

Technical sheet :

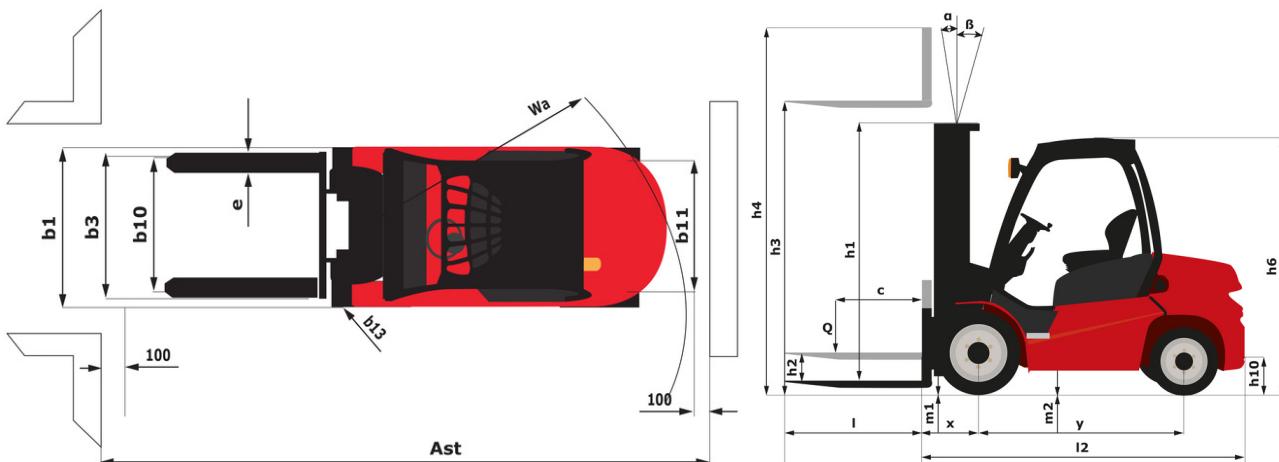
# MI 100 D ST5



 **MANITOU**  
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer	Manitou	
1.2	Model Name	MI 100 D ST5	
1.3	Power source	Diesel	
1.4	Operator type	Seated	
1.5	Max. capacity	10000 kg	
1.6	Load center of gravity	600 mm	
1.8	Load distance, centre of drive axle to fork	726 mm	
1.9	Wheelbase	2800 mm	
	Standard mast reference of the machine	FVD 30	
Weight		Weight	
2.1	Service weight	14340 kg	
2.2	Weight on front axle (laden) / rear axle (laden)	21885 kg / 2455 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	6790 kg / 7550 kg	
Wheels		Wheels	
3.1	Tires type	Pneumatic	
3.2	Dimensions of front wheels	9.00-20-14PR	
3.3	Dimensions of rear wheels	9.00-20-14PR	
3.5	Number of front wheels / rear wheels	4 / 2	
3.5.2	Number of drive wheels	4	
3.6	Front wheel gauge	1628 mm	
3.7	Rear wheel gauge	1700 mm	
Dimensions		Dimensions	
4.8	Seat height/stand height	1350 mm	
4.7	Height of overhead guard (cabin)	2580 mm	
4.12	Height of towing bar (coupling height)	505 mm	
4.19	Overall length	5756 mm	
4.20	Length to face of forks	4236 mm	
4.21	Overall width	2165 mm	
4.21	Overall width - Twinned wheels	2165 mm	
4.22	Forks section / width / length	80 mm x 160 mm x 1520 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B	5A	
4.24	Fork carriage width	2100 mm	
4.31	Ground clearance below mast	250 mm	
4.32	Ground clearance at centre of wheelbase	339 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	5866 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	6066 mm	
4.35	Turning radius	3940 mm	
4.36	Internal turning radius (over tyres)	1396 mm	
Performances		Performances	
5.1	Travel speed (laden / unladen)	26 km/h-27 km/h	
5.2	Lifting speed (laden / unladen)	0.32 m/s-0.34 m/s	
5.3	Lowering speed (laden / unladen)	0.43 m/s-0.39 m/s	
5.5	Drawbar pull (Laden / Unladen)	7200 daN / 4900 daN	
5.7	Gradeability (laden)	28 %	
5.10	Service brake	Hydraulic	
	Transmission type	Torque converter	
Engine		Engine	
7.1	Engine brand / model / nom	Deutz / TCD 3.6 / Stage V	
7.2	Engine power (Hp / kW)	116 Hp/85 kW	
7.3	Rated speed	2200 rpm	
7.4	Number of cylinders / Capacity of cylinders	4 - 3600 cm <sup>3</sup>	
Miscellaneous		Miscellaneous	
8.2	Working hydraulic pressure for attachments	195 bar	
8.3	Oil flow rate for attachments	55 l/min	
8.4	Measured/guaranteed mean noise level at the ear of the operator	84 dB	

## MI 100 D ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	FVD 30	FVD 33	FVD 36	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward °	6.20	6.20	6.20	6.20	6.20	6.20
β - Mast/fork carriage tilt, backward °	12.20	12.20	12.20	12.20	6.20	6.20
h1 - Mast lowered height mm	2850	3000	3150	3350	3650	3900
h2 - Mast free lift mm	200	200	200	200	200	200
h3 - Mast lifting height mm	3000	3300	3600	4000	4500	5000
h4 - Mast extended height mm	4555	4855	5155	5555	6055	6555
Residual capacity at max height kg	10000	10000	10000	10000	10000	10000
Height at max capacity mm	3000	2500	3600	2500	2500	5000
Height at max capacity with integrated sideshift mm	3000		3600			5000

Free Lift Triplex (FLT)	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward °	6.20	6.20	6.20	3.20	3.20
β - Mast/fork carriage tilt, backward °	6.20	6.20	6.20	6.20	6.20
h1 - Mast lowered height mm	2850	2950	3050	3200	3350
h2 - Mast free lift mm	1305	1405	1505	1655	1805
h3 - Mast lifting height mm	4500	4800	5000	5500	6000
h4 - Mast extended height mm	6055	6355	6555	7055	7555
Residual capacity at max height kg	8500	8500	8200	7700	7000
Height at max capacity mm	4500	4800	5000	5500	6000
Height at max capacity with integrated sideshift mm	4500	4800	5000	5500	6000



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