Technical sheet :

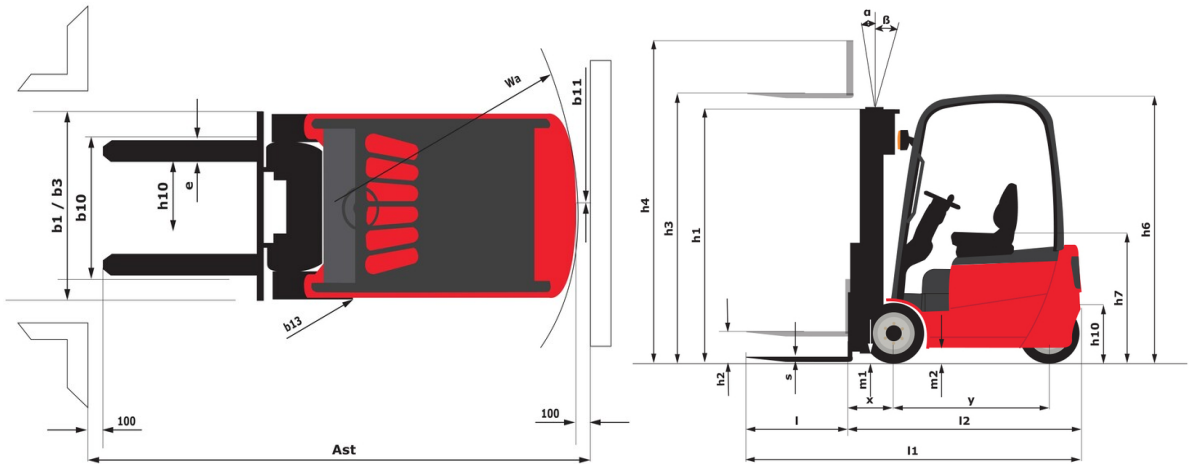
ME 320



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		ME 320
1.3	Power source		Electrical
1.4	Operator type		Sitting
1.5	Max. capacity	Q	4409 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	14 in
1.9	Wheelbase	y	58 in
	Weight		
2.1	Service weight		7650 lb
2.2	Weight on front axle (laden) / rear axle (laden)		10472 lb / 1587 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3373 lb / 4277 lb
	Wheels		
3.1	Tires type		PPS
3.2	Dimensions of front wheels		200/50-10
3.3	Dimensions of rear wheels		15x4,5-8
3.5	Number of front wheels / rear wheels		2 / 1
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	36 in
3.7	Rear wheel gauge	b11	7 in
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	80 in
4.8	Seat height/stand height	h7	39 in
4.12	Height of towing bar (coupling height)	h10	20 in
4.19	Overall length	l1	121 in
4.20	Length to face of forks	l2	79 in
4.21	Overall width	b1	44 in
4.22	Forks section / width / length	s / e / l	2 in x 5 in x 42 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	39 in
4.31	Ground clearance below mast	m1	4 in
4.32	Ground clearance at centre of wheelbase	m2	4 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	132 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	137 in
4.35	Turning radius	Wa	65 in
	Performances		
5.1	Travel speed (laden / unladen)		9 mph-9 mph
5.2	Lifting speed (laden / unladen)		1 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		900 daN / 930 daN
5.7	Gradeability (laden / unladen)		13 % / 15 %
5.10	Service brake		Oil bath
	Engine		
6.1	Number of drive motor / Drive motor rating S2 60 min		2 / 4.50 kW
6.2	Lift motor rating at S3 15%		8.60 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43531 A
6.4	Battery voltage / capacity		48 V / 690 Ah
6.6	Energy consumption		4.70 kWh
	Miscellaneous		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments		2611 PSI
8.3	Oil flow rate for attachments		9 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 70 dB
8.4	Sound level at the driver's ear according to DIN 12 053		70 dB

ME 320 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 27	FVD 30	FVD 33	FVD 36	FVD 40	FVD 43	FVD 45
Mast/fork carriage tilt, forward	°	5.50	5.50	5.50	5.50	3.50	3.50	3.50
Mast/fork carriage tilt, backward	°	6	6	6	6	5	5	5
h1 - Mast lowered height	in	72.6	78.5	84.4	90.4	100.2	106.7	111
h2 - Mast free lift	in	5.7	5.7	5.7	5.7	5.7	5.7	5.7
h3 - Mast lifting height	in	106.3	118.1	129.9	141.7	157.5	169.3	177.2
h4 - Mast extended height	in	128.5	140.4	152.2	164	179.7	191.5	199.4
Residual capacity at max height	lb	4409	4409	4409	4409	4409	4299	4189
Residual capacity with integrated side shift at max heigth	lb	4409	4409	4409	4409	4409	4299	4189
Residual capacity with hooked-on side shift at max heigth	lb	4409	4409	4409	4409	4079	3858	3748
Height at max capacity	in	106.3	118.1	129.9	141.7	157.5	157.5	157.5
Height at max capacity with integrated sideshift	in	106.3	118.1	129.9	141.7	157.5	157.5	157.5

Free Lift Duplex (FLD)		FLD 27	FLD 30	FLD 33	FLD 36	FLD 40
Mast/fork carriage tilt, forward	°	5.50	5.50	5.50	5.50	3.50
Mast/fork carriage tilt, backward	°	6	6	6	6	5
h1 - Mast lowered height	in	72.6	78.5	84.4	90.4	100.2
h2 - Mast free lift	in	49.6	55.5	61.4	67.3	77.2
h3 - Mast lifting height	in	106.3	118.1	129.9	141.7	157.5
h4 - Mast extended height	in	129.7	141.5	153.3	165.2	180.9
Residual capacity at max height	lb	4409	4409	4409	4409	4409
Residual capacity with integrated side shift at max heigth	lb	4409	4409	4409	4409	4409
Residual capacity with hooked-on side shift at max heigth	lb	4409	4409	4409	4409	4079
Height at max capacity	in	106.3	118.1	129.9	141.7	157.5
Height at max capacity with integrated sideshift	in	106.3	118.1	129.9	141.7	157.5

Free Lift Triplex (FLT)		FLT 40	FLT 43	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
Mast/fork carriage tilt, forward	°	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Mast/fork carriage tilt, backward	°	5	5	5	5	5	5	5	5
h1 - Mast lowered height	in	75.2	79.1	81.7	85.6	88.2	94.9	103.3	111.8
h2 - Mast free lift	in	52.2	56.1	58.7	62.6	65.2	71.9	79.1	79.1
h3 - Mast lifting height	in	157.5	169.3	177.2	189	196.9	216.5	236.2	255.9
h4 - Mast extended height	in	180.9	192.7	200.6	212.4	220.3	240	260.8	282.3
Residual capacity at max height	lb	4299	4189	3968	3748	3527	3086	2866	2425
Residual capacity with integrated side shift at max heigth	lb	4299	4189	3968	3748	3527	3086	2866	2425
Residual capacity with hooked-on side shift at max heigth	lb	3968	3858	3638	3417	3197	2756	2535	2094
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

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