Technical sheet:

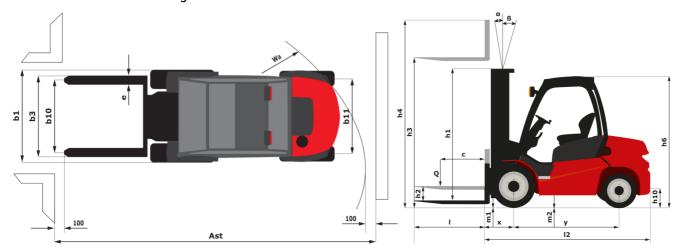
MSI 50





			Freated off July 17, 2025 at 12.29 AM
	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	У	82 in
	Weight		
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
2.0	Wheels		7672.187 1007.1.18
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
.5.2	Number of drive wheels	110	2
3.6	Front wheel gauge	b10	56 in
3.7	Rear wheel gauge	b11	45 in
	Dimensions		
4.8	Seat height/stand height	h7	51 in
.12	Height of towing bar (coupling height)	h10	21 in
.19	Overall length	l1	180 in
.20	Length to face of forks	12	133 in
.21	Overall width	b1	68 in
1.22	Forks section / width / length	s / e / l	2 in x 6 in x 47 in
1.23	Fork carriage ISO 2328 (class/form) A/B		4A
1.24	Fork carriage width	b3	66 in
1.31	Ground clearance below mast	m1	7 in
.32	Ground clearance at centre of wheelbase	m2	9 in
.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	198 in
.35	Turning radius	Wa	116 in
.36	Internal turning radius (over tyres)	b13	5 in
	Performances		
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
	Engine		,
7.1	Engine brand / model / norm		Perkins / 854 F 10794 / Stage IIIB
7.2	I.C. Engine power rating		55 kW
7.2	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 207 in ³
/ . **	Miscellaneous		4 - 207 III-
0 1			Undernit a
8.1 8.2	Type of drive control		Hydraulic
n /	Working hydraulic pressure for attachments		3336 PSI
8.3	Oil flow rate for attachments		12 US gpm

MSI 50 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward	۰	10	10	10	10	10	10	10
β - Mast/fork carriage tilt, backward	۰	12	12	12	12	12	12	12
h1 - Mast lowered height	in	95.5	101.4	105.3	109.3	115.2	125	134.8
h3 - Mast lifting height	in	118.1	129.9	137.8	137.8	157.5	177.2	196.9
h4 - Mast extended height	in	156.4	168.2	176.1	183.9	195.7	215.4	235.1
Residual capacity at max height	lb	11023	11023	11023	11023	11023	10582	10582
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	۰	10	10	10	10	10	10	10	10
β - Mast/fork carriage tilt, backward	٠	12	12	12	12	12	12	12	12
h1 - Mast lowered height	in	85.6	89.6	93.5	96.5	98.8	103.3	109.3	116.1
h2 - Mast free lift	in	49.7	53.7	57.6	60.6	62.9	67.4	73.3	80.2
h3 - Mast lifting height	in	145.7	157.5	169.3	177.2	185	196.9	216.5	236.2
h4 - Mast extended height	in	183.5	195.4	207.2	215	222.9	234.7	254.4	274.1
Residual capacity at max height	lb	10803	10803	10803	10582	10141	9700	8378	6834
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4





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