Technical sheet :







	Technical characteristics
1.1	Manufacturer
1.2	Model Name
.3	Power source
1.4	Operator type
1.5	Max. capacity
1.6	Load center of gravity
1.8	Distance from Load backrest to center of rear axle
1.9	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
3.1	Tires type
3.3	Number of load wheels / Size of load wheels
3.4	Number of stabilizer wheels / Size of the stabilizer wheels
3.5	Number of front wheels / rear wheels
.5.2	Number of drive wheels / Size of drive wheels
3.6	Front wheel gauge
3.7	Rear wheel gauge
	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
.33	Aisle Width for pallets 1000 x 1200 crossways
.34	Aisle width for 800 x 1200 pallet lengthways
.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
i.1	Drive motor rating S2 60 min
i.2	Lift motor rating at S3 15%
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 41	■ Created on August 12, 2025 at 8:20 PM UTC
	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
b10	517 mm
b11	380 mm
h13	85 mm
11	1870 mm
12	720 mm
b1	800 mm
/ e / l	60 mm / 180 mm / 1150 mm
b3	680 mm
m1	35 mm
m2	20 mm
Ast	2581 mm
Ast	2490 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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