

Technical sheet :

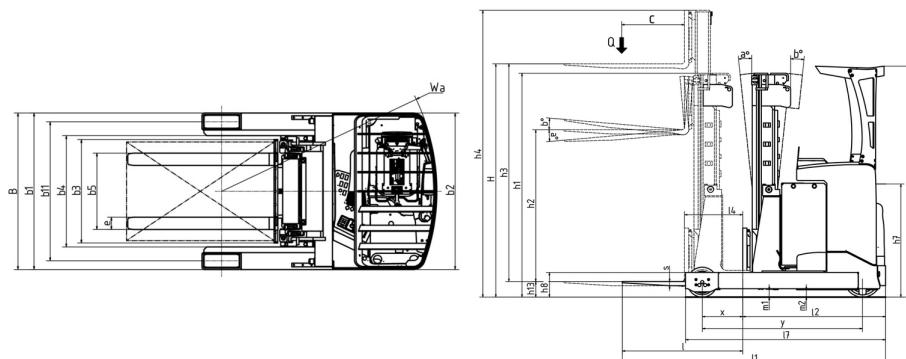
ER 20



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer	MANITOU	
1.2	Model Name	ER 20	
1.3	Power source	Electrical - Lead	
1.4	Operator type	Seated	
1.5	Max. capacity	2000 kg	
1.6	Load center of gravity	600 mm	
1.8	Load distance, centre of drive axle to fork	441 mm	
1.9	Wheelbase	1530 mm	
Weight		Weight	
2.1	Service weight	3740 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 285 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	2460 mm	
4.20	Length to face of forks	1310 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	2770 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	2808 mm	
4.35	Turning radius	1750 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)	0.37 m/s / 0.63 m/s	
5.3	Lowering speed (laden / unladen)	0.55 m/s / 0.43 m/s	
5.4.1	Reach speed (with load / without load)	0.20 m/s / 0.20 m/s	
5.7	Gradeability (laden / unladen)	6.90 % / 10.20 %	
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 20 - Dimensional drawing



Characteristics of masts and residual capacities

Free Lift Triplex (FLT)	FLT 48	FLT 54	FLT 57	FLT 63	FLT 68	FLT 73	FLT 80	FLT 85	FLT 90
α - Mast/fork carriage tilt, forward	°	3	3	3	3	3	3	3	3
β - Mast/fork carriage tilt, backward	°	1	1	1	1	1	1	1	1
h1 - Mast lowered height	mm	2140	2340	2640	2790	2957	3040	3190	3357
h2 - Mast free lift	mm	16001	1800	1900	2100	2250	2400	2650	2800
h3 - Mast lifting height	mm	4800	5400	5700	6300	6750	7250	7950	8450
h4 - Mast extended height	mm	5380	5980	6880	7330	7830	8080	8530	9030
Residual capacity with integrated side shift at max height	kg	2000	2000	2000	1850	1600			



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