Technical sheet :

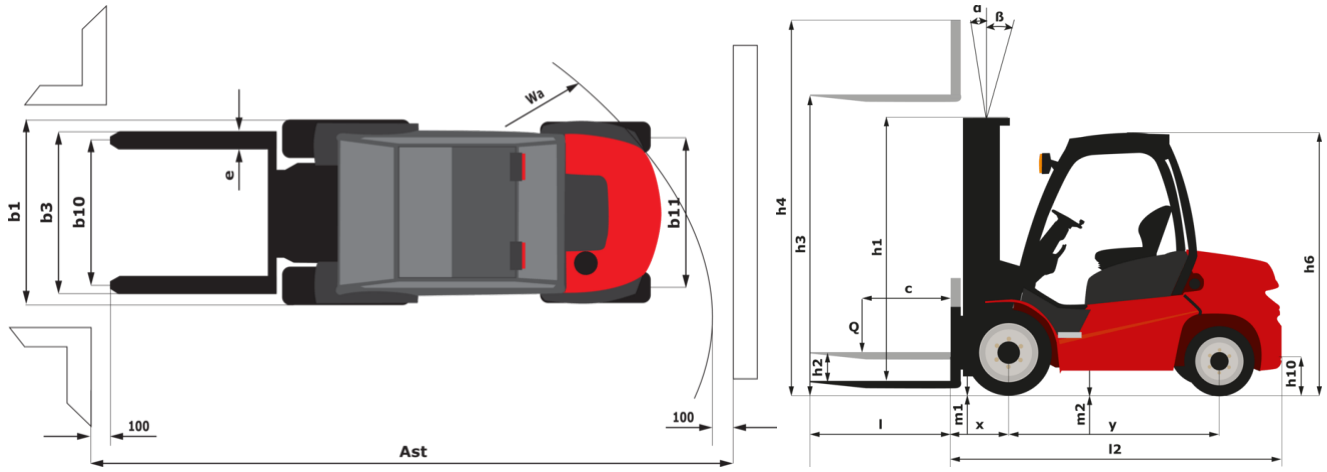
MSI 30 ST5



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MSI 30 ST5	MSI 30 ST5
1.3	Power source		Diesel	Diesel
1.4	Operator type		Sitting	Sitting
1.5	Max. capacity	Q	3000 kg	6614 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	626 mm	25 in
1.9	Wheelbase	y	1900 mm	75 in
	Weight			
2.1	Service weight		4400 kg	9700 lb
2.2	Weight on front axle (laden) / rear axle (laden)		6560 kg / 840 kg	14462 lb / 1852 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1660 kg / 2740 kg	3660 lb / 6041 lb
	Wheels			
3.1	Tires type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		300-15/18 6T P43	300-15/18 6T P43
3.3	Dimensions of rear wheels		7.00-12/12 ED PLUS	7.00-12/12 ED PLUS
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	1044 mm	41 in
3.7	Rear wheel gauge	b11	1108 mm	44 in
	Dimensions			
4.7	Height of overhead guard (cabin)	h6	2095 mm	82 in
4.8	Seat height/stand height	h7	972 mm	38 in
4.19	Overall length	l1	4234 mm	167 in
4.20	Length to face of forks	l2	3034 mm	119 in
4.21	Overall width	b1	1330 mm	52 in
4.22	Forks section / width / length	s / e / l	45 mm x 100 mm x 1200 mm	2 in x 4 in x 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A	3A
4.24	Fork carriage width	b3	1260 mm	50 in
4.31	Ground clearance below mast	m1	260 mm	10 in
4.32	Ground clearance at centre of wheelbase	m2	238 mm	9 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4676 mm	184 in
4.35	Turning radius	Wa	2650 mm	104 in
	Performances			
5.1	Travel speed (laden / unladen)		21 km/h-21 km/h	13 mph-13 mph
5.2	Lifting speed (laden / unladen)		0.50 m/s-0.50 m/s	2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.30 m/s	2 ft/s-0.98 ft/s
5.5	Drawbar pull (Laden)		1900 daN	1900 daN
5.7	Gradeability (laden)		27 %	27 %
5.10	Service brake		Hydraulic brakes by loss of pressure	Hydraulic brakes by loss of pressure
	Engine			
7.1	Engine brand / model		Kubota / D1803 CRT E5B	Kubota / D1803 CRT E5B
7.2	Engine power according to ISO 1585		37 kW	37 kW
7.3	Rated speed		2700 rpm	2700 rpm
7.4	Number of cylinders / Capacity of cylinders		3 - 1826 cm³	3 - 111 in³
	Miscellaneous			
8.1	Type of drive control		Electronic	Electronic
8.2	Working hydraulic pressure for attachments		220 bar	3191 PSI
8.3	Oil flow rate for attachments		45 l/min	12 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		81 dB	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
Mast/fork carriage tilt, forward	°	12	12	12	12	12
Mast/fork carriage tilt, backward	°	10	10	10	10	10
h1 - Mast lowered height	in (mm)	84.1 (2136)	90 (2286)	100.2 (2546)	107.7 (2736)	117.6 (2986)
h2 - Mast free lift	in (mm)	3.5 (90)	3.5 (90)	3.5 (90)	3.5 (90)	3.5 (90)
h3 - Mast lifting height	in (mm)	118.1 (3000)	129.9 (3300)	145.7 (3700)	157.5 (4000)	177.2 (4500)
h4 - Mast extended height	in (mm)	147.2 (3738)	159 (4038)	174.7 (4438)	186.5 (4738)	206.2 (5238)
Residual capacity at max height	lb (kg)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)
Residual capacity with hooked-on side shift at max heigth	lb (kg)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)	
Height at max capacity	in (mm)	118.1 (3000)	129.9 (3300)	145.7 (3700)	157.5 (4000)	177.2 (4500)
Height at max capacity with hooked-on sideshift	in (mm)	118.1 (3000)	129.9 (3300)	145.7 (3700)	157.5 (4000)	

