Technical sheet :







	Technical characteristics
1	Manufacturer
2	Model Name
}	Power source
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)
3	Weight on front axle (Unladen) / rear axle (Unladen)
	Wheels
1	Tires type
3	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
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
20	Overall width
22	Forks section / width / length
24	Fork carriage width
24 31	Ground clearance below mast
32	Ground clearance at centre of wheelbase
.32	Aisle Width for pallets 1000 x 1200 crossways
33 34	Aisle width for 800 x 1200 pallet lengthways
34 35	Turning radius
	Performances
1	Travel speed (laden / unladen)
2	Lifting speed (laden / unladen)
.2 .3	
.3 .8	Lowering speed (laden / unladen)
.8 10	Max Gradeability (laden / unladen) Service brake
10	
1	Engine
1	Drive motor rating \$2.60 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

	Metric
	Manitou
	ES 412
	Electrical
	Pedestrian
Q	1200 kg
с	600 mm
х	683 mm
у	1245 mm
	874 kg
	729 kg / 1342 kg
	612 kg / 262 kg
	Polyurethane
	2 / 82x70
	1 / 125x50
	2/2
	1/230x70
010	517 mm
b11	380 mm
,,,,	300 mm
13	85 mm
11	1870 mm
12	720 mm
b1	800 mm
e/l	60 mm / 180 mm / 1150 mm
b3	680 mm
	35 mm
m1 	20 mm
m2	
Ast	2581 mm
Ast	2490 mm
Wa	1400 mm
	6 km /h / 6 km /h
	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
	1.00 1.00
	1.20 kW
	3 kW
	24 V / 180 Ah
	160 kg
	AC
	65 dB

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## 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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