

Technical sheet :

MI 45 D



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MI 45 D
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	9921 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	22 in
1.9	Wheelbase	y	79 in
	Weight		
2.1	Service weight		14330 lb
2.2	Weight on front axle (laden) / rear axle (laden)		21219 lb / 3031 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		6217 lb / 8113 lb
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		300-15-18PR
3.3	Dimensions of rear wheels		7.00-12-12PR
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	47 in
3.7	Rear wheel gauge	b11	44 in
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	94 in
4.8	Seat height/stand height	h7	54 in
4.12	Height of towing bar (coupling height)	h10	18 in
4.19	Overall length	l1	170 in
4.20	Length to face of forks	l2	122 in
4.21	Overall width	b1	59 in
4.21	Overall width - Single wheels	b1	59 in
4.22	Forks section / width / length	s / e / l	2 in x 6 in x 48 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	49 in
4.31	Ground clearance below mast	m1	7 in
4.32	Ground clearance at centre of wheelbase	m2	9 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	184 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	189 in
4.35	Turning radius	Wa	110 in
4.36	Internal turning radius (over tyres)	b13	4 in
	Performances		
5.1	Travel speed (laden / unladen)		14 mph-15 mph
5.2	Lifting speed (laden / unladen)		2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s-2 ft/s
5.5	Drawbar pull (Laden / Unladen)		4000 daN / 2000 daN
5.7	Gradeability (laden / unladen)		30 % / 36 %
5.10	Service brake		Hydraulic
	Engine		
7.1	Engine brand / model		Cummins / QSF2.8T4F
7.2	Engine power according to ISO 1585		55 kW
7.3	Rated speed		2600 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 171 in³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		2321 PSI
8.3	Oil flow rate for attachments		24 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 45 D - Dimensional drawing



Free Lift Duplex (FLD)		FLD 30	FLD 33	FLD 35	FLD 37
Mast/fork carriage tilt, forward	°	6	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12	12
h1 - Mast lowered height	in	87.6	93.5	97.5	101.4
h2 - Mast free lift	in	53.7	59.6	63.5	67.5
h3 - Mast lifting height	in	118.1	129.9	137.8	145.7
h4 - Mast extended height	in	164.2	176	183.9	191.7
Residual capacity at max height	lb	9921	9921	9921	9921
Residual capacity with integrated side shift at max height	lb	9921	9921	9921	9921
Height at max capacity	in	118.1	129.9	137.8	145.7
Height at max capacity with integrated sideshift	in	118.1	129.9	137.8	145.7

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