Technical sheet :



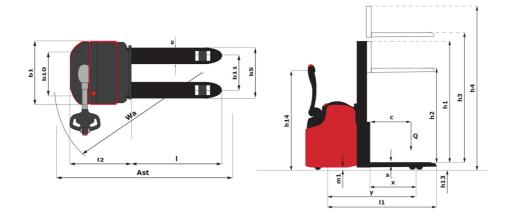




	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	(
1.6	Load center of gravity	(
1.8	Distance from Load backrest to center of rear axle	
1.9	Wheelbase	
	Weight	
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (laden)	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	
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	
3.4	Number of front wheels / rear wheels	
	Number of trive wheels / Size of trive wheels	
3.5.2		L.
3.6	Front wheel gauge	b
3.7	Rear wheel gauge	b
4.15	Dimensions	
4.15	Fork height in low position	h
4.19	Overall length	I
4.20	Length to face of forks	
4.21	Overall width	b
4.22	Forks section / width / length	s /
4.24	Fork carriage width	t
4.32	Ground clearance at centre of wheelbase	n
4.33	Aisle Width for pallets 1000 x 1200 crossways	Α
4.34	Aisle width for 800 x 1200 pallet lengthways	A
4.35	Turning radius	۷
4.9	Height tiller min. / max.	h14
	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	Created on May 13, 2024 at 11:43:28 PM UTC
	Metric
	Manitou
	ES 616
	Electrical
	Pedestrian
Q	1600 kg
С	600 mm
х	687 mm
у	1250 mm
	1327 kg
	1064 kg / 1620 kg
	851 kg / 240 kg
	Bandage
	2 / 140x60
	1 / 140x60
	2 / 2
	1/230x70
b10	529 m
b11	380 mm
h13	85 mm
11	1910 mm
12	761 mm
b1	800 mm
s / e / l	60 mm / 185 mm / 1150 mm
b3	700 mm
m2	30 mm
Ast	2464 mm
Ast	2438 mm
Wa	1588 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
	3 kW
	DIN 43535-B
	24 V / 180 Ah
	189 kg
	AC
	65 dB

## ES 616 - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	1505	1755
h4 - Mast extended height	mm	1944	2194
Residual capacity at max height	kg	1600	1600

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1930	2180	2380
h3 - Mast lifting height	mm	2935	3435	3835
h4 - Mast extended height	mm	3374	3874	4274
Residual capacity at max height	kg	1350	1100	900

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	2930	3430
h4 - Mast extended height	mm	3369	3869
Residual capacity at max height kg		1350	1100

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	mm	1889	2049	2300
h2 - Mast free lift	mm	1465	1625	1875
h3 - Mast lifting height	mm	4245	4725	5455
h4 - Mast extended height	mm	4701	5181	5880
Residual capacity at max height	kg	700	550	500



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