

Technical sheet :

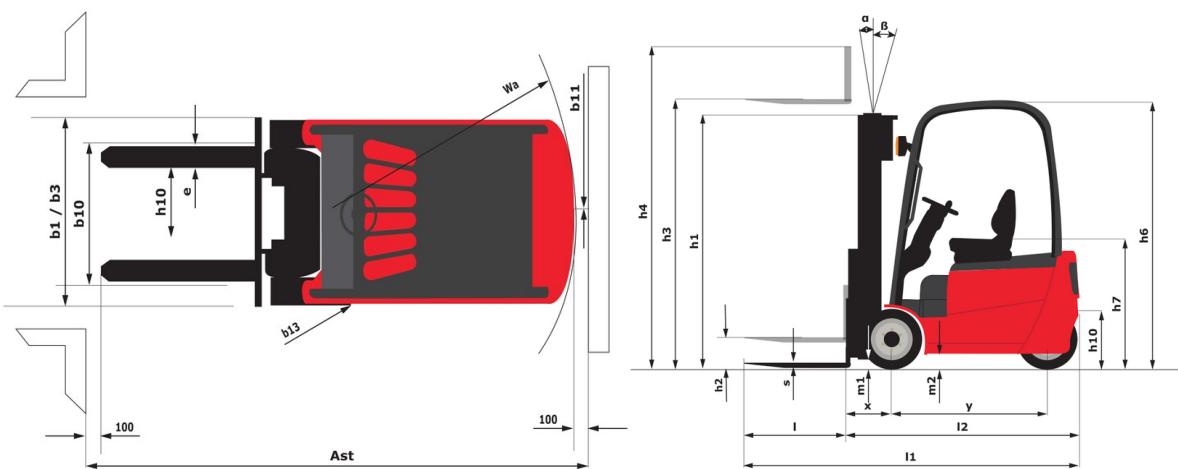
ME 320 US



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Imperial	
1.1	Manufacturer	Manitou	
1.2	Model Name	ME 320 US	
1.3	Power source	Electrical - Lead	
1.4	Operator type	Seated	
1.5	Max. capacity	4409 lb	
1.6	Load center of gravity	20 in	
1.8	Load distance, centre of drive axle to fork	14 in	
1.9	Wheelbase	58 in	
Weight		7650 lb	
2.1	Service weight	10472 lb / 1587 lb	
2.2	Weight on front axle (laden) / rear axle (laden)	3373 lb / 4277 lb	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		
Wheels		Solid tires	
3.1	Tires type	200/50-10	
3.2	Dimensions of front wheels	15x4,5-8	
3.3	Dimensions of rear wheels	2 / 1	
3.5	Number of front wheels / rear wheels	2	
3.5.2	Number of drive wheels		
3.6	Front wheel gauge	b10	36 in
3.7	Rear wheel gauge	b11	7 in
Dimensions		39 in	
4.8	Seat height/stand height	h7	
4.7	Height of overhead guard (cabin)	h6	80 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		9 mph-9 mph	
5.1	Travel speed (laden / unladen)		1 ft/s-1 ft/s
5.2	Lifting speed (laden / unladen)		2 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		900 daN / 930 daN
5.5	Drawbar pull (Laden / Unladen)		13 % / 15 %
5.7	Gradeability (laden / unladen)		Oil bath
5.10	Service brake		
Engine		2 / 4.50 kW	
6.1	Number of drive motor / Drive motor rating S2 60 min		8.60 kW
6.2	Lift motor rating at S3 15%		DIN43531 A
6.3	Battery according to DIN 43531/35/36 A, B, C		48 V / 690 Ah
6.4	Battery voltage / capacity		4.70 kWh/h
6.6	Energy consumption according to VDI cycle (kWh/h)		
Miscellaneous		Electronic	
8.1	Type of drive control		2611 PSI
8.2	Working hydraulic pressure for attachments		9 US gpm
8.3	Oil flow rate for attachments		70 dB
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		

ME 320 US - 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
α - Mast/fork carriage tilt, forward	°	5.50	5.50	5.50	5.50	3.50	3.50
β - Mast/fork carriage tilt, backward	°	6	6	6	6	5	5
h1 - Mast lowered height	in	72.6	78.5	84.4	90.4	100.2	106.7
h2 - Mast free lift	in	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
h4 - Mast extended height	in	128.5	140.4	152.2	164	179.7	191.5
Residual capacity at max height	lb	4409	4409	4409	4409	4409	4299
Residual capacity with integrated side shift at max height	lb	4409	4409	4409	4409	4409	4189
Residual capacity with hooked-on side shift at max height	lb	4409	4409	4409	4409	4079	3858
Height at max capacity	in	106.3	118.1	129.9	141.7	157.5	157.5
Height at max capacity with integrated sideshift	in	106.3	118.1	129.9	141.7	157.5	157.5

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



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