Technical sheet:

## **ES 414**





Technical characteristics  Manufacturer		Metric
Manufacturer		
		Manitou
Model Name		ES 414
Power source		Electrical
Operator type		Pedestrian
Max. capacity	Q	1400 kg
Load center of gravity	С	600 mm
Distance from Load backrest to center of rear axle	X	723 mm
Wheelbase	у	1285 mm
Weight		
Service weight		911 kg
Weight on front axle (laden) / rear axle (laden)		808 kg / 1505 kg
Weight on front axle (Unladen) / rear axle (Unladen)		638 kg / 273 kg
Wheels		
Tires type		Polyurethane
Number of load wheels / Size of load wheels		2 / 82x70
Number of castor wheels		1
Number of stabilizer wheels / Size of the stabilizer wheels		2 / 125x50
Number of front wheels / rear wheels		2 / 2
		1/230x75
	b10	517 mm
		380 mm
	h13	85 mm
		1870 mm
·		720 mm
Overall width		800 mm
Forks section / width / length	s / e / l	60 mm / 180 mm / 1150 mm
		680 mm
·		35 mm
		20 mm
		2200 mm
		1400 mm
-		1050 mm
•		1000 11111
		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
		Liecuo magnetic
		1.20 kW
		3 kW
·		DIN 43535-B
•		24 V / 250 Ah
· · · · ·		24 V / 250 All 213 kg
		Z I 3 KY
		A.O.
•		AC 65 dB
	Max. capacity Load center of gravity Distance from Load backrest to center of rear axle Wheelbase Weight Service weight 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 Number of castor wheels Number of stabilizer wheels / Size of the stabilizer wheels Number of front wheels / Size of drive wheels Front wheel gauge Rear wheel gauge Dimensions Fork height in low position Overall length Length to face of forks	Max. capacity  Laad center of gravity  Co Distance from Laad backrest to center of rear axle  Wheelbase  Weight  Service weight  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  Number of castor wheels  Number of stabilizer wheels / Size of the stabilizer wheels  Number of front wheels / Fize of the stabilizer wheels  Number of front wheels / Fize of drive wheels  Front wheel gauge  b10  Rear wheel gauge  b110  Dimensions  Fork height in low position  Overall length  111  Length to face of forks  Overall width  Forks section / width / length  Fork carriage width  Ground clearance at centre of wheelbase  Alsie Width for pallets 1000 x 1200 crossways  Turning radius  Height tiller max.  Performances  Travel speed (laden / unladen)  Liffing speed (laden / unladen)  Luwering speed (laden / unladen)  Max Gradeability (Isden / unladen)  Max Gradeability (Isden / unladen)  Service brake  Engline  Drive motor rating S2 60 min  Liff motor rating S2 60 min  Liff motor rating at S3 15%  Battery vaccording to D1N 43531/35/36 A, B, C  Battery weight (+/- Sk)  Miscellancous  Type of drive control

## 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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