

Technical sheet :

ES 616 LI (5PTS)



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		ES 616 LI 5 point
1.3	Power source		Electrical
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	3527 lb
1.6	Load center of gravity	c	24 in
1.8	Distance from Load backrest to center of rear axle	x	33 in
1.9	Wheelbase	y	59 in
	Weight		
2.1	Service weight		2926 lb
2.2	Weight on front axle (laden) / rear axle (laden)		2747 lb / 3682 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2277 lb / 639 lb
	Wheels		
3.1	Tires type		Bandage
3.3	Number of load wheels / Size of load wheels		2 / 140x60
3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 140x60
3.5	Number of front wheels / rear wheels		2 / 4
3.5.2	Number of drive wheels / Size of drive wheels		1/230x70
3.6	Front wheel gauge	b10	21 in
3.7	Rear wheel gauge	b11	15 in
	Dimensions		
4.6	Initial lift	h5	4 in
4.15	Fork height in low position	h13	3 in
4.19	Overall length	l1	86 in
4.20	Length to face of forks	l2	38 in
4.21	Overall width	b1	31 in
4.22	Forks section / width / length	s / e / l	2 in / 7 in / 47 in
4.24	Fork carriage width	b3	28 in
4.32	Ground clearance at centre of wheelbase	m2	1 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	94 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	95 in
4.35	Turning radius	Wa	63 in
4.9	Height tiller min. / max.	h14 / h14	30 in / 49 in
	Performances		
5.1	Travel speed (laden / unladen)		4 mph / 4 mph
5.2	Lifting speed (laden / unladen)		0.59 ft/s / 0.98 ft/s
5.3	Lowering speed (laden / unladen)		0.89 ft/s / 0.72 ft/s
5.8	Max Gradeability (laden / unladen)		7 % / 10 %
5.10	Service brake		Electro magnetic
	Engine		
6.1	Drive motor rating S2 60 min		1.50 kW
6.2	Lift motor rating at S3 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 / 180 Ah
6.5	Battery weight (+/- 5%)		417 lb
	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 LI (5pts) - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	in	76.9	86.7
h2 - Mast free lift	in	59.3	69.1
h3 - Mast lifting height	in	59.3	69.1
h4 - Mast extended height	in	77.2	87
Residual capacity at max height	lb	3527	3527

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	in	76.9	86.7
h2 - Mast free lift	in	59.3	69.1
h3 - Mast lifting height	in	115.4	135.1
h4 - Mast extended height	in	133.3	153
Residual capacity at max height	lb	2866	2205

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	in	75.2
h2 - Mast free lift	in	57.7
h3 - Mast lifting height	in	167.2
h4 - Mast extended height	in	185.9
Residual capacity at max height	lb	1323



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