Technical sheet:

## ES 616 LI





			11cd off August 12, 2020 at 7.07 1 W O
1	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 616 LI
1.3 F	Power source		Electrical
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1600 kg
	oad center of gravity	C	600 mm
1.8	Distance from Load backrest to center of rear axle	Х	848 mm
1.9	Vheelbase	у	1492 mm
1	Veight		
	Service weight		1283 kg
	Veight on front axle (laden) / rear axle (laden)		1216 kg / 1660 kg
	Veight on front axle (Unladen) / rear axle (Unladen)		1033 kg / 280 kg
	Wheels		, , , , , , , , , , , , , , , , , , ,
	ires type		Polyurethane
	Number of load wheels / Size of load wheels		4 / 82 x 68
	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 120 x 54
	Number of front wheels / rear wheels		2 / 4
	Number of drive wheels / Size of drive wheels		1/230x70
	ront wheel gauge	b10	529 mm
	Rear wheel gauge	b11	380 mm
	Dimensions		
	nitial lift	h5	110 mm
	ork height in low position	h13	86 mm
	Overall length	I1	2035 mm
	ength to face of forks	12	846 mm
	Overall width	b1	800 mm
4.22 F	orks section / width / length	s / e / l	60 mm / 185 mm / 1190 mm
	ork carriage width	b3	700 m
	Ground clearance at centre of wheelbase	m2	30 mm
	Aisle Width for pallets 1000 x 1200 crossways	Ast	2520 mm
	hisle width for 800 x 1200 pallet lengthways	Ast	2435 mm
	ruming radius	Wa	1716 mm
	Height tiller min. / max.	h14 / h14	750 mm / 1250 mm
	Performances		
	ravel speed (laden / unladen)		6 km/h / 6 km/h
	ifting speed (laden / unladen)		0.18 m/s / 0.30 m/s
	owering speed (laden / unladen)		0.27 m/s / 0.22 m/s
	Max Gradeability (laden / unladen)		7 % / 10 %
	Service brake		Electro magnetic
	Engine Company of the		<u> </u>
	Drive motor rating S2 60 min		1.50 kW
	ift motor rating at S3 15%		3 kW
	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B
	Battery voltage / capacity		24 V / 180 Ah
	Battery weight (+/- 5%)		220 kg
	Miscellaneous		
	Type of drive control		AC
	Sound level at the driver's ear according to DIN 12 053		65 dB

## ES 616 LI - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1953	2203
h2 - Mast free lift	mm	1506	1756
h3 - Mast lifting height	mm	1506	1756
h4 - Mast extended height	mm	1960	2210
Residual capacity at max height	kg	1600	1600

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1953	2203	2403
h3 - Mast lifting height	mm	2936	3436	3836
h4 - Mast extended height	mm	3390	3890	4290
Residual capacity at max height	kg	1350	1100	850

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1953	2203
h2 - Mast free lift	mm	1506	1756
h3 - Mast lifting height	mm	2931	3431
h4 - Mast extended height	mm	3385	3885
Residual capacity at max height	kg	1350	1100

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	mm	1911	2071	2315
h2 - Mast free lift	mm	1466	1626	1880
h3 - Mast lifting height	mm	4246	4726	5460
h4 - Mast extended height	mm	4723	5203	5895
Residual capacity at max height	kg	670	500	450





## **Head Office**

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