

Technical sheet :

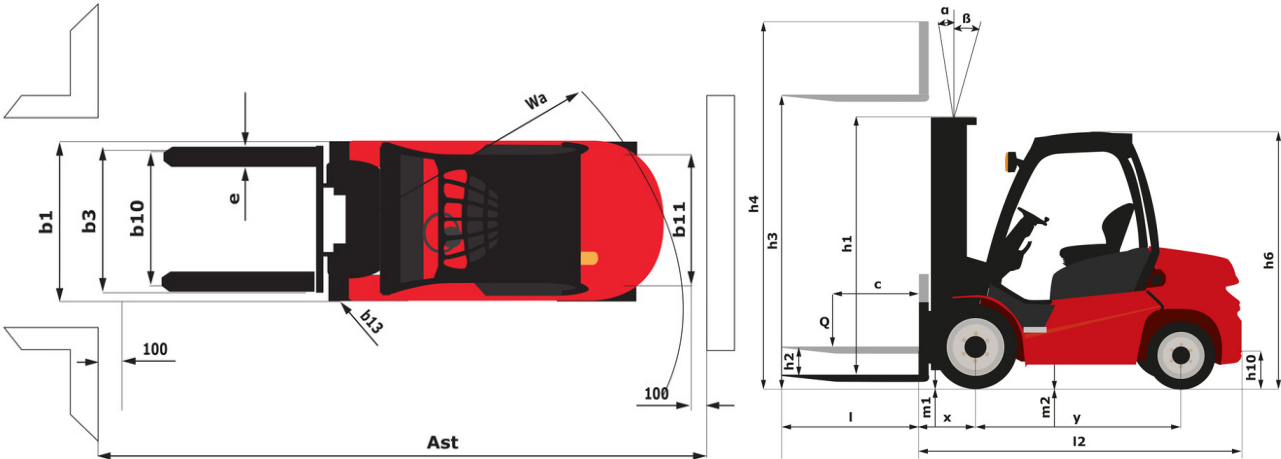
MI 100 D



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics			Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MI 100 D	MI 100 D
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	10000 kg	22046 lb
1.6	Load center of gravity	c	600 mm	24 in
1.8	Load distance, centre of drive axle to fork	x	713 mm	28 in
1.9	Wheelbase	y	2800 mm	110 in
Weight				
2.1	Service weight		14340 kg	31614 lb
2.2	Weight on front axle (laden) / rear axle (laden)		21885 kg / 2455 kg	48248 lb / 5412 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		6790 kg / 7550 kg	14969 lb / 16645 lb
Wheels				
3.1	Tires type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		9.00-20-14PR	9.00-20-14PR
3.3	Dimensions of rear wheels		9.00-20-14PR	9.00-20-14PR
3.5	Number of front wheels / rear wheels		4 / 2	4 / 2
3.5.2	Number of drive wheels		4	4
3.6	Front wheel gauge	b10	1628 mm	64 in
3.7	Rear wheel gauge	b11	1700 mm	67 in
Dimensions				
4.7	Height of overhead guard (cabin)	h6	2580 mm	102 in
4.8	Seat height/stand height	h7	1505 mm	59 in
4.12	Height of towing bar (coupling height)	h10	840 mm	33 in
4.19	Overall length	l1	5802 mm	228 in
4.20	Length to face of forks	l2	4282 mm	169 in
4.21	Overall width	b1	2165 mm	85 in
4.21	Overall width - Twinned wheels	b1	2165 mm	85 in
4.22	Forks section / width / length	s / e / l	80 mm x 160 mm x 1520 mm	3 in x 6 in x 60 in
4.23	Fork carriage ISO 2328 (class/form) A/B		5A	5A
4.24	Fork carriage width	b3	2100 mm	83 in
4.31	Ground clearance below mast	m1	190 mm	7 in
4.32	Ground clearance at centre of wheelbase	m2	339 mm	13 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	5995 mm	236 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	6134 mm	241 in
4.35	Turning radius	Wa	3980 mm	157 in
4.36	Internal turning radius (over tyres)	b13	1396 mm	55 in
Performances				
5.1	Travel speed (laden / unladen)		24 km/h-24.50 km/h	15 mph-15 mph
5.2	Lifting speed (laden / unladen)		0.31 m/s-0.33 m/s	1 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		0.45 m/s-0.36 m/s	1 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		9430 daN / 3960 daN	9430 daN / 3960 daN
5.7	Gradeability (laden)		28 %	28 %
5.10	Service brake		Hydraulic	Hydraulic
	Transmission type		Torque converter	Torque converter
Engine				
7.1	Engine brand / model / norm		Deutz / TCD 3.6 / Stage IV	Deutz / TCD 3.6 / Stage IV
7.2	I.C. Engine power rating		85 kW	85 kW
7.3	Rated speed		2200 rpm	2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 3600 cm³	4 - 220 in³
Miscellaneous				
8.2	Working hydraulic pressure for attachments		195 bar	2828 PSI
8.3	Oil flow rate for attachments		64 l/min	17 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB	< 84 dB
8.4	Sound level at the driver's ear according to DIN 12 053		84 dB	84 dB

MI 100 D - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 36	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12	12	6	6
h1 - Mast lowered height	in (mm)	112.2 (2850)	118.1 (3000)	124 (3150)	131.9 (3350)	143.7 (3650)	153.5 (3900)
h2 - Mast free lift	in (mm)	7.9 (200)	7.9 (200)	7.9 (200)	7.9 (200)	7.9 (200)	7.9 (200)
h3 - Mast lifting height	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	177.2 (4500)	196.9 (5000)
h4 - Mast extended height	in (mm)	179.3 (4555)	191.1 (4855)	203 (5155)	218.7 (5555)	238.4 (6055)	258.1 (6555)
Residual capacity at max height	lb (kg)	22046 (10000)	22046 (10000)	22046 (10000)	22046 (10000)	22046 (10000)	22046 (10000)
Height at max capacity	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	177.2 (4500)	196.9 (5000)
Height at max capacity with integrated sideshift	in (mm)		129.9 (3300)		157.5 (4000)	177.2 (4500)	

Free Lift Triplex (FLT)		FLT 45	FLT 48	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	6	6	6	3	3
β - Mast/fork carriage tilt, backward	°	6	6	6	6	6
h1 - Mast lowered height	in (mm)	112.2 (2850)	116.1 (2950)	120.1 (3050)	126 (3200)	131.9 (3350)
h2 - Mast free lift	in (mm)	51.4 (1305)	55.3 (1405)	59.3 (1505)	65.2 (1655)	71.1 (1805)
h3 - Mast lifting height	in (mm)	177.2 (4500)	189 (4800)	196.9 (5000)	216.5 (5500)	236.2 (6000)
h4 - Mast extended height	in (mm)	238.4 (6055)	250.2 (6355)	258.1 (6555)	277.8 (7055)	297.4 (7555)
Residual capacity at max height	lb (kg)	18739 (8500)	18739 (8500)	18078 (8200)	16976 (7700)	15432 (7000)
Height at max capacity	in (mm)	177.2 (4500)	189 (4800)	196.9 (5000)	216.5 (5500)	236.2 (6000)



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