Technical sheet :



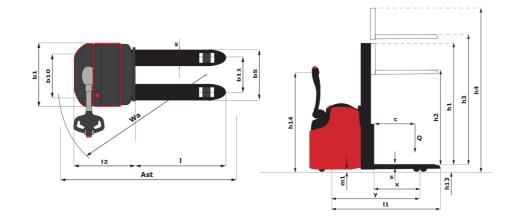




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			ES 614 Created on	April 24, 2024 at 6:19:11
	Technical characteristics		Metric	Imperial
	Manufacturer		Manitou	Manitou
	Model Name		ES 614	ES 614
	Power source		Electrical	Electrical
	Operator type		Pedestrian	Pedestrian
	Max. capacity	Q	1400 kg	3086 lb
	Load center of gravity	С	600 mm	24 in
	Distance from Load backrest to center of rear axle	x	687 mm	27 in
	Wheelbase	у	1250 mm	49 in
	Weight			
	Service weight		1092 kg	2407 lb
	Weight on front axle (laden) / rear axle (laden)		1037 kg / 1453 kg	2286 lb / 3203 lb
	Weight on front axle (Unladen) / rear axle (Unladen)		851 kg / 240 kg	1876 lb / 529 lb
	Wheels			
	Tires type		Bandage	Bandage
	Number of load wheels / Size of load wheels		2 / 82x68	2 / 82x68
	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 140x60	1 / 140x60
	Number of front wheels / rear wheels		2 / 4	2 / 4
	Number of drive wheels / Size of drive wheels		1/230x70	1/230x70
	Front wheel gauge	b10	529 mm	21 in
	Rear wheel gauge	b11	380 mm	15 in
	Dimensions			
	Fork height in low position	h13	85 mm	3 in
	Overall length	1	1910 mm	75 in
	Length to face of forks	12	761 mm	30 in
	Overall width	b1	800 mm	31 in
	Forks section / width / length	s / e / l	60 mm / 185 mm / 1150 mm	2 in / 7 in / 45 in
	Fork carriage width	b3	700 mm	28 in
	Ground clearance at centre of wheelbase	m2	30 mm	1 in
	Aisle Width for pallets 1000 x 1200 crossways	Ast	2464 mm	97 in
	Aisle width for 800 x 1200 pallet lengthways	Ast	2438 mm	96 in
	Turning radius	Wa	1588 mm	63 in
	Height tiller min. / max.	h14 / h14	750 mm / 1250 mm	30 in / 49 in
	Performances			
	Travel speed (laden / unladen)		6 km/h / 6 km/h	4 mph / 4 mph
	Lifting speed (laden / unladen)		0.18 m/s / 0.30 m/s	0.59 ft/s / 0.98 ft/s
	Lowering speed (laden / unladen)		0.27 m/s / 0.22 m/s	0.89 ft/s / 0.72 ft/s
	Max Gradeability (laden / unladen)		7 % / 10 %	7 % / 10 %
	Service brake		Electro magnetic	Electro magnetic
	Engine			
	Drive motor rating S2 60 min		1.50 kW	1.50 kW
	Lift motor rating at S3 15%		3 kW	3 kW
	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B	DIN 43535-B
	Battery voltage / capacity		24 V / 180 Ah	24 V / 180 Ah
	Battery weight (+/- 5%)		189 kg	417 lb
	Miscellaneous			
1	Type of drive control		AC	AC
	Sound level at the driver's ear according to DIN 12 053		65 dB	65 dB

ES 614 - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	in (mm)	76 (1930)	85.8 (2180)
h2 - Mast free lift	in (mm)	59.3 (1505)	69.1 (1755)
h3 - Mast lifting height	in (mm)	59.3 (1505)	69.1 (1755)
h4 - Mast extended height	in (mm)	76.5 (1944)	86.4 (2194)
Residual capacity at max height	lb (kg)	3086 (1400)	3086 (1400)

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	in (mm)	76 (1930)	85.8 (2180)	93.7 (2380)
h3 - Mast lifting height	in (mm)	115.6 (2935)	135.2 (3435)	151 (3835)
h4 - Mast extended height	in (mm)	132.8 (3374)	152.5 (3874)	168.3 (4274)
Residual capacity at max height	lb (kg)	2976 (1350)	2425 (1100)	1984 (900)

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	in (mm)	76 (1930)	85.8 (2180)
h2 - Mast free lift	in (mm)	59.3 (1505)	69.1 (1755)
h3 - Mast lifting height	in (mm)	115.4 (2930)	135 (3430)
h4 - Mast extended height	in (mm)	132.6 (3369)	152.3 (3869)
Residual capacity at max height	lb (kg)	2976 (1350)	2425 (1100)

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	in (mm)	74.4 (1889)	80.7 (2049)	90.6 (2300)
h2 - Mast free lift	in (mm)	57.7 (1465)	64 (1625)	73.8 (1875)
h3 - Mast lifting height	in (mm)	167.1 (4245)	186 (4725)	214.8 (5455)
h4 - Mast extended height	in (mm)	185.1 (4701)	204 (5181)	231.5 (5880)
Residual capacity at max height	lb (kg)	1543 (700)	1213 (550)	1102 (500)



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