m/s           7 % / 10 %         2           1.50 kW         3 kW           0.18 n/s 43535-B         24 V / 180 Ah	
Ast         2520 mm           Ast         2435 mm           Wa         1716 mm           h14 / h14         750 mm / 1250 mm           H14 / h14         750 mm / 1250 mm           Image: Comparison of the symbol	
Ast         2520 mm           Ast         2435 mm           Wa         1716 mm           h14 / h14         750 mm / 1250 mm           h14 / h14         750 mm / 1250 mm           0         0           0         0           0         0.18 m/s / 0.30 m/s           0.18 m/s / 0.30 m/s         0.27 m/s / 0.22 m/s           7 % / 10 %         2           1.50 kW         3 kW           0.150 kW         3 kW           0.18 M3535-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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