

Technical sheet :

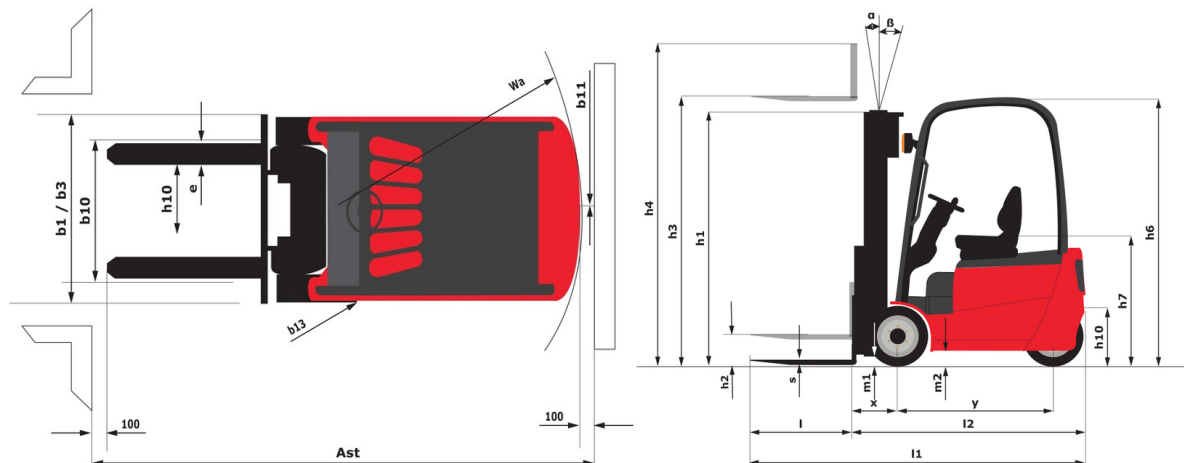
ME 315



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics			Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		ME 315	ME 315
1.3	Power source		Electrical	Electrical
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	1500 kg	3307 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	355 mm	14 in
1.9	Wheelbase	y	1250 mm	49 in
Weight				
2.1	Service weight		2860 kg	6305 lb
2.2	Weight on front axle (laden) / rear axle (laden)		3600 kg / 560 kg	7937 lb / 1235 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1350 kg / 1510 kg	2976 lb / 3329 lb
Wheels				
3.1	Tires type		Solid tires	Solid tires
3.2	Dimensions of front wheels		18 x 7 - 8	18 x 7 - 8
3.3	Dimensions of rear wheels		15 x 4.5 - 8	15 x 4.5 - 8
3.5	Number of front wheels / rear wheels		2 / 1	2 / 1
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	910 mm	36 in
3.7	Rear wheel gauge	b11	175 mm	7 in
Dimensions				
4.7	Height of overhead guard (cabin)	h6	2040 mm	80 in
4.8	Seat height/stand height	h7	1000 mm	39 in
4.12	Height of towing bar (coupling height)	h10	500 mm	20 in
4.19	Overall length	l1	2860 mm	113 in
4.20	Length to face of forks	l2	1790 mm	70 in
4.21	Overall width	b1	1086 mm	43 in
4.22	Forks section / width / length	s / e / l	100 mm x 1150 mm x 35 mm	4 in x 45 in x 1 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A	2A
4.24	Fork carriage width	b3	1000 mm	39 in
4.32	Ground clearance at centre of wheelbase	m2	100 mm	4 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3138 mm	124 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3262 mm	128 in
4.35	Turning radius	Wa	1452 mm	57 in
4.36	Internal turning radius (over tyres)	b13	0 mm	0 in
Performances				
5.1	Travel speed (laden / unladen)		16 km/h-16 km/h	10 mph-10 mph
5.2	Lifting speed (laden / unladen)		0.40 m/s-0.47 m/s	1 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		0.46 m/s-0.45 m/s	2 ft/s-1 ft/s
5.7	Gradeability (laden / unladen)		16 % / 18 %	16 % / 18 %
5.10	Service brake		Oil bath	Oil bath
Engine				
6.1	Number of drive motor / Drive motor rating S2 60 min		2 / 4.50 kW	2 / 4.50 kW
6.2	Lift motor rating at S3 15%		8.60 kW	8.60 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43531 A	DIN43531 A
6.4	Battery voltage / capacity		48 V / 460 Ah	48 V / 460 Ah
6.6	Energy consumption according to VDI cycle (kWh/h)		4.30 kWh/h	4.30 kWh/h
Miscellaneous				
8.1	Type of drive control		Electronic	Electronic
8.2	Working hydraulic pressure for attachments		155 bar	2248 PSI
8.3	Oil flow rate for attachments		35 l/min	9 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 70 dB	< 70 dB
8.4	Sound level at the driver's ear according to DIN 12 053		70 dB	70 dB

ME 315 - 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	3.50
β - Mast/fork carriage tilt, backward °		6	6	6	6	5	5	5
h1 - Mast lowered height	in (mm)	72.6 (1845)	78.5 (1995)	84.4 (2145)	90.4 (2295)	100.2 (2545)	106.7 (2710)	111 (2820)
h2 - Mast free lift	in (mm)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)
h3 - Mast lifting height	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	169.3 (4300)	177.2 (4500)
h4 - Mast extended height	in (mm)	128.5 (3265)	140.4 (3565)	152.2 (3865)	164 (4165)	179.7 (4565)	191.5 (4865)	199.4 (5065)
Residual capacity at max height	lb (kg)	3307 (1500)	3307 (1500)	3307 (1500)	3307 (1500)	3307 (1500)	3197 (1450)	3086 (1400)
Residual capacity with integrated side shift at max height	lb (kg)	3307 (1500)	3307 (1500)	3307 (1500)	3307 (1500)	3307 (1500)	3197 (1450)	3086 (1400)
Residual capacity with hooked-on side shift at max height	lb (kg)	3307 (1500)	3307 (1500)	3307 (1500)	3197 (1450)	3086 (1400)	2976 (1350)	2866 (1300)
Height at max capacity	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	157.5 (4000)	157.5 (4000)
Height at max capacity with integrated sideshift	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	157.5 (4000)	157.5 (4000)

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 (mm)	72.6 (1845)	78.5 (1995)	84.4 (2145)	90.4 (2295)	100.2 (2545)
h2 - Mast free lift	in (mm)	49.6 (1260)	55.5 (1410)	61.4 (1560)	67.3 (1710)	77.2 (1960)
h3 - Mast lifting height	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)
h4 - Mast extended height	in (mm)	129.7 (3295)	141.5 (3595)	153.3 (3895)	165.2 (4195)	180.9 (4595)
Residual capacity at max height	lb (kg)	3307 (1500)	3307 (1500)	3307 (1500)	3307 (1500)	3307 (1500)
Residual capacity with integrated side shift at max height	lb (kg)	3307 (1500)	3307 (1500)	3307 (1500)	3307 (1500)	3307 (1500)
Residual capacity with hooked-on side shift at max height	lb (kg)	3307 (1500)	3307 (1500)	3307 (1500)	3197 (1450)	3086 (1400)
Height at max capacity	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)
Height at max capacity with integrated sideshift	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)

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