

Technical sheet :

ES 614 (5PTS)



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics			Metric	
1.1	Manufacturer			Manitou
1.2	Model Name			ES 614 - 5 points
1.3	Power source			Electrical
1.4	Operator type			Pedestrian
1.5	Max. capacity	Q		1400 kg
1.6	Load center of gravity	c		600 mm
1.8	Distance from Load backrest to center of rear axle	x		687 mm
1.9	Wheelbase	y		1250 mm
Weight				
2.1	Service weight			1092 kg
2.2	Weight on front axle (laden) / rear axle (laden)			1037 kg / 1453 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)			851 kg / 240 kg
Wheels				
3.1	Tires type			Bandage
3.3	Number of load wheels / Size of load wheels			2 / 140x60
3.4	Number of stabilizer wheels / Size of the stabilizer wheels			1 / 140x60
3.5	Number of front wheels / rear wheels			3 / 4
3.5.2	Number of drive wheels / Size of drive wheels			1/230x70
3.6	Front wheel gauge	b10		529 mm
3.7	Rear wheel gauge	b11		380 mm
Dimensions				
4.15	Fork height in low position	h13		85 mm
4.19	Overall length	l1		2049 mm
4.20	Length to face of forks	l2		900 mm
4.21	Overall width	b1		800 mm
4.22	Forks section / width / length	s / e / l		60 mm / 185 mm / 1150 mm
4.24	Fork carriage width	b3		700 mm
4.32	Ground clearance at centre of wheelbase	m2		30 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast		2464 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast		2438 mm
4.35	Turning radius	Wa		1614 mm
4.9	Height tiller min. / max.	h14 / h14		750 mm / 1250 mm
Performances				
5.1	Travel speed (laden / unladen)			4.50 km/h / 4.50 km/h
5.2	Lifting speed (laden / unladen)			0.18 m/s / 0.30 m/s
5.3	Lowering speed (laden / unladen)			0.27 m/s / 0.22 m/s
5.8	Max Gradeability (laden / unladen)			7 % / 10 %
5.10	Service brake			Electro magnetic
Engine				
6.1	Drive motor rating S2 60 min			1.50 kW
6.2	Lift motor rating at S3 15%			3 kW
6.3	Battery according to DIN 43531/35/36 A, B, C			DIN 43535-B
6.4	Battery voltage / capacity			24 V / 180 Ah
6.5	Battery weight (+/- 5%)			189 kg
Miscellaneous				
8.1	Type of drive control			AC
8.4	Sound level at the driver's ear according to DIN 12 053			65 dB

ES 614 (5pts) - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	1505	1755
h4 - Mast extended height	mm	1944	2194
Residual capacity at max height	kg	1400	1400

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1930	2180	2380
h3 - Mast lifting height	mm	2935	3435	3835
h4 - Mast extended height	mm	3374	3874	4274
Residual capacity at max height	kg	1050	800	500

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	2930	3430
h4 - Mast extended height	mm	3369	3869
Residual capacity at max height	kg	1050	800

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	mm	1889
h2 - Mast free lift	mm	1465
h3 - Mast lifting height	mm	4245
h4 - Mast extended height	mm	4701
Residual capacity at max height	kg	400



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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