Technical sheet :







Technical characteristics .1 Manufacturer .2 Model Name .3 Power source	
.2 Model Name	
2 Dowor course	
4 Operator type	
5 Max. capacity	
6 Load center of gravity	
.8 Distance from Load backrest to center of rear axle	
9 Wheelbase	
Weight	
1 Service weight	
2 Weight on front axle (laden) / rear axle (laden)	
Weight on front axle (Inladen) / rear axle (Unladen)	
Wheels	
5.2 Number of drive wheels / Size of drive wheels	
.6 Front wheel gauge .7 Rear wheel gauge	
Dimensions 5 Fork height in low position	
9 Overall length	
20 Length to face of forks 21 Overall width	
2 Forks section / width / length	
4 Fork carriage width	
Ground clearance below mast	
2 Ground clearance at centre of wheelbase 15 Turning radius	
· · · · · · · · · · · · · · · · · · ·	
Performances 1 Travel speed (laden / unladen)	
2 Lifting speed (laden / unladen)	
3 Lowering speed (laden / unladen)	
8 Max Gradeability (laden / unladen)	
10 Service brake	
Engine	
Drive motor rating S2 60 min	
2 Lift motor rating at \$3 15%	
4 Battery voltage / capacity	
5 Battery weight (+/- 5%)	
Miscellaneous	
.1 Type of drive control .4 Sound level at the driver's ear according to DIN 12 053	

ES 4	ES 412 Created on May 6, 2024 at 4:46:48 PM UTC				
	Metric				
	Manitou				
	ES 412				
	Electrical				
	Pedestrian				
Q	1200 kg				
С	600 mm 683 mm				
X	1245 mm				
у	1243 11111				
	874 kg				
	729 kg / 1342 kg				
	612 kg / 262 kg				
	Polyurethane				
	2 / 82x70				
	1 / 125x50 2 / 2				
	1/230x70				
b10	517 mm				
b11	380 mm				
h13	85 mm				
11	1870 mm				
12	720 mm				
b1	800 mm				
s/e/l	60 mm / 180 mm / 1150 mm				
b3 m1	680 mm 35 mm				
m2	20 mm				
Wa	1400 mm				
	6 km/h / 6 km/h				
	0.12 m/s / 0.24 m/s				
	0.30 m/s / 0.20 m/s				
	8 % / 10 %				
	Electro magnetic				
	1.20 kW				
	3 kW				
	24 V / 180 Ah				
	160 kg				
	AC				
	65 dB				

Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1940	2190	2390
h3 - Mast lifting height	mm	2940	3440	3840
h4 - Mast extended height	mm	3365	3865	4265
Residual capacity at max height	kg	1200	1000	800

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1940	2190
h2 - Mast free lift	mm	1510	1760
h3 - Mast lifting height	mm	2935	3435
h4 - Mast extended height	mm	3365	3865
Residual capacity at max height	kg	1200	1000

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	mm	1965
h2 - Mast free lift	mm	1470
h3 - Mast lifting height	mm	4240
h4 - Mast extended height	mm	4735
Residual capacity at max height	kg	650



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