

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	Q	2000 kg
1.6	Load center 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
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	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	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
4.25.1	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		2770 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2808 mm
4.35	Turning radius	Wa	1750 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)		0.37 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			
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

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	°	1	1	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	°	4	4	4	4	4	4	4	4	4
h1 - Mast lowered height	mm	2153	2353	2453	2653	2803	2970	3203	3370	3536
h2 - Mast free lift	mm	1600	1800	1900	2100	2250	2400	2650	2800	2980
h3 - Mast lifting height	mm	4800	5400	5700	6300	6750	7250	7950	8450	8950
h4 - Mast extended height	mm	5380	5980	6880	7330	7830	8080	8530	9030	9530
Residual capacity at max height	kg	2000	2000	2000	2000	1800	1700	1400	1200	1000
Residual capacity with integrated side shift at max height	kg	2000	2000	2000	1850	1600				

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