Technical sheet :







	Technical characteristics	
.1	Manufacturer	
2	Model Name	
	Power source	
	Operator type	
5	Max. capacity	
6	Load center of gravity	
3	Distance from Load backrest to center of rear axle	
)	Wheelbase	
	Weight	
	Service weight	
2	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	
4	Number of stabilizer wheels / Size of the stabilizer wheels	
5	Number of front wheels / rear wheels	
i.2	Number of drive wheels / Size of drive wheels	
.z 6	Front wheel gauge	
7	Rear wheel gauge	
	Dimensions	
5	Fork height in low position	
9	Overall length	
0	Length to face of forks	
1	Overall width	
2	Forks section / width / length	
4	Fork carriage width	
1	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	
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	
4	Sound level at the driver's ear according to DIN 12 053	

ES 412 Created on May 2, 2024 at 5:46:48 PM UTC				
	Metric			
	Manitou			
	ES 412			
	Electrical			
	Pedestrian			
Q	1200 kg			
С	600 mm 683 mm			
x y	1245 mm			
,	1240 1111			
	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 s / e / l	800 mm 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			
	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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