Technical sheet :



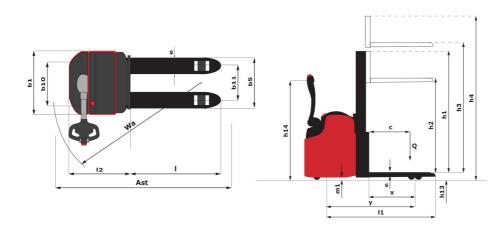




Technical characteristics     1.1   Manufacturer     1.2   Model Name     1.3   Power source     1.4   Operator type     1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (Unladen) / rear axle (Unladen)     Wheels   3.1	
1.2   Model Name     1.3   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	
1.3   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	
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	
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	
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	
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	
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)   Weels Image: State	
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 Tires type	
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	
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	
2.3 Weight on front axle (Unladen) / rear axle (Unladen)   Wheels   3.1 Tires type	
Wheels     3.1     Tires type	
3.1 Tires type	
<i>"</i>	
3.3 Number of load wheels / Size of load wheels	
3.4 Number of castor wheels	
3.4 Number of stabilizer wheels / Size of the stabilizer wheels	
3.5 Number of front wheels / rear wheels	
3.5.2 Number of drive wheels / Size of drive wheels	
3.6 Front wheel gauge	
3.7 Rear wheel gauge	
Dimensions	
4.15 Fork height in low position	
4.19 Overall length	
4.20 Length to face of forks	
4.21 Overall width	
4.22 Forks section / width / length	
4.24 Fork carriage width	
4.31 Ground clearance below mast	
4.32 Ground clearance at centre of wheelbase	
4.33 Aisle Width for pallets 1000 x 1200 crossways	
4.34 Aisle width for 800 x 1200 pallet lengthways	
4.35 Tuming radius	
4.9 Height tiller max.	
Performances	
5.1 Travel speed (laden / unladen)	
5.2 Lifting speed (laden / unladen)	
5.3 Lowering speed (laden / unladen)	
5.8 Max Gradeability (laden / unladen)	
5.10 Service brake	
Engine	
6.1 Drive motor rating S2 60 min	
6.2 Lift motor rating at \$3 15%	
6.3 Battery according to DIN 43531/35/36 A, B, C	
6.4 Battery voltage / capacity	
6.5 Battery weight (+/- 5%)	and the second
6.5 Battery weight (+/- 5%)	

ES 41	4 Created on August 30, 2025 at 8:01 PM UTC
	Metric
	Manitou
	ES 414
	Electrical - Lead
	Pedestrian
Q	1400 kg
С	600 mm
Х	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
m1	35 mm
m2	30 mm
Ast	2581 mm
Ast	2490 mm
Wa	1400 mm
h14	1050 mm
	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
	AC 65 dB
	00 GR

## 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



Head Office B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



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