Technical sheet :





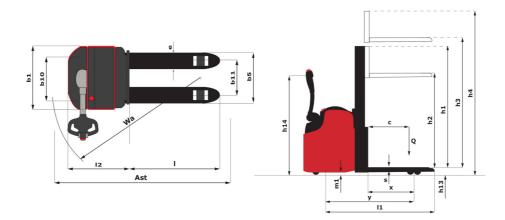


	Technical characteristics
.1	Manufacturer
.2	Model Name
1.3	Power source
.4	Operator type
.5	Max. capacity
1.6	Load center of gravity
.8	Distance from Load backrest to center of rear axle
.9	Wheelbase
	Weight
2.1	Service weight
2.2	Weight on front axle (laden) / rear axle (laden)
2.3	Weight on front axle (Unladen) / rear axle (Unladen)
	Wheels
.1	Tires type
.3	Number of load wheels / Size of load wheels
3.4	Number of stabilizer wheels / Size of the stabilizer wheels
8.5	Number of stabilizer wheels / size of the stabilizer wheels
.5.2	Number of drive wheels / Size of drive wheels
3.6 3.7	Front wheel gauge
3.7	Rear wheel gauge
15	Dimensions
.15	Fork height in low position
.19	Overall length
.20	Length to face of forks
.21	Overall width
22	Forks section / width / length
24	Fork carriage width
31	Ground clearance below mast
32	Ground clearance at centre of wheelbase
85	Turning radius
	Performances
i.1	Travel speed (laden / unladen)
.2	Lifting speed (laden / unladen)
i.3	Lowering speed (laden / unladen)
5.8	Max Gradeability (laden / unladen)
.10	Service brake
	Engine
5.1	Drive motor rating S2 60 min
5.2	Lift motor rating at S3 15%
5.3	Battery according to DIN 43531/35/36 A, B, C
5.4	Battery voltage / capacity
5.5	Battery weight (+/- 5%)
	Miscellaneous
3.1	Type of drive control
.4	Sound level at the driver's ear according to DIN 12 053

ES 412 ET	Created on April 29, 2024 at 4:21:43 PM 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
1	1870 mm
12	720 mm
b1	800 mm
s/e/l b3	180 mm / 60 mm / 1150 mm 680 m
D3 m1	35 mm
m1 m2	20 mm
Wa	1400 mm
Wa	1400 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
	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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