

Technical sheet :

MSI 25 ST5



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics			Metric	
1.1	Manufacturer			Manitou
1.2	Model Name			MSI 25 ST5
1.3	Power source			Diesel
1.4	Operator type			Seated
1.5	Max. capacity	Q		2500 kg
1.6	Load center of gravity	c		500 mm
1.8	Load distance, centre of drive axle to fork	x		621 mm
1.9	Wheelbase	y		1900 mm
	Standard mast reference of the machine			FVD 33
Weight				
2.1	Service weight			3900 kg
2.2	Weight on front axle (laden) / rear axle (laden)			5730 kg / 670 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)			1590 kg / 2310 kg
Wheels				
3.1	Tires 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		1044 mm
3.7	Rear wheel gauge	b11		1108 mm
Dimensions				
4.7	Height of overhead guard (cabin)	h6		2095 mm
4.8	Seat height/stand height	h7		972 mm
4.19	Overall length	l1		4193 mm
4.20	Length to face of forks	l2		2993 mm
4.21	Overall width	b1		1330 mm
4.22	Forks section / width / length	s / e / l		40 mm x 100 mm x 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B			2A
4.24	Fork carriage width	b3		1260 mm
4.31	Ground clearance below mast	m1		260 mm
4.32	Ground clearance at centre of wheelbase	m2		238 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast		4641 mm
4.35	Turning radius	Wa		2620 mm
Performances				
5.1	Travel speed (laden / unladen)			21 km/h-21 km/h
5.2	Lifting speed (laden / unladen)			0.50 m/s-0.50 m/s
5.3	Lowering speed (laden / unladen)			0.50 m/s-0.30 m/s
5.5	Drawbar pull (Laden)			1900 daN
5.7	Gradeability (laden)			31 %
5.10	Service brake			Hydraulic brakes by loss of pressure
Engine				
7.1	Engine brand / model / norm			Kubota / D1803 CRT E5B / Stage V
7.2	I.C. Engine power rating			37 kW
7.3	Rated speed			2700 rpm
7.4	Number of cylinders / Capacity of cylinders			3 - 1826 cm³
Miscellaneous				
8.1	Type of drive control			Electronic
8.2	Working hydraulic pressure for attachments			220 bar
8.3	Oil flow rate for attachments			45 l/min
8.4	Sound level at the driver's ear according to DIN 12 053			81 dB

MSI 25 ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	FVD 30	FVD 33	FVD 37	FVD 40	FVD 45	
α - Mast/fork carriage tilt, forward	°	12	12	12	12	12
β - Mast/fork carriage tilt, backward	°	10	10	10	10	10
h1 - Mast lowered height	mm	2136	2286	2546	2736	2986
h2 - Mast free lift	mm	85	85	85	85	85
h3 - Mast lifting height	mm	3000	3300	3700	4000	4500
h4 - Mast extended height	mm	3738	4038	4438	4738	5238
Residual capacity at max height	kg	2500	2500	2500	2500	2500
Residual capacity with hooked-on side shift at max height	kg	2500	2500	2500	2500	2500
Height at max capacity	mm	3000	3300	3700	4000	4500
Height at max capacity with hooked-on sideshift	mm	3000	3300	3700	4000	4500

Free Lift Triplex (FLT)	FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 55	FLT 60	
α - Mast/fork carriage tilt, forward	°	12	12	12	12	12	6	6
β - Mast/fork carriage tilt, backward	°	10	10	10	10	10	6	6
h1 - Mast lowered height	mm	1936	2036	2136	2286	2386	2736	2986
h2 - Mast free lift	mm	1183	1283	1383	1483	1633	1893	2083
h3 - Mast lifting height	mm	3400	3700	4000	4300	4700	5500	6000
h4 - Mast extended height	mm	4184	4484	4784	5116	5484	6356	6916
Residual capacity at max height	kg	2500	2500	2500	2500	2500	2300	
Residual capacity with hooked-on side shift at max height	kg	2500	2500	2500	2500	2500	2300	
Height at max capacity	mm	3400	3700	4000	4300	4700	5200	2500
Height at max capacity with hooked-on sideshift	mm	3400	3700	4000	4300	4700	5200	

Full Visibility Triplex (FVT)	FVT 33	
α - Mast/fork carriage tilt, forward	°	12
β - Mast/fork carriage tilt, backward	°	10
h1 - Mast lowered height	mm	1826
h2 - Mast free lift	mm	72
h3 - Mast lifting height	mm	3300
h4 - Mast extended height	mm	4027
Height at max capacity	mm	2500



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