

Technical sheet :

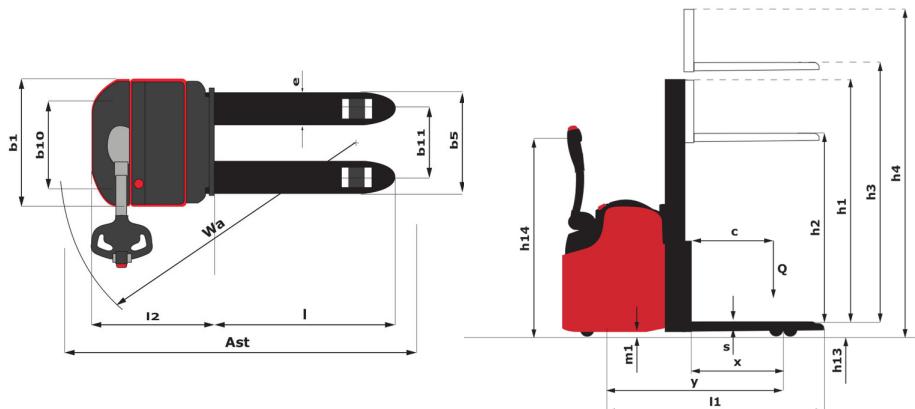
# **ES 616 LI (5PTS)**



 **MANITOU**  
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Technical characteristics		Metric	
1.1	Manufacturer	Manitou	
1.2	Model Name	ES 616 LI (5pts)	
1.3	Power source	Electrical - Lead	
1.4	Operator type	Pedestrian	
1.5	Max. capacity	1600 kg	
1.6	Load center of gravity	600 mm	
1.8	Distance from Load backrest to center of rear axle	729 mm	
1.9	Wheelbase	1393 mm	
<b>Weight</b>			
2.1	Service weight	1280 kg	
2.2	Weight on front axle (laden) / rear axle (laden)	1070 kg / 1855 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	905 kg / 375 kg	
<b>Wheels</b>			
3.1	Tires type	Polyurethane cushion	
3.3	Number of load wheels / Size of load wheels	4 / 82 x 68	
3.4	Number of stabilizer wheels / Size of the stabilizer wheels	2 / 120 x 54	
3.5	Number of front wheels / rear wheels	3 / 4	
3.5.2	Number of drive wheels / Size of drive wheels	1/230x70	
3.6	Front wheel gauge	558 mm	
3.7	Rear wheel gauge	380 mm	
<b>Dimensions</b>			
4.15	Fork height in low position	86 mm	
4.19	Overall length	1995 mm	
4.20	Length to face of forks	846 mm	
4.21	Overall width	800 mm	
4.22	Forks section / width / length	60 mm / 185 mm / 1150 mm	
4.24	Fork carriage width	700 mm	
4.32	Ground clearance at centre of wheelbase	24 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	2399 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	2402 mm	
4.6	Initial lift	110 mm	
4.35	Turning radius	1597 mm	
4.9	Height tiller min. / max.	750 mm / 1250 mm	
<b>Performances</b>			
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	
<b>Engine</b>			
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%)	220 kg	
<b>Miscellaneous</b>			
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 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

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	1300	1000

Free Lift Triplex (FLT)	FLT 42
h1 - Mast lowered height mm	1911
h2 - Mast free lift mm	1466
h3 - Mast lifting height mm	4246
h4 - Mast extended height mm	4723
Residual capacity at max height kg	600



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