

Technical sheet :

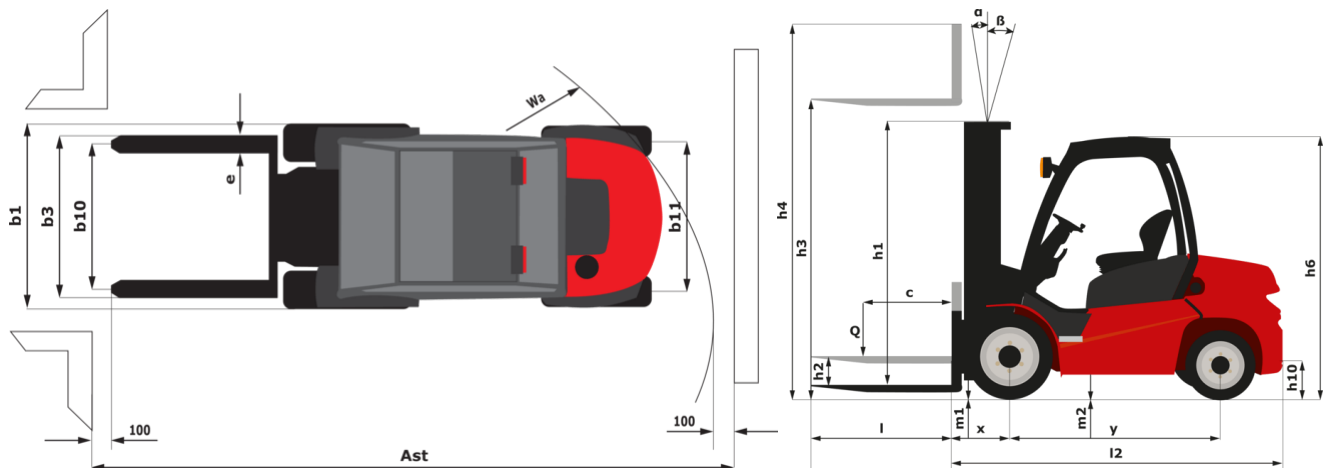
MSI 40 ST5



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		MANITOU
1.2	Model Name		MSI 40 ST5
1.3	Power source		Diesel
1.4	Operator type		Sitting
1.5	Max. capacity	Q	8818 lb
1.6	Load centre of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	27 in
1.9	Wheelbase	y	82 in
	Weight		
2.1	Service weight		15388 lb
2.2	Weight on front axle (laden)		20382 lb
2.3	Weight on front axle (Unladen)		7077 lb
	Wheels		
3.1	Tyres type		Pneumatic
3.2	Dimensions of front wheels		315/70 R22,5 KMAX
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	l1	177 in
4.20	Length to face of forks	l2	130 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		3A
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	195 in
4.35	Turning radius	Wa	113 in
	Performances		
5.1	Travel speed (laden / unladen)		12 mi/h / 12 mi/h
5.2	Lifting speed (laden)		2 ft/s
5.3	Lowering speed (laden)		2 ft/s
5.5	Drawbar pull (Laden)		3103 daN
5.7	Gradeability (laden)		34 %
5.10	Service brake		Hydraulic
	Engine		
7.1	Engine brand / model		Deutz / TCD 2,9L
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 - 177 in³
	Miscellaneous		
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 40 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' 1"	14'	14' 8"	15' 4"	16' 4"	18'	19' 7"
α / β - Mast inclination (front / rear)	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	lb	8818.49	8818.49	8818.49	8818.49	8818.49	8818.49	8818.49
Residual capacity with hooked-on side shift (Industrial load chart)	lb	8818.49	8818.49	8818.49	8818.49	8818.49	8818.49	8818.49
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"	16' 4"
α / β - Mast inclination (front / rear)	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	lb	8818.49	8818.49	8818.49	8818.49	8818.49
Residual capacity with hooked-on side shift (Industrial load chart)	lb	8818.49	8818.49	8818.49	8818.49	8818.49
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' 3"	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	8818.49	8818.49	8818.49	8818.49				
Residual capacity with hooked-on side shift (Industrial load chart)	lb	8818.49	8818.49	8818.49	8818.49				
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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