

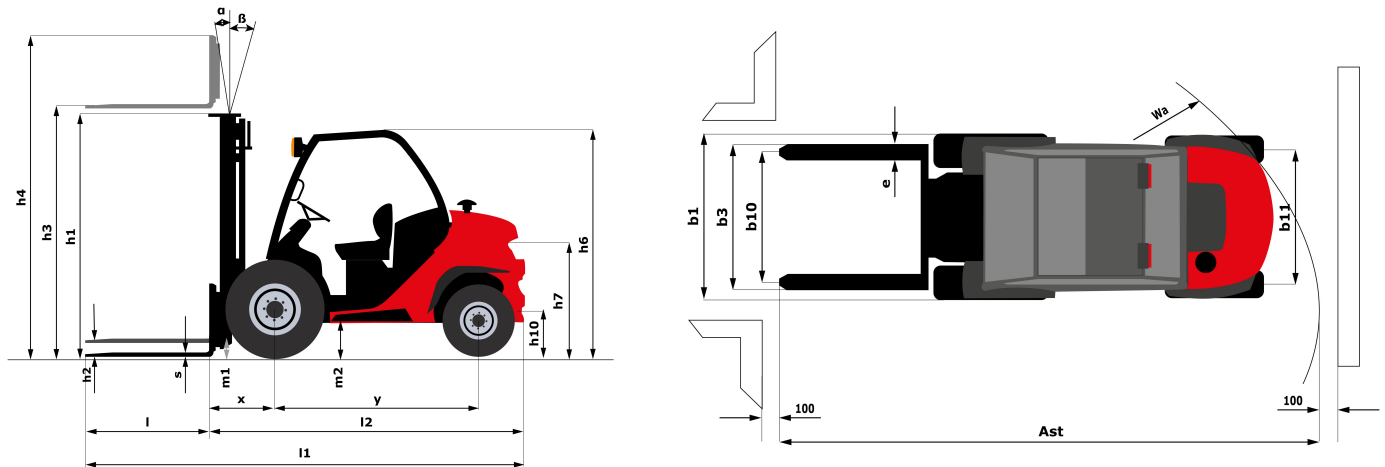
Technical sheet :

MSI 35 ST5



	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		MSI 35 ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	3500 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	631 mm
1.9	Wheelbase	y	1900 mm
	Weight		
2.1	Service weight		4730 kg
2.2	Weight on front axle (laden) / rear axle (laden)		7247 kg / 989 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1664 kg / 3066 kg
	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	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	4239 mm
4.20	Length to face of forks	l2	3139 mm
4.21	Overall width	b1	1330 mm
4.22	Forks section / width / length	s / e / l	45 mm x 125 mm / 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
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	4711 mm
4.35	Turning radius	Wa	2680 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)		2070 daN / 1380 daN
5.7	Gradeability (laden / unladen)		26 % / 31 %
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
	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	3650	2286	2546	2736	2986
h2 - Free lift	mm	90	90	90	90	90
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)	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity with hooked-on side shift (Industrial load chart)	kg	3500	3500	3500		
Height at max capacity	mm	3000	3300	3700		
Residual capacity without attachment (Industrial load chart)	kg	3500	3500	3500		
Height at max capacity with hooked-on sideshift	mm	3000	3300	3700		

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	1208	1308	1408	1558	1658	2008	2258
h3 - Lifting Height	mm	3400	3700	4000	4300	4700	5500	6000
h4 - Height mast extended *	mm	4184	4484	4784	5084	5484	6284	6784
α / β - Mast inclination (front / rear)	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	6 / 6	6 / 6
Height at max capacity	mm	3400				4000		
Residual capacity without attachment (Industrial load chart)	kg	3500				2400		



Siège Social
430 rue de l'Aubinière - 44150 Ancenis Cedex - France
Tel: +33(0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97
www.manitou.com



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