Technical sheet :

## ES 616 5 POINTS





## ES 616 5 POINTS Created on April 17, 2024 at 5:38:33 AM UTC

Technical characteristics		Metric	Imperial
Manufacturer		Manitou	Manitou
Model Name		ES 616 (5 pts)	ES 616 (5 pts)
Power source		Electrical	Electrical
Operator type		Pedestrian	Pedestrian
Max. capacity	Q	1600 kg	3527 lb
Load center of gravity	С	600 mm	24 in
Distance from Load backrest to center of rear axle	х	687 mm	27 in
Wheelbase	у	1250 mm	49 in
Weight			
Service weight		1090 kg	2403 lb
Weight on front axle (laden) / rear axle (laden)		1064 kg / 1620 kg	2346 lb / 3571 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 / 140x60	2 / 140x60
Number of stabilizer wheels / Size of the stabilizer wheels		1 / 140x60	1 / 140x60
Number of front wheels / rear wheels		3 / 4	3 / 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	11	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
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		9	
Type of drive control		AC	AC
Sound level at the driver's ear according to DIN 12 053		65 dB	65 dB

## 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)	3527 (1600)	3527 (1600)

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)	2425 (1100)	1874 (850)	1213 (550)

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)	2425 (1100)	1874 (850)

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	in (mm)	74.4 (1889)
h2 - Mast free lift	in (mm)	57.7 (1465)
h3 - Mast lifting height	in (mm)	167.1 (4245)
h4 - Mast extended height	in (mm)	185.1 (4701)
Residual capacity at max height	lb (kg)	882 (400)



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