

Technical sheet :

# MSI 50

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 **MANITOU**  
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MSI 50
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	11023 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	82 in
	<b>Weight</b>		
2.1	Service weight		18563 lb
2.2	Weight on front axle (laden) / rear axle (laden)		25280 lb / 4306 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		7692 lb / 10871 lb
	<b>Wheels</b>		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		315/70 R22,5
3.3	Dimensions of rear wheels		225/75 R15
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	56 in
3.7	Rear wheel gauge	b11	45 in
	<b>Dimensions</b>		
4.8	Seat height/stand height	h7	51 in
4.12	Height of towing bar (coupling height)	h10	21 in
4.19	Overall length	l1	180 in
4.20	Length to face of forks	l2	133 in
4.21	Overall width	b1	68 in
4.22	Forks section / width / length	s / e / l	2 in x 6 in x 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		4A
4.24	Fork carriage width	b3	66 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	198 in
4.35	Turning radius	Wa	116 in
4.36	Internal turning radius (over tyres)	b13	5 in
	<b>Performances</b>		
5.1	Travel speed (laden / unladen)		14 mph-14 mph
5.2	Lifting speed (laden / unladen)		2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		1 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		3350 daN / 2420 daN
5.7	Gradeability (laden / unladen)		24 % / 26 %
5.10	Service brake		Hydraulic
	<b>Engine</b>		
7.1	Engine brand / model		Perkins / 854 F 10794
7.2	Engine power according to ISO 1585		55 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 207 in³
	<b>Miscellaneous</b>		
8.1	Type of drive control		Hydraulic
8.2	Working hydraulic pressure for attachments		3336 PSI
8.3	Oil flow rate for attachments		12 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 81 dB

## MSI 50 - Dimensional drawing



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