Technical sheet :



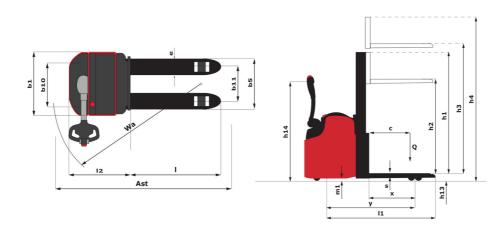




	Technical above and the	
1.1	Technical characteristics	
	Manufacturer	
	Model Name	
3	Power source	
.4	Operator type	
.5	Max. capacity	
6	Load center of gravity	
.8	Distance from Load backrest to center of rear axle	
9	Wheelbase	
	Weight	
.1	Service weight	
2	Weight on front axle (laden) / rear axle (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 castor wheels	
.4	Number of stabilizer wheels / Size of the stabilizer wheels	
5	Number of front wheels / rear wheels	
.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	
.0	Length to face of forks	
21	Overall width	
22	Forks section / width / length	
4	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	
5	Turning radius	
9	Height tiller max.	
	Performances	
	Travel speed (laden / unladen)	
	Lifting speed (laden / unladen)	
3	Lowering speed (laden / unladen)	
8	Max Gradeability (laden / unladen)	
0	Service brake	
	Engine	
	Drive motor rating \$2 60 min	
	Lift motor rating at S3 15%	
2	Battery according to DIN 43531/35/36 A, B, C	
4	Battery voltage / capacity	
5	Battery weight (+/- 5%)	
	Miscellaneous	
1	Type of drive control	
1	Sound level at the driver's ear according to DIN 12 053	

ES 414	Created on August 12, 2025 at 11:47 PM UTC
	Metric
	Manitou
	ES 414
	Electrical
	Pedestrian
Q	1400 kg
С	600 mm
X	684 mm
у	1245 mm
	968 kg
	800 kg / 1624 kg
	684 kg / 284 kg
	Polyurethane
	2 / 82x68
	1
	2 / 125x50
	2 / 2
	1/230x70
b10	517 mm
b11	380 mm
h13	87 mm
11	1875 mm
12	724 mm
b1	832 mm
s/e/l	60 mm / 180 mm / 1150 mm
b3	680 mm 35 mm
m1 m2	35 mm 30 mm
Ast	2581 mm
Ast	2381 mm
Wa	1400 mm
h14	1050 mm
1114	1030 1111
	6 km/h / 6 km/h
	0.10 m/s / 0.24 m/s
	0.30 m/s / 0.20 m/s
	8 % / 10 %
	Electro magnetic
	1.20 kW
	3 kW
	DIN 43535-B
	24 V / 180 Ah
	183 kg
	AC
	65 dB

ES 414 - Dimensional drawing



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	1250	1050	850
Height at max capacity	mm	2700	2700	2700

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1940	2190
h2 - Mast free lift	mm	1420	1670
h3 - Mast lifting height	mm	2935	3435
h4 - Mast extended height	mm	3365	3865
Residual capacity at max height	kg	1250	1000
Height at max capacity	mm	2700	2700

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	mm	1890
h2 - Mast free lift	mm	1380
h3 - Mast lifting height	mm	4240
h4 - Mast extended height	mm	4678
Residual capacity at max height	kg	700
Height at max capacity	mm	2700



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