

Technical sheet :

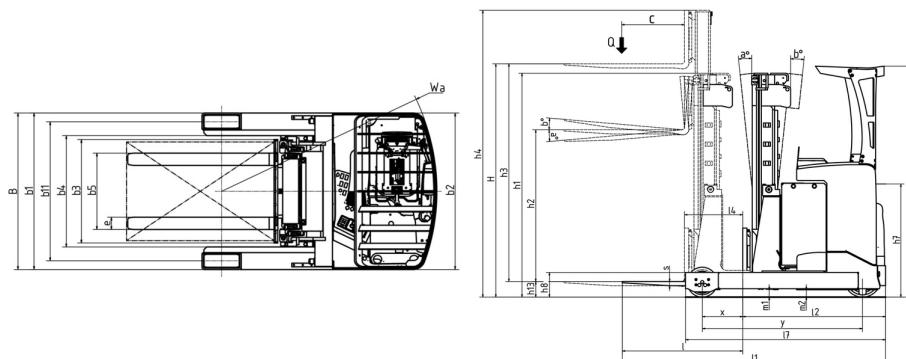
# ER 16 HD



 **MANITOU**  
HANDLING YOUR WORLD

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	1600 kg	
1.6	Load center of gravity	600 mm	
1.8	Load distance, centre of drive axle to fork	306 mm	
1.9	Wheelbase	1420 mm	
Weight		Weight	
2.1	Service weight	4150 kg	
Wheels		Wheels	
3.1	Tires type	Polyurethane cushion	
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	0 mm	
3.7	Rear wheel gauge	1128 mm	
Dimensions		Dimensions	
4.8	Seat height/stand height	1077 mm	
4.19	Overall length	2485 mm	
4.20	Length to face of forks	1335 mm	
4.21	Overall width	1270 mm	
4.22	Forks section / width / length	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	903 mm	
4.25.1	Width over forks min. / max.	316 mm / 697 mm	
4.32	Ground clearance at centre of wheelbase	70 mm	
4.33	Aisle width for 1000 x 1200 pallet lengthways	2758 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	2820 mm	
4.35	Turning radius	1640 mm	
4.7	Height of overhead guard (cabin)	2205 mm	
Performances		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		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		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	

## 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	°	3	3	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	°	1	1	1	1	1	1	1	1
h1 - Mast lowered height	mm	2957	3190	3357	3523	3673	3823	4040	4240
h2 - Mast free lift	mm	2400	2650	2800	2900	3100	3200	3500	3700
h3 - Mast lifting height	mm	6350	7050	7550	8050	8500	8950	9600	10200
h4 - Mast extended height	mm	6930	7630	8130	8630	9080	9530	10180	10780
Residual capacity with integrated side shift at max height	kg	1600	1600	1400	1300	1150	1000	800	



# **MANITOU** HANDLING YOUR WORLD

## 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](http://www.manitou.com)



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