Technical sheet:

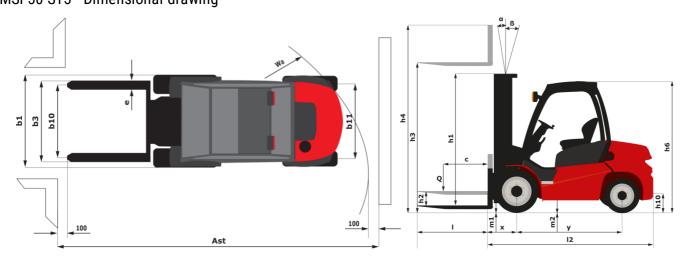
MSI 50 ST5





		MSI 50 ST5 Created	on March 31, 2023 at 4:56:02 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		Sitting
1.5	Max. capacity	Q	11023 lb
1.6	Load centre of gravity	c	24 in
1.8	Load distance, centre of drive axle to fork	Х	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)		25287 lb / 3660 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		7694 lb / 10626 lb
	Wheels		
3.1	Tyres 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
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	96 in
4.8	Seat height/stand height	h7	56 in
4.12	Height of towing bar (coupling height)	h10	24 in
4.19	Overall length	I1	180 in
4.20	Length to face of forks	12	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	37 671	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	206 in
4.35	Turning radius	Wa	116 in
4.55	Performances	wa	110 111
5.1	Travel speed (laden / unladen)		12 mi/h / 12 mi/h
5.2	Lifting speed (laden / unladen)		1 ft/s / 1 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s / 1 ft/s
5.5	Drawbar pull (Laden / Unladen)		3393 daN / 2471 daN
5.7	Gradeability (laden / unladen)		32 % / 29 %
5.10	Service brake		Hydraulic
3.10	Engine		Trydiadile
7.1	Engine brand / model		Deutz / TCD 2,9L
7.1	Engine brand / moder Engine power according to ISO 1585		55 kW
7.2	Rated speed		2200 rpm
7.3	•		2200 rpm 4 - 177 in³
7.4	Number of cylinders / Capacity of cylinders Miscellaneous		4 - 177 M²
8.1	Type of drive control		Electronic
8.1			3336 PSI
8.2	Working hydraulic pressure for attachments Oil flow rate for attachments		3336 PSI 12 US gpm
8.3			12 US gpm 81 dB
5.4	Sound level at the driver's ear according to DIN 12 053		סו עם

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
h1 - Height mast lowered *	in	7' 11"	8' 5"	8' 9"	9' 1"	9' 7"	10' 5"	11' 3"
h3 - Lifting Height	in	9' 10"	10' 10"	11' 6"	12' 2"	13' 1"	14' 9"	16' 5"
h4 - Height mast extended *	in	13'	14'	14' 8"	15' 4"	16' 4"	17' 11"	19' 7"
α / β - Mast inclination (front / rear)	۰	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	lb	11023.11	11023.11	11023.11	11023.11	11023.11	11023.11	11023.11
Residual capacity with hooked-on side shift (Industrial load chart)	lb	11023.11	11023.11	11023.11	11023.11	11023.11	11023.11	11023.11
Height at max capacity	in	9' 10"	10' 10"	11' 6"	12' 2"	13' 1"	14' 9"	16' 5"
Height at max capacity with hooked-on sideshift	in	9' 10"	10' 10"	11' 6"	12' 2"	13' 1"	14' 9"	16' 5"

Free Lift Duplex (FLD)		FLD 30	FLD 33	FLD 35	FLD 37	FLD 40
h1 - Height mast lowered *	in	8'	8' 6"	8' 10"	9' 2"	9' 8"
h2 - Free lift	in	5'	5' 6"	5' 10"	6' 2"	6' 8"
h3 - Lifting Height	in	9' 10"	10' 10"	11' 6"	12' 2"	13' 1"
h4 - Height mast extended *	in	13'	14'	14' 8"	15' 4"	19' 7"
α / β - Mast inclination (front / rear)	۰	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	lb	11023.11	11023.11	11023.11	11023.11	11023.11
Residual capacity with hooked-on side shift (Industrial load chart)	lb	11023.11	11023.11	11023.11	11023.11	11023.11
Height at max capacity	in	9' 10"	10' 10"	11' 6"	12' 2"	13'1"
Height at max capacity with hooked-on sideshift	in	9' 10"	10' 10"	11' 6"	12' 2"	13' 1"

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
h1 - Height mast lowered * in		7' 2"	7' 6"	7' 10"	8'	8' 3"	8' 7"	9' 1"	9' 8"
h2 - Free lift	in	4' 2"	4' 5"	4' 9"	5'	5' 3"	5' 7"	6' 1"	6' 8"
h3 - Lifting Height	in	12' 2"	13' 1"	14' 1"	14' 9"	15' 5"	16' 5"	18' 1"	19' 8"
h4 - Height mast extended *	in	15' 4"	16' 4"	17' 4"	17' 11"	18' 7"	19' 7"	21' 3"	22' 10"
α / β - Mast inclination (front / rear)	•	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	lb	11023.11	11023.11	11023.11	11023.11				
Residual capacity with hooked-on side shift (Industrial load chart)	lb	11023.11	11023.11	11023.11	11023.11				
Height at max capacity	in	12' 2"	13' 1"	14' 1"	14' 9"				
Height at max capacity with hooked-on sideshift	in	12' 2"	13' 1"	14' 1"	14' 9"				





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