Technical sheet :



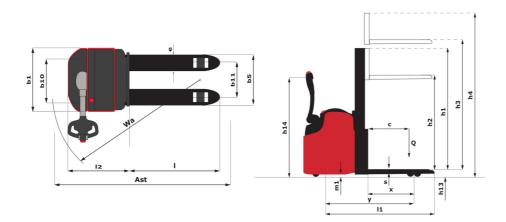




Technical characteristics 1.1 Manufacturer 1.2 Model Name 1.3 Power source 1.4 Operator type 1.5 Max. capacity 1.6 Load center of gravity	
1.2 Model Name 1.3 Power source 1.4 Operator type 1.5 Max. capacity	
.3 Power source .4 Operator type .5 Max. capacity	
.4 Operator type .5 Max. capacity	
5 Max. capacity	
Max. capacity	
B 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 load wheels / Size of load wheels Number of stabilizer wheels / Size of the stabilizer wheels	
Number of stabilizer wheels / size of the stabilizer wheels	
2 Number of drive wheels / Size of drive wheels	
Front wheel gauge Rear wheel gauge	
Dimensions	
Length to face of forks Overall width	
Forks section / width / length Fork carriage width	
Fork carriage width	
Ground clearance below mast	
Ground clearance at centre of wheelbase	
Turning 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 S3 15%	
Battery according to DIN 43531/35/36 A, B, C	
Battery voltage / capacity	
Battery weight (+/- 5%)	
Miscellaneous	
Type of drive control Sound level at the driver's ear according to DIN 12 053	

ES 412 ET	Created on August 30, 2025 at 10:29 PM UTC				
	Metric				
	Manitou				
	ES 412 ET				
	Electrical - Lead				
	Pedestrian				
Q	1200 kg				
С	600 mm				
x	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				
h13	86 mm				
11	1875 mm				
12	724 mm				
b1	832 mm				
s / e / l	180 mm / 60 mm / 1150 mm				
b3	680 m				
m1	35 mm				
m2	30 mm				
Wa	1470 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				
	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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