

Technical sheet

ES 616

Warehousing Equipment



	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	ES 616
1.3	Type of traction	Electric
1.4	Type of operation	Stand Up
1.5	Q - Rated capacity	1600 kg
1.6	c - Center of gravity of load	600 mm
1.9	y - Wheelbase	1250 mm
	Weight	
2.1	Weight of truck in working order	874 kg
2.2	Laden weight on front/rear axle	1064 kg / 1624 kg
2.3	Unladen weight on front/rear axle	851 kg / 244 kg
	Wheels	
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Polyurethane
3.4	Size of caster wheels	1 x (140x60)
3.5	Number of front wheels (x)	2 / 2
3.6	b10 - Front track	0.53 mm
3.7	b11 - Rear track	0.38 mm
	Dimensions	
4.2	h1 - Height (mast lowered)	1930 mm
4.4	h3 - Lift height (Duplex mast)	2936 mm
4.15	h13 - Height of forks in down position	85 mm
4.19	l1 - Total length	1910 mm
4.20	l2 - Length to fork heel	761 mm
4.21	b1 - Overall width - Single/twinned wheels	800 mm / -
4.22	e / s / l - Fork dimensions	60x185x1150
4.24	b3 - Width of fork clamp	700 mm
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	2464 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	2438 mm
4.35	Wa - Turning radius	1588 mm
	Performances	
5.1	Speed of travel laden / unladen	6 km/h / 6 km/h
5.2	Lifting speed laden / unladen	0.14 m/s / 0.30 m/s
5.3	Lowering speed laden / unladen	0.29 m/s / 0.22 m/s
5.7	Maximum ramp laden / unladen	7 % / 10 %
5.10	Service brake	Electromagnetic
	Engine	
6.1	Drive motor power rating	1.50 kW
6.3	Size of battery tray as per DIN 43531/35/36, A, B, C, no	DIN 43535-B
6.4	Battery voltage/capacity	24 V / 180 Ah
7.2	Useful power	3 kW
	Miscellaneous	
8.4	Measured/guaranteed mean noise level at the ear of the operator	65 dB(A)

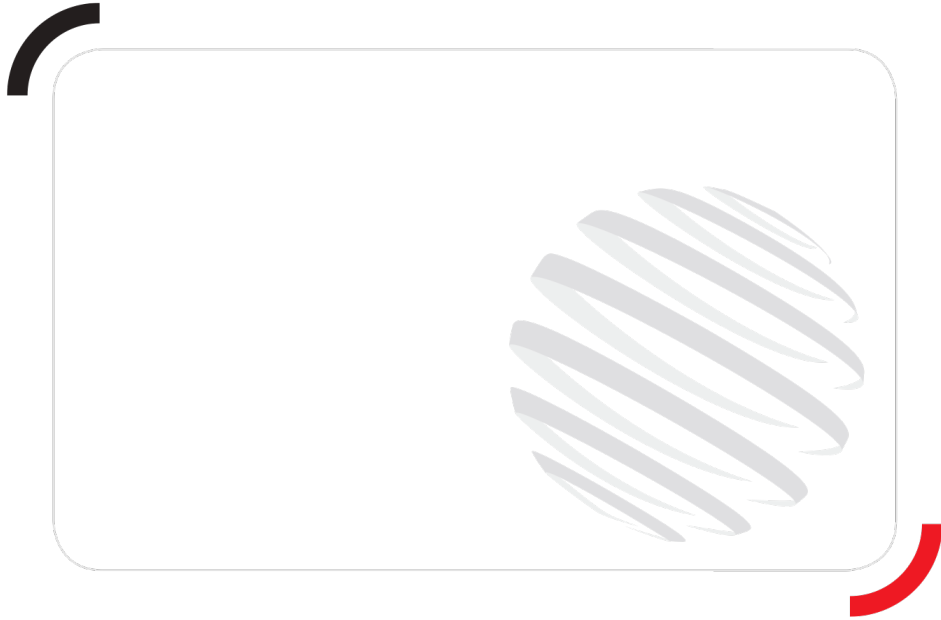
Characteristics of masts and residual capacities

Duplex Side Cylinder		FVD 29	FVD 34	FVD 38
Lift height	mm	2935	3435	3835
Height (mast lowered)	mm	1930	2180	2380
Height of extended mast	mm	3374	3874	4274
Residual Capacity without attachment (Industrial load chart)	kg	1400	1150	950

Duplex Free Lift		FLD 29	FLD 34
Lift height	mm	2930	3430
Height (mast lowered)	mm	1930	2180
Free lift	mm	1505	1755
Height of extended mast	mm	3369	3869
Residual Capacity without attachment (Industrial load chart)	kg	1400	1150

Simplex Central Cylinder		CCS 15	CCS 17
Lift height	mm	1500	1755
Height (mast lowered)	mm	1930	2180
Free lift	mm	1505	1755
Height of extended mast	mm	1944	2194
Residual Capacity without attachment (Industrial load chart)	kg	1600	1600

Triplex Free Lift		FLT 42	FLT 47	FLT 54
Lift height	mm	4245	4725	5455
Height (mast lowered)	mm	1889	2049	2300
Free lift	mm	1465	1625	1875
Height of extended mast	mm	4701	5181	5880
Residual Capacity without attachment (Industrial load chart)	kg	750	680	500



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