Technical sheet :







	Technical characteristics
1.1	Manufacturer
1.2	Model Name
1.3	Power source
1.4	Operator type
1.5	Max. capacity
1.6	Load center of gravity
1.8	Distance from Load backrest to center of rear axle
1.9	Wheelbase
	Weight
2.1	Service weight
2.2	Weight on front axle (laden) / rear axle (laden)
2.3	Weight on front axle (Unladen) / rear axle (Unladen)
	Wheels
3.1	Tires type
3.3	Number of load wheels / Size of load wheels
3.4	Number of stabilizer wheels / Size of the stabilizer wheels
3.5	Number of front wheels / rear wheels
3.5.2	Number of drive wheels / Size of drive wheels
3.6	Front wheel gauge
3.7	Rear wheel gauge
	Dimensions
4.15	Fork height in low position
4.19	Overall length
4.20	Length to face of forks
4.21	Overall width
4.22	Forks section / width / length
4.24	Fork carriage width
4.32	Ground clearance at centre of wheelbase
4.33	Aisle Width for pallets 1000 x 1200 crossways
4.34	Aisle width for 800 x 1200 pallet lengthways
4.35	Turning radius
4.9	Height tiller min. / max.
	Performances
5.1	Travel speed (laden / unladen)
5.2	Lifting speed (laden / unladen)
5.3	Lowering speed (laden / unladen)
5.8	Max Gradeability (laden / unladen)
5.10	Service brake
	Engine
6.1	Drive motor rating S2 60 min
6.2	Lift motor rating at \$3 15%
6.3	Battery according to DIN 43531/35/36 A, B, C
6.4	Battery voltage / capacity
6.5	Battery weight (+/- 5%)
	Miscellaneous
8.1	Type of drive control
8.4	Sound level at the driver's ear according to DIN 12 053

Metric
Manitou
ES 616
Electrical
Pedestrian
1600 kg
600 mm
687 mm
1250 mm
1327 kg
1064 kg / 1620 kg
851 kg / 240 kg
Bandage
2 / 140x60
1 / 140x60
2 / 2
1/230x70
529 m
380 mm
0 <i>5</i>
85 mm
1910 mm 761 mm
800 mm
60 mm / 185 mm / 1150 mm
700 mm
30 mm
2464 mm
2438 mm
1588 mm
750 mm / 1250 mm
, , , , , , , , , , , , , , , , , , , ,
6 km/h / 6 km/h
0.18 m/s / 0.30 m/s
0.27 m/s / 0.22 m/s
7 % / 10 %
Electro magnetic
1.50 kW
3 kW
DIN 43535-B
24 V / 180 Ah
189 kg
AC
65 dB

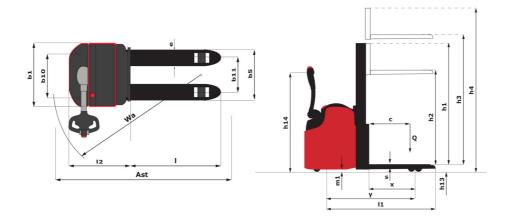
**ES 616** Created on May 13, 2024 at 8:55:44 PM UTC

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h13 11 12 b1 s / e / l b3 m2 Ast Ast Wa h14 / h14

## ES 616 - Dimensional drawing



## 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	kg	1350	1100	900

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	1350	1100

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	mm	1889	2049	2300
h2 - Mast free lift	mm	1465	1625	1875
h3 - Mast lifting height	mm	4245	4725	5455
h4 - Mast extended height	mm	4701	5181	5880
Residual capacity at max height	kg	700	550	500



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