Technical sheet :



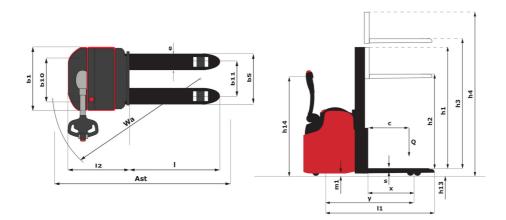




	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	
1.6	Load center of gravity	
1.8	Distance from Load backrest to center of rear axle	
1.9	Wheelbase	
1.2	Weight	
2.1	Service weight	
2.1	-	
	Weight on front axle (laden) / rear axle (laden)	
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	
4.15	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	
4.31	Ground clearance below mast	
4.32	Ground clearance at centre of wheelbase	
4.35	Turning radius	
	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%)	
0.5	Miscellaneous	- <b>-</b>
8.1	Type of drive control	
8.4	Sound level at the driver's ear according to DIN 12 053	

ES 412 ET	Created on 06 May 2024 at 09:46:36 UTC		
	Metric		
	Manitou		
	ES 412 ET		
	Electrical		
	Pedestrian		
Q	1200 kg		
с	600 mm		
х	683 mm		
у	1245 mm		
	874 kg		
	729 kg / 1342 kg		
	612 kg / 262 kg		
	Polyurethane		
	2 / 82x50		
	1 / 125x70		
	2/2		
	1/230x75		
b10	517 mm		
b11	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		
	8 % / 10 %		
	Electro magnetic		
	1 kW		
	2 kW		
	DIN 43535-B		
	24 V / 160 Ah		
	150 kg		
	AC		
	65 dB		

## 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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