Technical sheet :



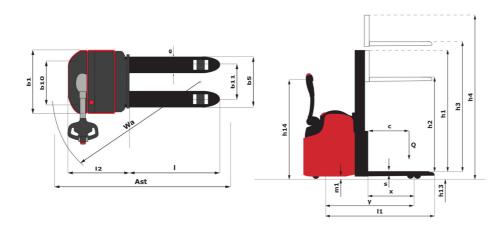




	Technical characteristics	
1	Manufacturer	
2	Model Name	
	Power source	
	Operator type	
	Max. capacity	
	Load center of gravity	
	Distance from Load backrest to center of rear axle	
	Wheelbase	
	Weight	
	Service weight	
	Weight on front axle (laden) / rear axle (laden)	
	Weight on front axle (Unladen) / rear axle (Unladen)	
	Wheels	
	Tires type	
	Number of load wheels / Size of load wheels	
	Number of stabilizer wheels / Size of the stabilizer wheels	
	Number of front wheels / rear wheels	
	Number of drive wheels / Size of drive wheels	
	Front wheel gauge	
	Rear wheel gauge	
	Dimensions	
	Fork height in low position	
	Overall length	
	Length to face of forks	
	Overall width	
	Forks section / width / length	
	Fork carriage width	
	Ground clearance below mast	
	Ground clearance at centre of wheelbase	
	Tuming radius	
	Performances	
	Travel speed (laden / unladen)	
	Lifting speed (laden / unladen)	
	Lowering speed (laden / unladen)	
	Max Gradeability (laden / unladen)	
	Service brake	
	Engine	
	Drive motor rating S2 60 min	
	Lift motor rating at \$3 15%	
	Battery according to DIN 43531/35/36 A, B, C	
	Battery voltage / capacity	
	Battery weight (+/- 5%)	
	Miscellaneous	
	Type of drive control	

Metric	UTC				
Manitou					
ES 412 ET					
Electrical					
Pedestrian					
Q 1200 kg					
c 600 mm					
x 683 mm					
y 1245 mm					
,					
874 kg					
729 kg / 1342 kg					
612 kg / 262 kg					
612 kg					
Polyurethane					
2 / 82x50					
1 / 125x70					
2/2					
1/230x75					
b10 517 mm					
b11 380 mm					
511 380 mm					
h13 85 mm					
11 1870 mm					
12 720 mm					
b1 800 mm					
s / e / l 180 mm / 60 mm / 1150 mm					
b3 680 m					
m1 35 mm					
m2 20 mm					
Wa 1400 mm					
6 km/h / 6 km/h					
0.10 m/s / 0.16 m/s					
0.14 m/s / 0.12 m/s					
0.14 m/s / 0.12 m/s 8 % / 10 %					
0.14 m/s / 0.12 m/s					
0.14 m/s / 0.12 m/s 8 % / 10 % Electro magnetic					
0.14 m/s / 0.12 m/s 8 % / 10 % Electro magnetic 1 kW					
0.14 m/s / 0.12 m/s 8 % / 10 % Electro magnetic 1 kW 2 kW					
0.14 m/s / 0.12 m/s 8 % / 10 % Electro magnetic 1 kW 2 kW DIN 43535-B					
0.14 m/s / 0.12 m/s 8 % / 10 % Electro magnetic 1 kW 2 kW DIN 43535-B 24 V / 160 Ah					
0.14 m/s / 0.12 m/s 8 % / 10 % Electro magnetic 1 kW 2 kW DIN 43535-B					
0.14 m/s / 0.12 m/s 8 % / 10 % Electro magnetic 1 kW 2 kW DIN 43535-B 24 V / 160 Ah 150 kg					
0.14 m/s / 0.12 m/s 8 % / 10 % Electro magnetic 1 kW 2 kW DIN 43535-B 24 V / 160 Ah					

ES 412 ET - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Duplex (CCD)	CCD 26	CCD 29	CCD 34	
h1 - Mast lowered height	mm	1780	1930	2180
h2 - Mast free lift	mm	140	140	140
h3 - Mast lifting height	mm	2630	2930	3430
h4 - Mast extended height	mm	3065	3365	3865
Residual capacity at max height	kg	1200	1200	1000

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1500	1750
h3 - Mast lifting height	mm	1500	1750
h4 - Mast extended height	mm	1930	2180
Residual capacity at max height	kg	1200	1200



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