Free Lift Triplex (FLT)		FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 55	FLT 60
Mast/fork carriage tilt, forward	°	12	12	12	12	12	6	6
Mast/fork carriage tilt, backward	°	10	10	10	10	10	6	6
h1 - Mast lowered height	in (mm)	76.2 (1936)	80.2 (2036)	84.1 (2136)	90 (2286)	93.9 (2386)	107.7 (2736)	117.6 (2986)
h2 - Mast free lift	in (mm)	47.6 (1208)	51.5 (1308)	55.4 (1408)	61.3 (1558)	65.3 (1658)	79.1 (2008)	88.9 (2258)
h3 - Mast lifting height	in (mm)	133.9 (3400)	145.7 (3700)	157.5 (4000)	169.3 (4300)	185 (4700)	216.5 (5500)	236.2 (6000)
h4 - Mast extended height	in (mm)	164.7 (4184)	176.5 (4484)	188.3 (4784)	200.2 (5084)	215.9 (5484)	247.4 (6284)	267.1 (6784)
Residual capacity at max height	lb (kg)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)	5952 (2700)	5071 (2300)	4850 (2200)
Residual capacity with hooked-on side shift at max heigth	lb (kg)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)	5181 (2350)		4850 (2200)
Height at max capacity	in (mm)	133.9 (3400)	145.7 (3700)	157.5 (4000)	169.3 (4300)	169.3 (4300)	165.4 (4200)	165.4 (4200)
Height at max capacity with hooked-on sideshift	in (mm)	133.9 (3400)	145.7 (3700)	157.5 (4000)	169.3 (4300)	165.4 (4200)		165.4 (4200)

Full Visibility Triplex (FVT)		FVT 33
Mast/fork carriage tilt, forward	°	12
Mast/fork carriage tilt, backward	°	10
h1 - Mast lowered height	in (mm)	71.9 (1826)
h2 - Mast free lift	in (mm)	3 (77)
h3 - Mast lifting height	in (mm)	129.9 (3300)
h4 - Mast extended height	in (mm)	158.5 (4027)
Height at max capacity	in (mm)	98.4 (2500)

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