

Technical sheet :

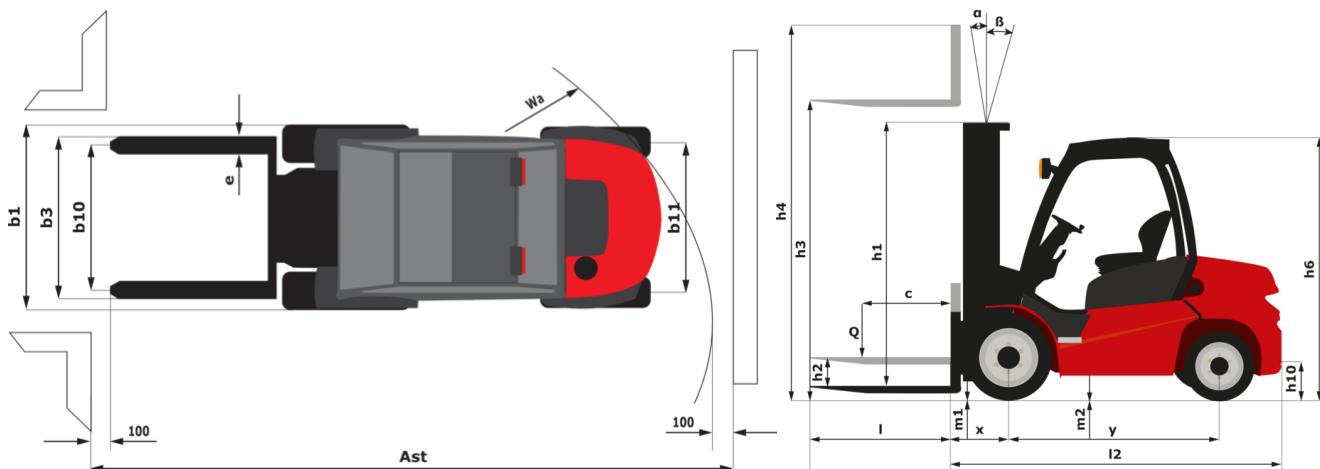
MSI 35 ST5



 **MANITOU**
HANDLING YOUR WORLD

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	3500 kg	
1.6	Load center of gravity	500 mm	
1.8	Load distance, centre of drive axle to fork	631 mm	
1.9	Wheelbase	1900 mm	
	Standard mast reference of the machine	FVD 33	
Weight		Weight	
2.1	Service weight	4780 kg	
2.2	Weight on front axle (laden) / rear axle (laden)	7350 kg / 850 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	1710 kg / 3070 kg	
Wheels		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	1044 mm	
3.7	Rear wheel gauge	1108 mm	
Dimensions		Dimensions	
4.8	Seat height/stand height	972 mm	
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggy version)	2095 mm / 1930 mm	
4.19	Overall length	4289 mm	
4.20	Length to face of forks	3139 mm	
4.21	Overall width	1330 mm	
4.22	Forks section / width / length	45 mm x 125 mm x 1200 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B	3A	
4.24	Fork carriage width	1260 mm	
4.31	Ground clearance below mast	260 mm	
4.32	Ground clearance at centre of wheelbase	238 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	4711 mm	
4.35	Turning radius	2680 m	
Performances		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)	24 %	
5.10	Service brake	Hydraulic brakes by loss of pressure	
	Transmission type	Hydrostatic	
Engine		Engine	
7.1	Engine brand / model / norm	Kubota / D1803 CRT E5B / Stage V	
7.2	Engine power (Hp / kW)	50 Hp/37 kW	
7.3	Rated speed	2700 rpm	
7.4	Number of cylinders / Capacity of cylinders	3 - 1826 cm ³	
Miscellaneous		Miscellaneous	
8.1	Type of drive control	Electronic	
8.2	Working hydraulic pressure for attachments	230 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 35 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
β - Mast/fork carriage tilt, backward	°	10	10	10	10
h1 - Mast lowered height	mm	2136	2286	2546	2736
h2 - Mast free lift	mm	90	90	90	90
h3 - Mast lifting height	mm	3000	3300	3700	4000
h4 - Mast extended height	mm	3738	4038	4438	4738
Residual capacity at max height	kg	3500	3500	3500	3500
Residual capacity with hooked-on side shift at max height	kg	3500	3500	3500	3500
Height at max capacity	mm	3000	3300	3700	4000
Height at max capacity with hooked-on sideshift	mm	3000	3300	3700	4000

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	6	6
β - Mast/fork carriage tilt, backward	°	10	10	10	10	6	6
h1 - Mast lowered height	mm	1936	2036	2136	2286	2386	2736
h2 - Mast free lift	mm	1208	1308	1408	1558	1658	2008
h3 - Mast lifting height	mm	3400	3700	4000	4300	4700	5500
h4 - Mast extended height	mm	4184	4484	4784	5084	5484	6284
Residual capacity at max height	kg	3500	3500	3500	2600	1800	
Residual capacity with hooked-on side shift at max height	kg	3500	3500	3500	3200	1800	
Height at max capacity	mm	3400	3700	4000	4000	3500	2500
Height at max capacity with hooked-on sideshift	mm	3400	3700	4000	4000	3500	2500



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