

Technical sheet :

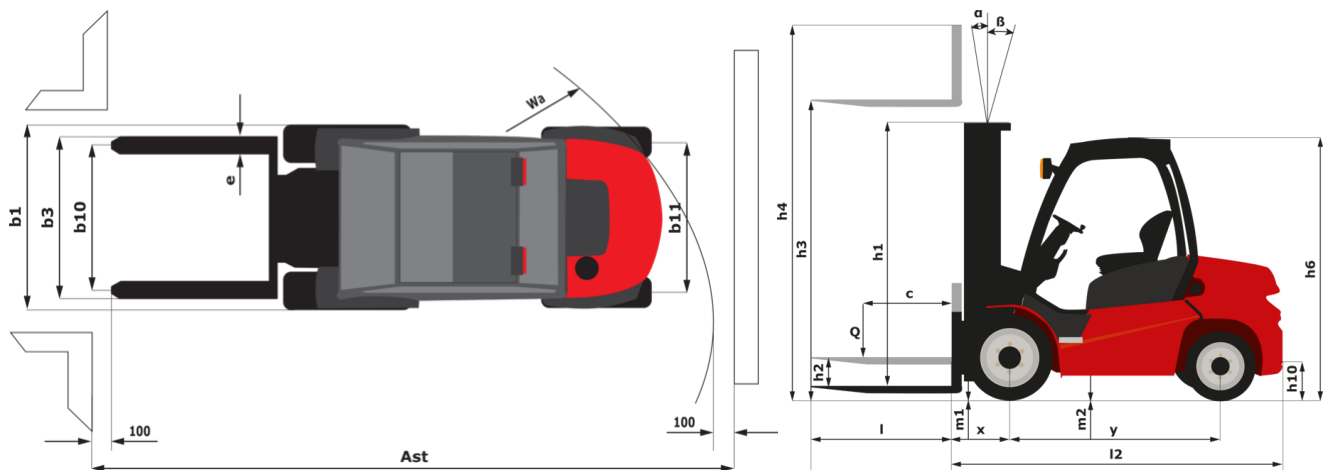
MSI 30 ST5



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MSI 30 ST5
1.3	Power source		Diesel
1.4	Operator type		Sitting
1.5	Max. capacity	Q	6614 lb
1.6	Load centre of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	25 in
1.9	Wheelbase	y	75 in
	Weight		
2.1	Service weight		9700 lb
2.2	Weight on front axle (laden) / rear axle (laden)		14462 lb / 1852 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3660 lb / 6041 lb
	Wheels		
3.1	Tyres type		Pneumatic
3.2	Dimensions of front wheels		300-15/18 6T P43
3.3	Dimensions of rear wheels		7.00-12/12 ED PLUS
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	41 in
3.7	Rear wheel gauge	b11	44 in
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	82 in
4.8	Seat height/stand height	h7	38 in
4.19	Overall length	l1	167 in
4.20	Length to face of forks	l2	119 in
4.21	Overall width	b1	52 in
4.22	Forks section / width / length	s / e / l	2 in x 4 in x 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	50 in
4.31	Ground clearance below mast	m1	10 in
4.32	Ground clearance at centre of wheelbase	m2	9 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	184 in
4.35	Turning radius	Wa	104 in
	Performances		
5.1	Travel speed (laden / unladen)		13 mi/h / 13 mi/h
5.2	Lifting speed (laden / unladen)		2 ft/s / 2 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s / 0.98 ft/s
5.5	Drawbar pull (Laden)		1900 daN
5.7	Gradeability (laden)		27 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	Engine		
7.1	Engine brand / model		Kubota / D1803 CRT E5B
7.2	Engine power according to ISO 1585		37 kW
7.3	Rated speed		2700 rpm
7.4	Number of cylinders / Capacity of cylinders		3 - 111 in³
	Miscellaneous		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments		3191 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 30 ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
h1 - Height mast lowered *	in	7'	7' 6"	8' 4"	9'	9' 10"
h2 - Free lift	in	4"	4"	4"	4"	4"
h3 - Lifting Height	in	9' 10"	10' 10"	12' 2"	13' 1"	14' 9"
h4 - Height mast extended *	in	12' 3"	13' 3"	14' 7"	15' 7"	17' 2"
α / β - Mast inclination (front / rear)	°	12 / 10	12 / 10	12 / 10	12 / 10	12 / 10
Residual capacity at max height	lb	6613.87	6613.87	6613.87	6613.87	6613.87
Residual capacity with hooked-on side shift (Industrial load chart)	lb	6613.87	6613.87	6613.87	6613.87	
Height at max capacity	in	9' 10"	10' 10"	12' 2"	13' 1"	14' 9"
Height at max capacity with hooked-on sideshift	in	9' 10"	10' 10"	12' 2"	13' 1"	

Free Lift Triplex (FLT)		FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 55	FLT 60
h1 - Height mast lowered *	in	6' 4"	6' 8"	7'	7' 6"	7' 10"	9'	9' 10"
h2 - Free lift	in	4'	4' 3"	4' 7"	5' 1"	5' 5"	6' 7"	7' 5"
h3 - Lifting Height	in	11' 2"	12' 2"	13' 1"	14' 1"	15' 5"	18' 1"	19' 8"
h4 - Height mast extended *	in	13' 9"	14' 9"	15' 8"	16' 8"	18'	20' 7"	22' 3"
α / β - Mast inclination (front / rear)	°	12 / 10	12 / 10	12 / 10	12 / 10	12 / 10	6 / 6	6 / 6
Residual capacity at max height	lb	6613.87	6613.87	6613.87	6613.87	5952.48	5070.63	4850.17
Residual capacity with hooked-on side shift (Industrial load chart)	lb	6613.87	6613.87	6613.87	6613.87	5952.48		4850.17
Height at max capacity	in	11' 2"	12' 2"	13' 1"	14' 1"	14' 1"	13' 9"	13' 9"
Height at max capacity with hooked-on sideshift	in	11' 2"	12' 2"	13' 1"	14' 1"	13' 9"		13' 9"

Full Visibility Triplex (FVT)		FVT 33
h1 - Height mast lowered *	in	6'
h2 - Free lift	in	3"
h3 - Lifting Height	in	10' 10"
h4 - Height mast extended *	in	13' 3"
α / β - Mast inclination (front / rear)	°	12 / 10



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