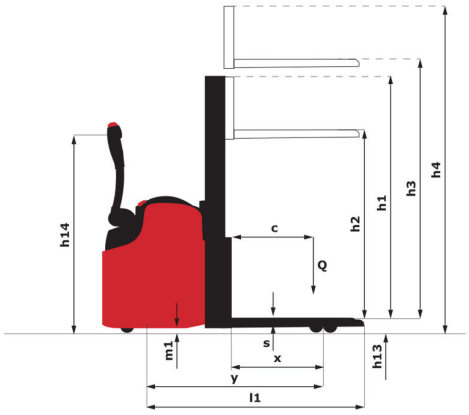
Technical sheet :

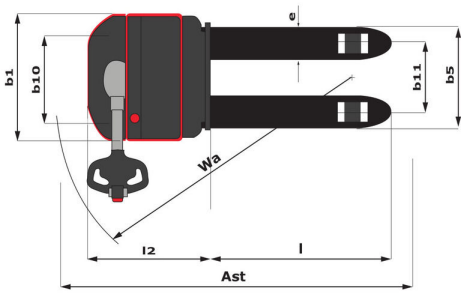
ES 616 LI (5PTS)

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 616 LI 5 point
1.3	Power source		Battery
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1600 kg
1.6	Load centre of gravity	c	600 mm
1.8	Distance from Load backrest to center of rear axle	x	848 m
	Weight		
2.1	Service weight		1327 kg
2.2	Weight on front axle (laden) / rear axle (laden)		1246 kg / 1670 kg
	Wheels		
3.5.2	Number of drive wheels / Size of drive wheels		1x230x70
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
3.6	Front wheel gauge	b10	529 mm
3.7	Rear wheel gauge	b11	380 mm
	Dimensions		
4.9	Height tiller up min. / max.	h14 / h14	750 mm / 1250 mm
4.15	Fork height in low position	h13	86 mm
4.19	Overall length	l1	2174 mm
4.20	Length to face of forks	l2	976 mm
4.21	Overall width	b1	800 mm
4.22	Forks section / width / length	s / e / l	60 mm / 185 mm / 1190 mm
4.32	Ground clearance at centre of wheelbase	m2	30 mm
	Performances		
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
5.10	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 / Batteries capacity		24 V / 180 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(A)

Dimensional drawing





Characteristics of masts and residual capacities

Central Cylinder Simplex		CCS 15	CCS 17
h3 - Mast lifting height *	mm	2935	2935
h1 - Mast height lowered	mm	1953	1953
h4 - Mast height extended	mm	3390000	3390000
Residual capacity without attachment (Industrial load chart)	kg	1600	1600

Full Visibility Duplex		FVD 29	FVD 34	FVD 38
h3 - Mast lifting height *	mm	2935	2935	2935
h1 - Mast height lowered	mm	1953	1953	1953
h4 - Mast height extended	mm	3390000	3390000	3390000
Residual capacity without attachment (Industrial load chart)	kg	1300	1000	700

Free Lift Duplex		FLD 29	FLD 34
h3 - Mast lifting height *	mm	2935	2935
h1 - Mast height lowered	mm	1953	1953
h4 - Mast height extended	mm	3390000	3390000
Residual capacity without attachment (Industrial load chart)	kg	1300	1000

Free Lift Triplex		FLT 42	FLT 47	FLT 54
h3 - Mast lifting height *	mm	2935	2935	2935
h1 - Mast height lowered	mm	1953	1953	1953
h4 - Mast height extended	mm	3390000	3390000	3390000
Residual capacity without attachment (Industrial load chart)	kg	600	470	450

Siège Social
430 rue de l'Aubinière - 44150 Ancenis Cedex - France
Tel: +33(0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97
www.manitou.com

This brochure describes versions and configuration options for Manitou products which may be fitted with different equipment. The equipment described in this brochure may be standard, optional or not available depending on version. Manitou reserves the right to change the specifications shown and described at any time and without prior warning. The manufacturer is not liable for the specifications given. For more information, contact your Manitou dealer. Non-contractual document. Product descriptions may differ from actual products. List of specifications is not comprehensive. The logos and visual identity of the company are the property of Manitou and may not be used without authorisation. All rights reserved. The photos and diagrams contained in thisbrochure are provided for information only.
MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes