Technical sheet :



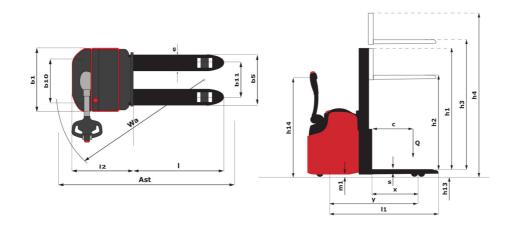




ES 616 LI Created on April 19, 2024 at 5:13:35 PM UTC
-------------------------------------------------------

			ES 616 LI Created on A	Apili 19, 2024 at 5.15.50
Те	chnical characteristics		Metric	Imperial
Ma	inufacturer		Manitou	Manitou
Мс	del Name		ES 616 LI	ES 616 LI
Po	wer source		Electrical	Electrical
Op	erator type		Pedestrian	Pedestrian
Ma	ix. capacity	Q	1600 kg	3527 lb
Lo	ad center of gravity	С	600 mm	24 in
Dis	stance from Load backrest to center of rear axle	х	848 mm	33 in
Wh	eelbase	У	1492 mm	59 in
We	light			
	rvice weight		1327 kg	2926 lb
We	ight on front axle (laden) / rear axle (laden)		1246 kg / 1670 kg	2747 lb / 3682 lb
	ight on front axle (Unladen) / rear axle (Unladen)		1033 kg / 290 kg	2277 lb / 639 lb
	neels			
	es type		Bandage	Bandage
	mber of load wheels / Size of load wheels		2 / 140x60	2 / 140x60
	mber of stabilizer wheels / Size of the stabilizer wheels		1 / 140x60	1 / 140x60
	mber of front wheels / rear wheels		2/4	2/4
	mber of drive wheels / Size of drive wheels		1/230x70	1/230x70
	ont wheel gauge	b10	529 mm	21 in
	ar wheel gauge	b11	380 mm	15 in
	mensions	511		10 11
	tial lift	h5	110 mm	4 in
	rk height in low position	h13	86 mm	3 in
	erall length	1	2174 mm	86 in
	ngth to face of forks	12	976 mm	38 in
	erall width	b1	800 mm	31 in
	rks section / width / length	s / e / l	60 mm / 185 mm / 1190 mm	2 in / 7 in / 47 in
	rk carriage width	b3	700 m	2296 ft 7 in
	bund clearance at centre of wheelbase	m2	30 mm	1 in
	sle Width for pallets 1000 x 1200 crossways	Ast	2520 mm	99 in
	sle width for 800 x 1200 pallet lengthways	Ast	2435 mm	96 in
	ming radius	Wa	1588 mm	63 in
	•	h14 /		
He	ight tiller min. / max.	h14	750 mm / 1250 mm	30 in / 49 in
Pe	formances			
Tra	ivel speed (laden / unladen)		6 km/h / 6 km/h	4 mph / 4 mph
	ting speed (laden / unladen)		0.18 m/s / 0.30 m/s	0.59 ft/s / 0.98 ft/
	wering speed (laden / unladen)		0.27 m/s / 0.22 m/s	0.89 ft/s / 0.72 ft/
	x Gradeability (laden / unladen)		7 % / 10 %	7 % / 10 %
	rvice brake		Electro magnetic	Electro magnetic
	gine			
	ve motor rating S2 60 min		1.50 kW	1.50 kW
Lif	t motor rating at S3 15%		3 kW	3 kW
Ba	ttery according to DIN 43531/35/36 A, B, C		DIN 43535-B	DIN 43535-B
Ba	ttery voltage / capacity		24 V / 180 Ah	24 V / 180 Ah
Ba	ttery weight (+/- 5%)		189 kg	417 lb
Mi	scellaneous			
Ту	be of drive control		AC	AC
So	und level at the driver's ear according to DIN 12 053		65 dB	65 dB

## ES 616 LI - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
n1 - Mast lowered height	in (mm)	76.9 (1953)	86.7 (2203)
2 - Mast free lift	in (mm)	59.3 (1506)	69.1 (1756)
3 - Mast lifting height	in (mm)	59.3 (1506)	69.1 (1756)
n4 - Mast extended height	in (mm)	77.2 (1960)	87 (2210)
Residual capacity at max height	lb (kg)	3527 (1600)	3527 (1600)
ull Visibility Duplex (FVD)		FVD 29	FVD 34

Full visibility buplex (FVD)		FVD 29	FVD 34	FVD 30
h1 - Mast lowered height in (mm)		76.9 (1953)	86.7 (2203)	94.6 (2403)
h3 - Mast lifting height	in (mm)	115.6 (2936)	135.3 (3436)	151 (3836)
h4 - Mast extended height	in (mm)	133.5 (3390)	153.1 (3890)	168.9 (4290)
Residual capacity at max height	lb (kg)	2976 (1350)	2425 (1100)	1874 (850)

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	in (mm)	76.9 (1953)	86.7 (2203)
h2 - Mast free lift	in (mm)	59.3 (1506)	69.1 (1756)
h3 - Mast lifting height	in (mm)	115.4 (2931)	135.1 (3431)
h4 - Mast extended height	in (mm)	133.3 (3385)	153 (3885)
Residual capacity at max height	lb (kg)	2976 (1350)	2425 (1100)

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	in (mm)	75.2 (1911)	81.5 (2071)	91.1 (2315)
h2 - Mast free lift	in (mm)	57.7 (1466)	64 (1626)	74 (1880)
h3 - Mast lifting height	in (mm)	167.2 (4246)	186.1 (4726)	215 (5460)
h4 - Mast extended height	in (mm)	185.9 (4723)	204.8 (5203)	232.1 (5895)
Residual capacity at max height	lb (kg)	1477 (670)	1102 (500)	992 (450)



Head Office B.P. 249 - 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 publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes