

Technical sheet :

MI 100 D



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MI 100 D
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	22046 lb
1.6	Load center of gravity	c	24 in
1.8	Load distance, centre of drive axle to fork	x	28 in
1.9	Wheelbase	y	110 in
	Weight		
2.1	Service weight		31614 lb
2.2	Weight on front axle (laden) / rear axle (laden)		48248 lb / 5412 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		14969 lb / 16645 lb
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		9.00-20-14PR
3.3	Dimensions of rear wheels		9.00-20-14PR
3.5	Number of front wheels / rear wheels		4 / 2
3.5.2	Number of drive wheels		4
3.6	Front wheel gauge	b10	64 in
3.7	Rear wheel gauge	b11	67 in
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	102 in
4.8	Seat height/stand height	h7	59 in
4.12	Height of towing bar (coupling height)	h10	33 in
4.19	Overall length	l1	228 in
4.20	Length to face of forks	l2	169 in
4.21	Overall width	b1	85 in
4.21	Overall width - Twinned wheels	b1	85 in
4.22	Forks section / width / length	s / e / l	3 in x 6 in x 60 in
4.23	Fork carriage ISO 2328 (class/form) A/B		5A
4.24	Fork carriage width	b3	83 in
4.31	Ground clearance below mast	m1	7 in
4.32	Ground clearance at centre of wheelbase	m2	13 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	236 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	241 in
4.35	Turning radius	Wa	157 in
4.36	Internal turning radius (over tyres)	b13	55 in
	Performances		
5.1	Travel speed (laden / unladen)		15 mph-15 mph
5.2	Lifting speed (laden / unladen)		1 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		1 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		9430 daN / 3960 daN
5.7	Gradeability (laden)		28 %
5.10	Service brake		Hydraulic
	Engine		
7.1	Engine brand / model / norm		Deutz / TCD 3.6 / Stage IV
7.2	Engine power according to ISO 1585		85 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 220 in³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		2828 PSI
8.3	Oil flow rate for attachments		17 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB
8.4	Sound level at the driver's ear according to DIN 12 053		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
Mast/fork carriage tilt, forward	°	6	6	6	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12	12	6	6
h1 - Mast lowered height	in	112.2	118.1	124	131.9	143.7	153.5
h2 - Mast free lift	in	7.9	7.9	7.9	7.9	7.9	7.9
h3 - Mast lifting height	in	118.1	129.9	141.7	157.5	177.2	196.9
h4 - Mast extended height	in	179.3	191.1	203	218.7	238.4	258.1
Residual capacity at max height	lb	22046	22046	22046	22046	22046	22046
Height at max capacity	in	118.1	129.9	141.7	157.5	177.2	196.9
Height at max capacity with integrated sideshift	in		129.9		157.5	177.2	

Free Lift Triplex (FLT)		FLT 45	FLT 48	FLT 50	FLT 55	FLT 60
Mast/fork carriage tilt, forward	°	6	6	6	3	3
Mast/fork carriage tilt, backward	°	6	6	6	6	6
h1 - Mast lowered height	in	112.2	116.1	120.1	126	131.9
h2 - Mast free lift	in	51.4	55.3	59.3	65.2	71.1
h3 - Mast lifting height	in	177.2	189	196.9	216.5	236.2
h4 - Mast extended height	in	238.4	250.2	258.1	277.8	297.4
Residual capacity at max height	lb	18739	18739	18078	16976	15432
Height at max capacity	in	177.2	189	196.9	216.5	236.2



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