Technical sheet:

## ES 616 5 POINTS





		ES 616 S PUIN IS Cleated	JOH NOVEHIDEL 6, 2025 at 11.56 AIVI U
	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 616 5 points
1.3	Power source		Electrical - Lead
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1600 kg
1.6	Load center of gravity	C	600 mm
1.8	Distance from Load backrest to center of rear axle	X	687 mm
1.9	Wheelbase	у	1272 mm
	Weight		
2.1	Service weight		1225 kg
2.2	Weight on front axle (laden) / rear axle (laden)		820 kg / 2005 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		795 kg / 430 kg
	Wheels		
3.1	Tires type		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		1/230 x 70
3.6	Front wheel gauge	b10	558 mm
3.7	Rear wheel gauge	b11	380 mm
0.7	Dimensions	311	555
4.15	Fork height in low position	h13	85 mm
4.19	Overall length	l1	1910 mm
4.20	Length to face of forks	12	761 mm
4.21	Overall width	b1	800 mm
4.22	Forks section / width / length	s / e / l	60 mm / 185 mm / 1150 mm
4.24	Fork carriage width	b3	700 mm
4.32	Ground clearance at centre of wheelbase	m2	30 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2286 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2325 mm
4.35	Tuming radius	Wa	1476 mm
4.9	Height tiller min. / max.	h14 / h14	750 mm / 1250 mm
4.5	Performances	11147 1114	730 11111 / 1230 11111
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
3.10	Engine		Liecuo magnetic
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 / 250 Ah
6.5	Battery weight (+/- 5%)		24 V / 250 All 220 kg
0.0	Miscellaneous		220 kg
0 1			AC
8.1	Type of drive control  Sound level at the driver's ear according to DIN 12 053		65 dB

## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	1505	1755
h4 - Mast extended height	mm	1944	2194
Residual capacity at max height	kg	1600	1600

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1930	2180	2380
h3 - Mast lifting height	mm	2935	3435	3835
h4 - Mast extended height	mm	3374	3874	4274
Residual capacity at max height	ka	1100	850	550

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	2930	3430
h4 - Mast extended height	mm	3369	3869
Residual capacity at max height	kg	1100	850

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	mm	1889
h2 - Mast free lift	mm	1465
h3 - Mast lifting height	mm	4245
h4 - Mast extended height	mm	4701
Residual capacity at max height	kg	400





## **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