Technical sheet :

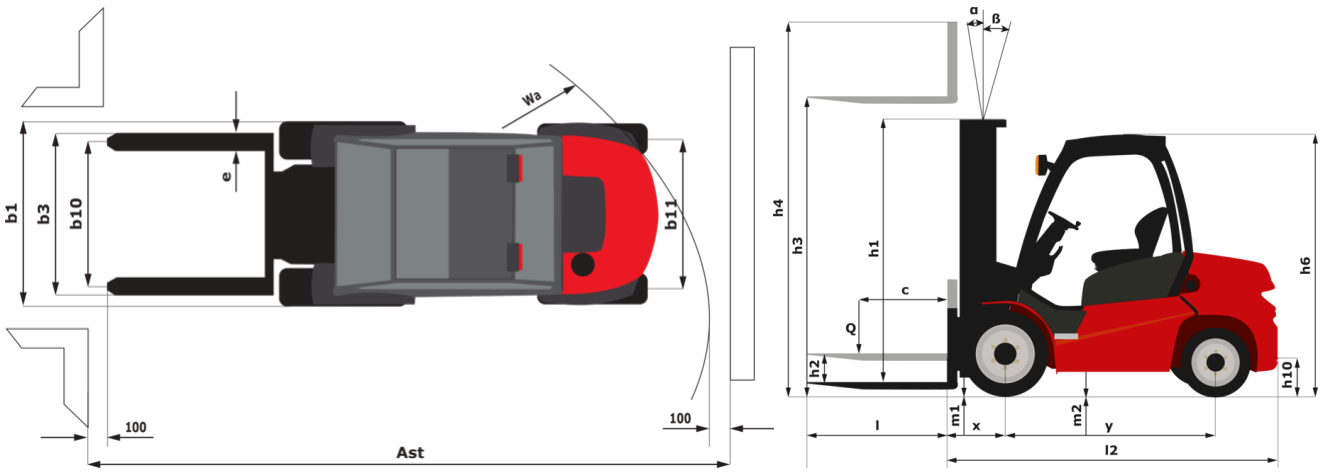
MSI 35



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		MSI 35
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	3500 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	630 mm
1.9	Wheelbase	y	2000 mm
	Standard mast reference of the machine		FVD 33
	Weight		
2.1	Service weight		4496 kg
2.2	Weight on front axle (laden) / rear axle (laden)		7046 kg / 950 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1580 kg / 2916 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		
4.8	Seat height/stand height	h7	1066 mm
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6	2117 mm / 1969 mm
4.19	Overall length	l1	4440 mm
4.20	Length to face of forks	l2	3240 mm
4.21	Overall width	b1	1330 mm
4.22	Forks section / width / length	s / e / l	45 mm x 125 mm x 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	236 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4610 mm
4.35	Turning radius	Wa	2787 m
	Performances		
5.1	Travel speed (laden / unladen)		10 km/h-20 km/h
5.2	Lifting speed (laden / unladen)		0.47 m/s-0.47 m/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.30 m/s
5.5	Drawbar pull (Laden)		2050 daN
5.7	Gradeability (laden)		27 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	Transmission type		Hydrostatic
	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		2800 rpm
7.4	Number of cylinders / Capacity of cylinders		3 - 1826 cm³
7.5	Fuel consumption according to VDI cycle		4.40 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		46 l/min

MSI 35 - 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	90	90	90	90	90
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	3500	3500	3500	3500	3500
Residual capacity with hooked-on side shift at max heigth	kg	3500	3500	3500	3500	3400
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 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	12	12	12	12	12	12	6	6
β - Mast/fork carriage tilt, backward	°	10	10	10	10	10	10	6	6
h1 - Mast lowered height	mm	1936	2036	2136	2286	2386	2546	2736	2986
h2 - Mast free lift	mm	1208	1308	1408	1558	1658	1818	2008	2258
h3 - Mast lifting height	mm	3400	3700	4000	4300	4700	5000	5500	6000
h4 - Mast extended height	mm	4184	4484	4784	5084	5484	5784	6284	6784
Residual capacity at max height	kg	3500	3500	3500	3500	3500	3500		
Residual capacity with hooked-on side shift at max heigth	kg	3130	3150	3110	3200	3100	3100		
Height at max capacity	mm	3400	3700	4000	4300	4700	5000		
Height at max capacity with hooked-on sideshift	mm	3400	3700	4000	4300	4700	5000		

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