

Technical sheet :

# **ME 320**

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Technical characteristics			Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		ME 320	ME 320
1.3	Power source		Electric	Electric
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	2000 kg	4409 lbs
1.6	Load centre of gravity	c	500 mm	19.685 in
1.8	Load distance, centre of drive axle to fork	x	355 mm	13.976 in
1.9	Wheelbase	y	1465 mm	57.677 in
Weight				
2.1	Service Weight		3470 kg	7650 lbs
2.2	Weight on front axle (laden) / rear axle (laden)		4750 kg / 720 kg	10472 lbs / 1587 lbs
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1530 kg / 1940 kg	3373 lbs / 4277 lbs
Wheels				
3.1	Tyres type		PPS	PPS
3.2	Dimensions of front wheels		200/50-10	200/50-10
3.3	Dimensions of rear wheels		15x4,5-8	15x4,5-8
3.5	Number of front wheels / rear wheels		2 / 1	2 / 1
3.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	910 mm	35.827 in
3.7	Rear wheel gauge	b11	175 mm	6.89 in
Dimensions				
4.1	Tilt of Mast Forward (deg) / Backward (deg)	$\alpha / \beta$	5.5 / 6.5	5.5 / 6.5
4.7	Height of overhead guard (cabin)	h6	2040 mm	80.315 in
4.8	Seat height/stand height	h7	1000 mm	39.37 in
4.12	Height of towing bar (coupling height)	h10	500 mm	19.685 in
4.19	Overall length	l1	3076 mm	121.102 in
4.20	Length to face of forks	l2	2006 mm	78.976 in
4.21	Overall width	b1	1120 mm	44.094 in
4.22	Forks section / width / length	s / e / l	40 mm x 122 mm / 1070 mm	1.575 in x 4.803 in / 42.126 in
4.23	Fork carriage ISO 2328 (class/form) A/B		FEM 2A	FEM 2A
4.24	Fork carriage width	b3	1000 mm	39.37 in
4.31	Ground clearance below mast	m1	100 mm	3.937 in
4.32	Ground clearance at centre of wheelbase	m2	110 mm	360 ft 11 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	3346 mm	10977 ft 8 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3470 mm	11384 ft 6 in
4.35	Turning radius	Wa	1660 mm	65.354 in
Performances				
5.1	Travel speed (laden / unladen)		15 km/h / 15 km/h	9.3 mph / 9.3 mph
5.2	Lifting speed (laden / unladen)		0.4 m/s / 0.45 m/s	1.31 ft/s / 1.48 ft/s
5.3	Lowering speed (laden / unladen)		0.47 m/s / 0.42 m/s	1.54 ft/s / 1.38 ft/s
5.5	Drawbar pull (Laden / Unladen)		900 daN / 930 daN	900 daN / 930 daN
5.7	Gradeability - laden / unladen		13 % / 15 %	13 % / 15 %
5.9	Service brake		Oil bath	Oil bath
Engine				

Engine				
6.1	Drive motor rating S2 60 min		2 x 9.5 kW	2 x 9.5 kW
6.2	Lift motor rating at S3 15%		8.6 kW	8.6 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43531 A	DIN43531 A
6.4	Battery / Batteries capacity		48 V / 690 Ah	48 V / 690 Ah
6.6	Energy consumption		4.7 kW/h	4.7 kW/h
	Fuel consumption according to VDI cycle		4.7 l/h	4.7 l/h
Miscellaneous				
8.1	Type of drive control		Electronic	Electronic
8.2	Working hydraulic pressure for attachments		180 Bar	12 PSI
8.3	Oil flow rate for attachments		35 l/min	35 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 70 dB(A)	< 70 dB(A)



Free Lift Triplex		FLT 40	FLT 43	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
Residual capacity without attachment (Industrial load chart)	kg	1950	1900	1800	1700	1600	1400	1300	1100
Residual capacity with integrated side shift (Industrial load chart)	kg	1950	1900	1800	1700	1600	1400	1300	1100
Residual capacity with hooked-on side shift (Industrial load chart)	kg	1800	1750	1650	1550	1450	1250	1150	950
Height at max capacity	mm	4000							
Height at max capacity with integrated sideshift	mm	4000							



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