Technical sheet:

ES 616





	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 616
1.3	Power source		Electrical
1.4	Operator type		Pedestrian
1.5	Max. capacity	0	1600 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	1252 mm
,	Weight	,	1202 11111
2.1	Service weight		1095 kg
2.2	Weight on front axle (laden) / rear axle (laden)		1065 kg / 1620 kg
2.3	Weight on front axle (Indaen) / rear axle (Unladen)		855 kg / 240 kg
2.5	Wheels		000 kg / 240 kg
3.1	Tires type		Polyurethane
3.3	Number of load wheels / Size of load wheels		24 / 82 x 68
3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 120 x 54
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels / Size of drive wheels		1/230x70
3.6		b10	529 m
3.7	Front wheel gauge		
3.7	Rear wheel gauge Dimensions	b11	380 mm
4.15		h12	85 mm
4.15 4.19	Fork height in low position	h13	85 IIIII 1910 mm
4.19	Overall length	12	761 mm
	Length to face of forks Overall width	b1	800 mm
4.21 4.22	Forks section / width / length	s / e / l	60 mm / 185 mm / 1150 mm
4.22	•		700 mm
	Fork carriage width	b3	
4.32	Ground clearance at centre of wheelbase	m2	30 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2286 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2325 mm
4.35	Turning radius	Wa	1476 mm
4.9	Height tiller min. / max.	h14 / h14	750 mm / 1250 mm
F 1	Performances		Character (Character
5.1	Travel speed (laden / unladen)		6 km/h / 6 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		4.501.W
6.1	Drive motor rating S2 60 min		1.50 kW
6.2	Lift motor rating at \$3 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 / 250 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 616 - 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	1600	1600

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 canacity at max height	kn	1350	1100	900

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	1350	1100

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	mm	1889	2049	2300
h2 - Mast free lift	mm	1465	1625	1875
h3 - Mast lifting height	mm	4245	4725	5455
h4 - Mast extended height	mm	4701	5181	5880
Residual capacity at max height	kg	700	550	500





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