Technical sheet:

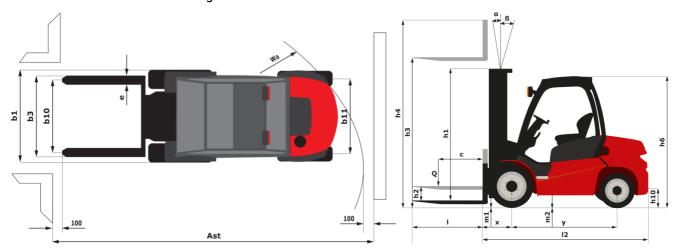
MSI 50 ST5





		MSI 50 ST5 Create	d on November 8, 2025 at 7:36 PM UTC
	Technical characteristics		Imperial
1.1	Manufacturer		MANITOU
1.2	Model Name		MSI 50 ST5
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
	Standard mast reference of the machine		FVD 37
	Weight		·
2.1	Service weight		18563 lb
2.2	Weight on front axle (laden) / rear axle (laden)		25287 lb / 3660 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		7694 lb / 10626 lb
2.0	Wheels		7034187 1002018
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		315/70 R22,5 KMAX S
3.3	Dimensions of rear wheels		225/75 R15 XZM
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
3.7	Dimensions	DII	45 III
4.7	Height of overhead guard (cabin)	h6	96 in
	Seat height/stand height	h7	56 in
4.8 4.12		h10	24 in
	Height of towing bar (coupling height)	l1	180 in
4.19 4.20	Overall length	12	133 in
4.20	Length to face of forks Overall width	b1	68 in
4.21			2 in x 6 in x 47 in
4.22	Forks section / width / length	s / e / l	4A
4.23	Fork carriage ISO 2328 (class/form) A/B	b3	66 in
4.24	Fork carriage width Ground clearance below mast	m1	7 in
4.32	Ground clearance at centre of wheelbase	m2	9 in
4.33			206 in
4.35	Aisle Width for pallets 1000 x 1200 crossways	Ast Wa	200 iii 116 in
4.55	Turning radius	wd	110 111
F 1	Performances		10 mmh 10 mmh
5.1 5.2	Travel speed (laden / unladen) Lifting speed (laden / unladen)		12 mph-12 mph
5.2	- , , ,		1 ft/s-1 ft/s
	Lowering speed (laden / unladen)		2 ft/s-1 ft/s 3393 daN / 2471 daN
5.5 5.7	Drawbar pull (Laden / Unladen)		
	Gradeability (laden / unladen)		32 % / 29 %
5.10	Service brake		Hydraulic
	Transmission type		Hydrostatic
7.1	Engine		Doubte / TOD 2 01 / Store V
7.1	Engine brand / model / norm		Deutz / TCD 2,9L / Stage V
7.2	Engine power (Hp / kW)		75 Hp/55 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders Miscellaneous		4 - 177 in³
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments		3336 PSI
8.3	Oil flow rate for attachments		12 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		81 dB

MSI 50 ST5 - 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		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	145.7	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	11023	11023
Residual capacity with hooked-on side shift at max heigth	lb	11023	11023	11023	11023	11023	11023	11023
Height at max capacity	in	118.1	129.9	137.8	145.7	157.5	177.2	196.9
Height at max capacity with hooked-on sideshift	in	118.1	129.9	137.8	145.7	157.5	177.2	196.9

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	49.5	53.5	57.4	60.4	62.7	67.2	73.1	80
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	183.9	195.7	207.6	215.4	223.3	235.1	254.8	274.5
Residual capacity at max height	lb	11023	11023	11023	11023				9480
Residual capacity with hooked-on side shift at max heigth	lb	11023	11023	11023	11023				
Height at max capacity	in	145.7	157.5	169.3	177.2	98.4	98.4	98.4	98.4
Height at max capacity with hooked-on sideshift	in	145.7	157.5	169.3	177.2				





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