

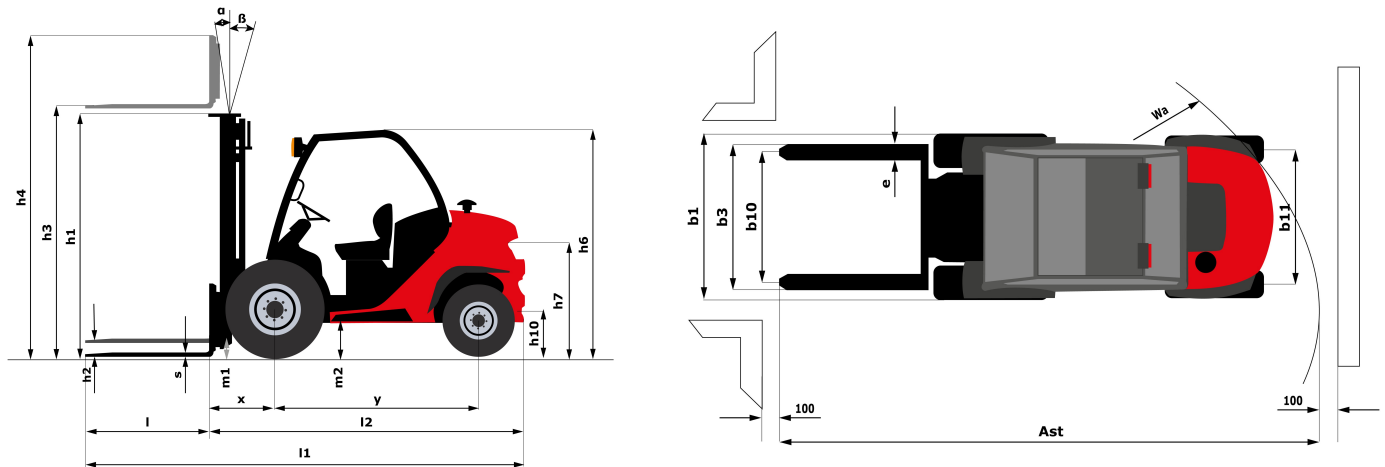
Technical sheet :

MSI 25 ST5



	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 centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	621 mm
1.9	Wheelbase	y	1900 mm
	Weight		
2.1	Service weight		4003 kg
2.2	Weight on front axle (laden) / rear axle (laden)		5729 kg / 894 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1606 kg / 2397 kg
	Wheels		
3.1	Tyres type		Pneumatic
3.2	Dimensions of front wheels		300-15/18 6T R43
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		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	12 / 10
4.7	Height of overhead guard (cabin)	h6	2095 mm
4.7	Overall height of standard overhead guard	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 / 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 1000 x 1200 pallet widthways	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)		0.5 m/s / 0.5 m/s
5.3	Lowering speed (laden / unladen)		0.5 m/s / 0.3 m/s
5.5	Drawbar pull (Laden / Unladen)		2010 daN / 1250 daN
5.7	Gradeability (laden / unladen)		33 % / 34 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	Engine		
7.1	Engine brand / model / norm		Kubota / D1803 CRT ESB / Stage V
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 - 1826 cm ³
7.5	Fuel consumption according to VDI cycle		5.2 l/h
	Miscellaneous		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments		230 Bar
8.3	Oil flow rate for attachments		48 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 75 dB(A)

Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
h1 - Height mast lowered *	mm	2136	2286	2546	2736	2986
h2 - Free lift	mm	85	85	85	85	85
h3 - Lifting Height	mm	3000	3300	3700	4000	4500
h4 - Height mast extended *	mm	3738	4038	4438	4738	5238
α / β - Mast inclination (front / rear)	°	12 / 10	12 / 10	12 / 10	12 / 10	12 / 10
Residual capacity with hooked-on side shift (Industrial load chart)	kg			2500	2500	2500
Height at max capacity	mm	3000	3300	3700	4000	4500
Residual capacity without attachment (Industrial load chart)	kg	2500	2500	2500	2500	2500
Height at max capacity with hooked-on sideshift	mm	3000	3300	3700	4000	4500

Free Lift Triplex		FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 55	FLT 60
h1 - Height mast lowered *	mm	1936	2036	2136	2286	2386	2736	2986
h2 - Free lift	mm	1183	1283	1383	1483	1633	1893	2083
h3 - Lifting Height	mm	3400	3700	4000	4300	4700	5500	6000
h4 - Height mast extended *	mm	4184	4484	4784	5116	5484	6356	6916
α / β - Mast inclination (front / rear)	°	12 / 10	12 / 10	12 / 10	12 / 10	12 / 10	6 / 6	6 / 6
Height at max capacity	mm	3400	3700	4000	4300	4700		
Residual capacity without attachment (Industrial load chart)	kg	2500	2500	2500	2500	2500		
Height at max capacity with hooked-on sideshift	mm	3400	3700	4000	4300	4700		

Full Visibility Triplex		FVT 33
h1 - Height mast lowered *	mm	1826
h2 - Free lift	mm	72
h3 - Lifting Height	mm	3300
h4 - Height mast extended *	mm	4027
α / β - Mast inclination (front / rear)	°	10 / 12



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