Technical sheet :



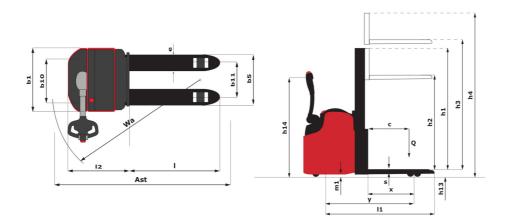




Technical characteristics
Manufacturer
Model Name
Power source
Operator type
Max. capacity
Load center of gravity
Distance from Load backrest to center of rear axle
Wheelbase
Weight Consider which the second se
Service weight
Weight on front axle (laden) / rear axle (laden)
Weight on front axle (Unladen) / 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
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 02 May 2024 at 17:51:39 UTC				
	Metric				
	Manitou				
	ES 412 ET				
	Electrical				
	Pedestrian				
Q	1200 kg				
С	600 mm				
x	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



Head Office B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



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