Technical sheet :



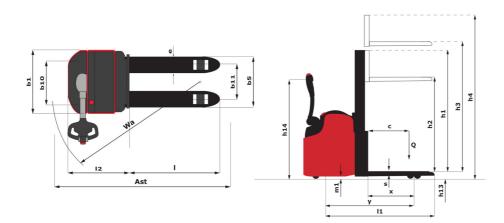




		13 412 1
	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	Q
1.6	Load center of gravity	c
1.8	Distance from Load backrest to center of rear axle	X
1.9	Wheelbase	у
	Weight	
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (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	b1
3.7	Rear wheel gauge	b1
	Dimensions	
4.15	Fork height in low position	h1
4.19	Overall length	11
4.20	Length to face of forks	12
4.21	Overall width	b1
4.22	Forks section / width / length	s / e
4.24	Fork carriage width	b3
4.31	Ground clearance below mast	m
4.32	Ground clearance at centre of wheelbase	mź
4.35	Turning radius	Wa
	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%)	
0.1	Miscellaneous	
8.1	Type of drive control	
8.4	Sound level at the driver's ear according to DIN 12 053	

2 E T	Created on September 11, 2025 at 11:22 AM UTC
	Metric
	Manitou
	ES 412 ET
	Electrical - Lead
	Pedestrian
Q	1200 kg
С	600 mm
х	684 mm
у	1246 mm
	874 kg
	729 kg / 1342 kg
	612 kg / 262 kg
	Polyurethane
	2 / 82x68
	1 / 125x70
	2 / 2
	1/230x75
b10	517 mm
b11	380 mm
L10	
h13 1	86 mm 1875 mm
	724 mm
12	832 mm
b1 /e/l	
b3	680 m
m1	35 mm
m2	30 mm
Wa	1470 mm
wa	1470 11111
	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
	165 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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