

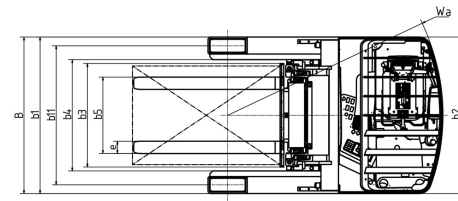
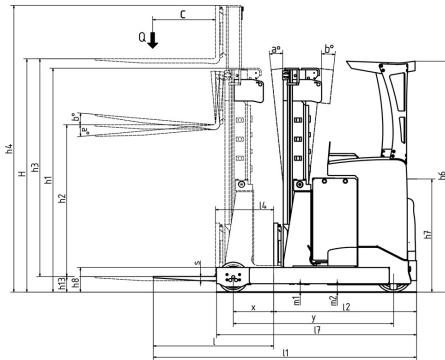
Technical sheet :

ER 20



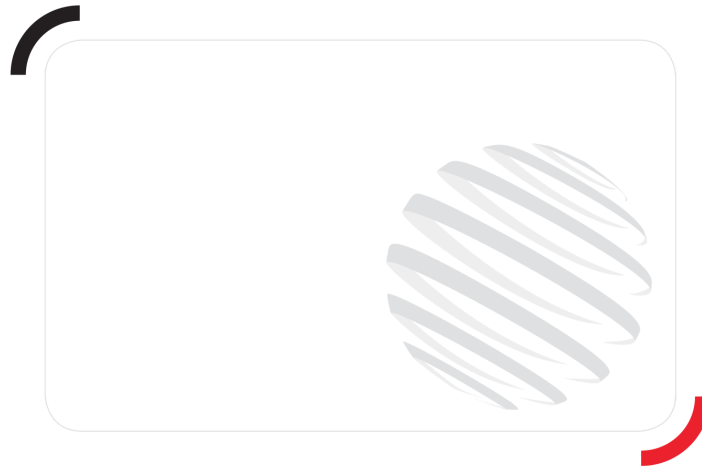
	Technical characteristics		Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		ER 20
1.3	Power source		Battery
1.4	Operator type		Seated
1.5	Max. capacity	Q	2000 kg
1.6	Load centre of gravity	c	600 mm
1.8	Load distance, centre of drive axle to fork	x	441 mm
1.9	Wheelbase	y	1530 mm
	Weight		
2.1	Service weight		3740 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2290 kg / 1450 kg
	Wheels		
3.1	Tyres type		Vulkollan
3.5.2	Number of drive wheels - Size of drive wheels		1 x 355*155
3.3	Number of load wheels - Size of load wheels		2 x 28*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		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	1 / 3
4.7	Height of overhead guard (cabin)	h6	2205 mm
4.7	Overall height of standard overhead guard	h6	2205 mm
4.8	Seat height/stand height	h7	1077 mm
4.19	Overall length	l1	2460 mm
4.20	Length to face of forks	l2	1310 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
4.24	Fork carriage width	b3	830 mm
4.25.1	Width over forks min. / max.		316 mm / 697 mm
4.32	Ground clearance at centre of wheelbase	m2	70 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	55 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2770 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2808 mm
4.35	Turning radius	Wa	1750 mm
	Performances		
5.1	Travel speed (laden / unladen)		14.3 km/h / 14.5 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)		0.2 m/s / 0.2 m/s
5.7	Gradeability (laden / unladen)		6.9 % / 10.2 %
5.10	Service brake		Electric
	Engine		
6.1	Drive motor rating S2 60 min		7.2 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 / Batteries capacity		48 V / 620 Ah
6.5	Battery weight (+/- 5%)		920 kg
	Miscellaneous		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments		150 Bar
8.3	Oil flow rate for attachments		25 l/min
8.4	Sound level at the driver's ear according to DIN 12 053		60.8 dB(A)

Dimensional drawing



Characteristics of masts and residual capacities

Free Lift Triplex		FLT 48	FLT 54	FLT 57	FLT 63	FLT 68	FLT 73	FLT 80	FLT 85	FLT 90
h1 - Height mast lowered *	mm	2140	2340	2640	2790	2957	3040	3190	3357	3523
h2 - Free lift	mm	16001	1800	1900	2100	2250	2400	2650	2800	2980
h3 - Lifting Height	mm	4800	5400	5700	6300	6750	7250	7950	8450	8950
h4 - Height mast extended *	mm	5380	5980	6880	7330	7830	8080	8530	9030	9530
α / β - Mast inclination (front / rear)	°	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3
Residual capacity with integrated side shift (Industrial load chart)	kg	2000	2000	2000	1850	1600				



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