

Technical sheet :

# ME 320 US

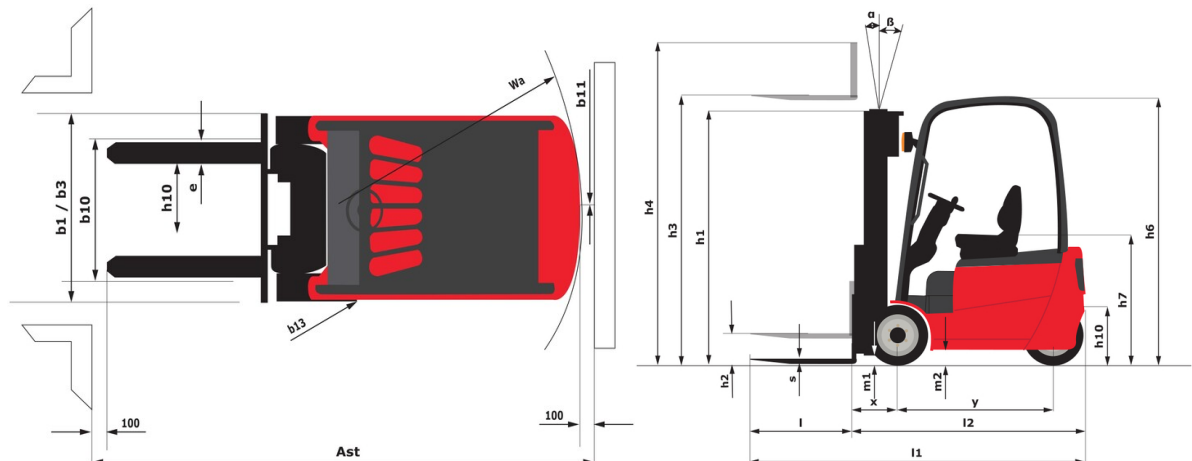
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 **MANITOU**  
HANDLING YOUR WORLD

	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	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
	<b>Weight</b>		
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
	<b>Wheels</b>		
3.1	Tires type		Solid tires
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
	<b>Dimensions</b>		
4.8	Seat height/stand height	h7	39 in
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
	<b>Performances</b>		
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
	<b>Engine</b>		
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 according to VDI cycle (kWh/h)		4.70 kWh/h
	<b>Miscellaneous</b>		
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 US - Dimensional drawing



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	3.50
β - 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 height	lb	4409	4409	4409	4409	4409	4299	4189
Residual capacity with hooked-on side shift at max height	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
α - Mast/fork carriage tilt, forward	°	5.50	5.50	5.50	5.50	3.50
β - 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 height	lb	4409	4409	4409	4409	4409
Residual capacity with hooked-on side shift at max height	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

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