Technical sheet :







	Technical characteristics	
	Manufacturer	
	Model Name	
	Power source	
	Operator type	
	Max. capacity	
5	Load center of gravity	
.8	Distance from Load backrest to center of rear axle	
9	Wheelbase	
	Weight	
2.1	Service weight	
.2	Weight on front axle (laden) / rear axle (laden)	
.3	Weight on front axle (Unladen) / rear axle (Unladen)	
	Wheels	
.1	Tires type	
8.3	Number of load wheels / Size of load wheels	
3.4	Number of stabilizer wheels / Size of the stabilizer wheels	
8.5	Number of front wheels / rear wheels	
.5.2	Number of drive wheels / Size of drive wheels	
.6	Front wheel gauge	
3.7	Rear wheel gauge	
	Dimensions	
15	Fork height in low position	
9	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	
35	Turning radius	
	Performances	
.1	Travel speed (laden / unladen)	
.2	Lifting speed (laden / unladen)	
5.3	Lowering speed (laden / unladen)	
.8	Max Gradeability (laden / unladen)	
10	Service brake	
	Engine	
1	Drive motor rating S2 60 min	
2	Lift motor rating at S3 15%	
4	Battery voltage / capacity	
5	Battery weight (+/- 5%)	
	Miscellaneous	
.1	Type of drive control	
3.4	Sound level at the driver's ear according to DIN 12 053	

ES 412	Created on May 2, 2024 at 7:58:40 AM UTC
	Metric
	Manitou
	ES 412
	Electrical
	Pedestrian
Q	1200 kg
С	600 mm
x	683 mm 1245 mm
у	1245 11111
	874 kg
	729 kg / 1342 kg
	612 kg / 262 kg
	Polyurethane
	2 / 82x70
	1 / 125x50
	2/2
1.10	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	680 mm
m1	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
	10
	AC 65 dB
	00 GR

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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