
Technical sheet

ER 20 HD

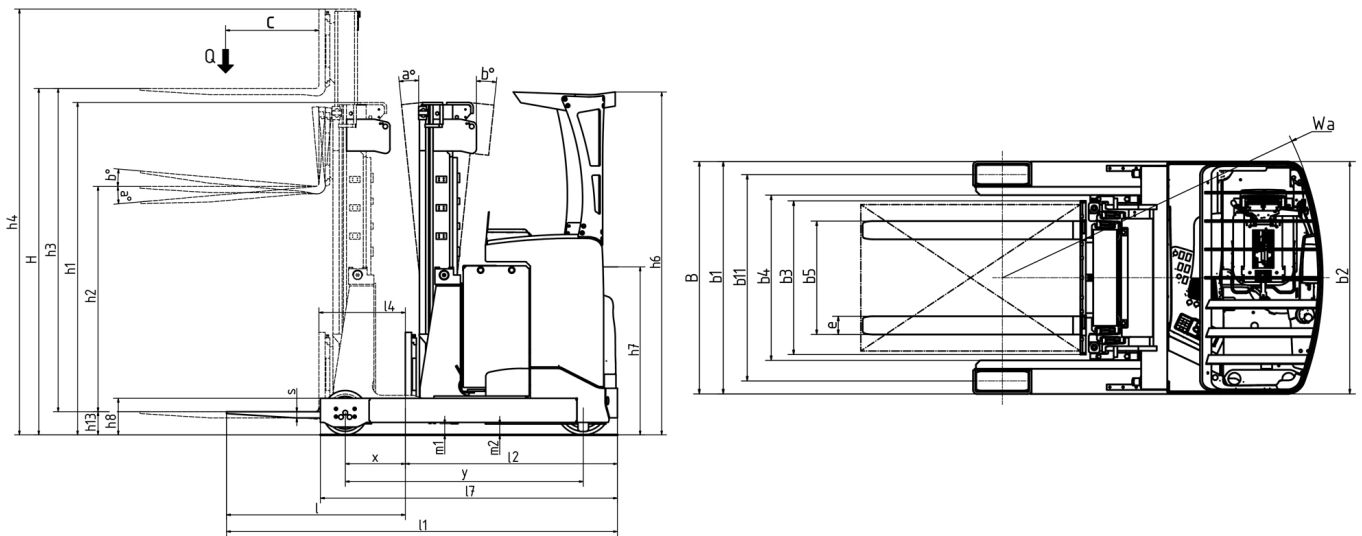
Warehousing Equipment



 **MANITOU**
HANDLING YOUR WORLD

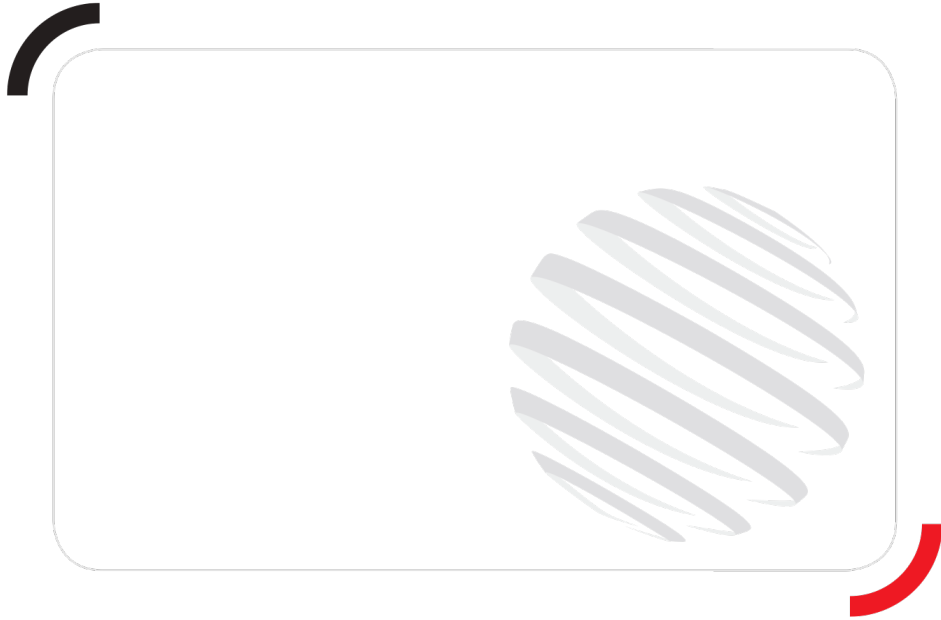
	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	ER 20 HD
1.3	Type of traction	Electric
1.4	Type of operation	Seated
1.5	Q - Rated capacity	2000 kg
1.6	c - Center of gravity of load	600 mm
1.9	y - Wheelbase	1530 mm
Weight		
2.1	Weight of truck in working order	4150 kg
2.3	Unladen weight on front/rear axle	2400 kg / 1750 kg
Wheels		
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Cellular solid cushion
3.2	Size of front wheels	355 x 155
3.3	Size of rear wheels	285 x 105
3.5	Number of front wheels (x)	1x / 2
3.6	b10 - Front track	0 mm
3.7	b11 - Rear track	1128 mm
Dimensions		
4.1	α / β - Front/Rear mast angle	1 ° / 3 °
4.2	h1 - Height (mast lowered)	2960 mm
4.3	h2 - Free lift	2420 mm
4.4	h3 - Lift height (Duplex mast)	6350 mm
4.5	h4 - Height of extended mast	6930 mm
4.7	h6 - Height of driver protection (cab)	2200 mm
4.8	h7 - Height of seat	1080 mm
4.19	l1 - Total length	2490 mm
4.20	l2 - Length to fork heel	1340 mm
4.21	Overall length - Single/twinned wheels	1397 mm / -
4.22	e / s / l - Fork dimensions	40 x 100 x 1150
4.23	Fork carriage to DIN 15173 A/B	2A
4.24	b3 - Width of fork clamp	830 mm
4.31	m1 - Ground clearance under mast	71 mm
