Technical sheet:

## **ER 16 HD**



		ER IOND OIL	ER 16 HD Orcated on August 30, 2023 at 0.011 Wit			
	Technical characteristics		Metric			
1.1	Manufacturer		MANITOU			
1.2	Model Name		ER 16 HD			
1.3	Power source		Electrical - Lead			
1.4	Operator type		Seated			
1.5	Max. capacity	Q	1600 kg			
1.6	Load center of gravity	С	600 mm			
1.8	Load distance, centre of drive axle to fork	х	306 mm			
1.9	Wheelbase	у	1420 mm			
	Weight					
2.1	Service weight		4150 kg			
	Wheels					
3.1	Tires type		Vulkollan			
3.5.2	Number of drive wheels - Size of drive wheels		1 x 355 x 155			
3.3	Number of load wheels - Size of load wheels		2 x 230 x 105			
3.5	Number of front wheels / rear wheels		1/2			
3.6	Front wheel gauge	b10	0 mm			
3.7	Rear wheel gauge	b11	1128 mm			
	Dimensions					
4.8	Seat height/stand height	h7	1077 mm			
4.19	Overall length	l1	2485 mm			
4.20	Length to face of forks	12	1335 mm			
4.21	Overall width	b1	1270 mm			
4.22	Forks section / width / length	s / e / l	40 mm x 100 mm / 1150 mm			
4.23	Fork carriage ISO 2328 (class/form) A/B		2A			
4.26	Distance between wheel arms/loading surfaces	b4	903 mm			
4.25.1	Width over forks min. / max.	b5	316 mm / 697 mm			
4.32	Ground clearance at centre of wheelbase	m2	70 mm			
4.33	Aisle width for 1000 x 1200 pallet lengthways		2758 mm			
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2820 mm			
4.35	Turning radius	Wa	1640 mm			
4.7	Height of overhead guard (cabin)	h6	2205 mm			
	Performances					
5.1	Travel speed (laden / unladen)		14.30 km/h / 14.50 km/h			
5.2	Lifting speed (laden / unladen)		0.47 m/s / 0.67 m/s			
5.3	Lowering speed (laden / unladen)		0.52 m/s / 0.50 m/s			
5.4.1	Reach speed (with load / without load)		0.20 m/s / 0.20 m/s			
5.7	Gradeability (laden / unladen)		15.20 % / 11 %			
5.10	Service brake		Electric			
	Engine					
6.1	Drive motor rating S2 60 min		7.20 kW			
6.2	Lift motor rating at S3 15%		15 kW			
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43531 C			
6.4	Battery voltage / capacity		48 V / 620 Ah			
6.5	Battery weight (+/- 5%)		920 kg			
	Miscellaneous					
8.1	Type of drive control		Electronic			
8.3	Oil flow rate for attachments		25 l/min			
8.4	Sound level at the driver's ear according to DIN 12 053		60.80 dB			
0.4	Sound level at the universited according to DIN 12 003		00.80 UB			

## ER 16 HD - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 64	FLT 71	FLT 76	FLT 81	FLT 85	FLT 90	FLT 96	FLT 102	FLT 109
α - Mast/fork carriage tilt, forward	۰	3	3	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	۰	1	1	1	1	1	1	1	1	1
h1 - Mast lowered height	mm	2957	3190	3357	3523	3673	3823	4040	4240	440
h2 - Mast free lift	mm	2400	2650	2800	2900	3100	3200	3500	3700	3900
h3 - Mast lifting height	mm	6350	7050	7550	8050	8500	8950	9600	10200	10800
h4 - Mast extended height	mm	6930	7630	8130	8630	9080	9530	10180	10780	11380
Residual capacity with integrated side shift at max heigth	kg	1600	1600	1400	1300	1150	1000	800		





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