

Technical sheet :

# ME 320 LIFT

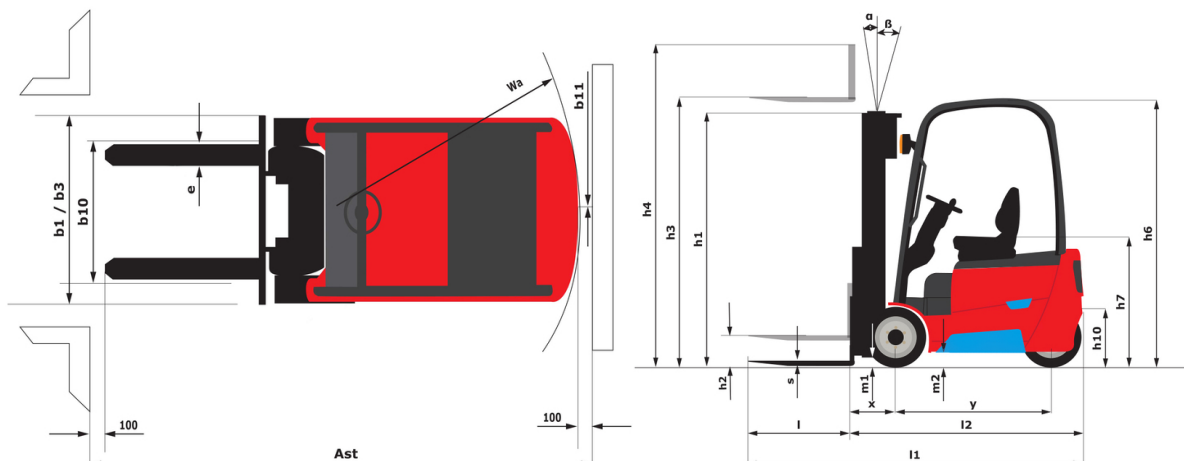
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 **MANITOU**  
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Technical characteristics			Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		ME 320 LIFT
1.3	Power source		Electrical
1.4	Operator type		Seated
1.5	Max. capacity	Q	4409 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	14 in
1.9	Wheelbase	y	55 in
Weight			
	Standard mast reference of the machine		FVD 30
2.1	Service weight		7055 lb
2.2	Weight on front axle (laden) / rear axle (laden)		10097 lb / 1367 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3009 lb / 4045 lb
Wheels			
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	37 in
3.7	Rear wheel gauge	b11	7 in
Dimensions			
4.7	Height of overhead guard (cabin)	h6	85 in
4.8	Seat height/stand height	h7	44 in
4.12	Height of towing bar (coupling height)	h10	21 in
4.19	Overall length	l1	114 in
4.20	Length to face of forks	l2	78 in
4.21	Overall width	b1	45 in
4.22.1	Forks width / length	e / l	2 in x 4 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	131 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	135 in
4.35	Turning radius	Wa	64 in
Performances			
5.1	Travel speed (laden / unladen)		9 mph-9 mph
5.2	Lifting speed (laden / unladen)		1 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		3050 daN / 3700 daN
5.7	Gradeability (laden / unladen)		13 % / 15 %
5.10	Service brake		Hydraulic
Engine			
6.1	Drive motor rating S2 60 min		2.50 kW
6.2	Lift motor rating at S3 15%		11 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		No
6.4	Battery voltage / capacity		76.80 V / 304 Ah
6.5	Battery weight (+/- 5%)		661 lb
6.6	Energy consumption according to VDI cycle (kW/h)		5.20 kWh
Miscellaneous			
8.2	Working hydraulic pressure for attachments		3046 PSI
8.3	Oil flow rate for attachments		8 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		70 dB

### ME 320 LIFT - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 40	FVD 45
α - Mast/fork carriage tilt, forward	°	7	7	7	7
β - Mast/fork carriage tilt, backward	°	6	6	6	6
h1 - Mast lowered height	in	78.3	84.2	101.9	111.7
h2 - Mast free lift	in	5.5	5.5	5.5	5.5
h3 - Mast lifting height	in	118.1	129.9	157.5	177.2
h4 - Mast extended height	in	140.2	152	179.5	199.2
Residual capacity at max height	lb	4409	4409	4409	4189
Residual capacity with integrated side shift at max height	lb	4299	4299	4299	4079

Free Lift Triplex (FLT)		FLT 40	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
α - Mast/fork carriage tilt, forward	°	3.50	3.50	3.50	3.50	3.50	3.50	3.50
β - Mast/fork carriage tilt, backward	°	5	5	5	5	5	5	5
h1 - Mast lowered height	in	74.3	80.2	84.2	87.1	94	101.9	109.8
h2 - Mast free lift	in	50.9	54.8	58.7	62.7	70.6	78.4	86.3
h3 - Mast lifting height	in	157.5	177.2	189	196.9	216.5	236.2	255.9
h4 - Mast extended height	in	179.2	198.9	210.7	218.6	238.3	258	277.6
Residual capacity at max height	lb	4409	3968	3748	3527	3307	2866	2425
Residual capacity with integrated side shift at max height	lb	4299	3858	3638	3417	3197	2756	2315



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