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	2790 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	2830 mm
4.35	Wa - Turning radius	1750 mm
Performances		
5.1	Speed of travel laden / unladen	14.30 km/h / 14.50 km/h
5.2	Lifting speed laden / unladen	0.37 m/s / 0.63 m/s
5.3	Lowering speed laden / unladen	0.55 m/s / 0.43 m/s
5.7	Maximum ramp laden / unladen	6.30 % / 9.40 %
5.10	Service brake	Electromagnetic
Engine		
6.1	Drive motor power rating	7.20 kW
6.2	Lift motor power	15 kW
6.4	Battery voltage/capacity	48 V / 620 Ah
Miscellaneous		
8.1	Type of drive unit	Electronic
8.2	Working hydraulic pressure for attachments	150 bar
8.3	Oil flow rate for attachments	25 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator	60.80 dB(A)

Dimensional drawings



Characteristics of masts and residual capacities

Triplex Free Lift		TLL64	TLL71	TLL76	TLL81	TLL85	TLL90	TLL96	TLL10	TLL11	TLL115
Lift height - h3	mm	6350	7050	7550	8050	8500	8950	9600	10200	10800	11500
Height (mast lowered) - h1	mm	2957	3190	3357	3523	3673	3823	4040	4240	4440	4673
Free lift - h2	mm	2400	2650	2800	2980	3100	3280	3500	3700	3900	4100
Height of extended mast - h4	mm	6930	7630	8130	8630	9080	9530	10180	10780	11380	12080
Residual capacity with integrated TLD	kg	1600	1600	1400	1300	1150	1000	800			
Forward/backward mast tilt angle	°	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1			



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