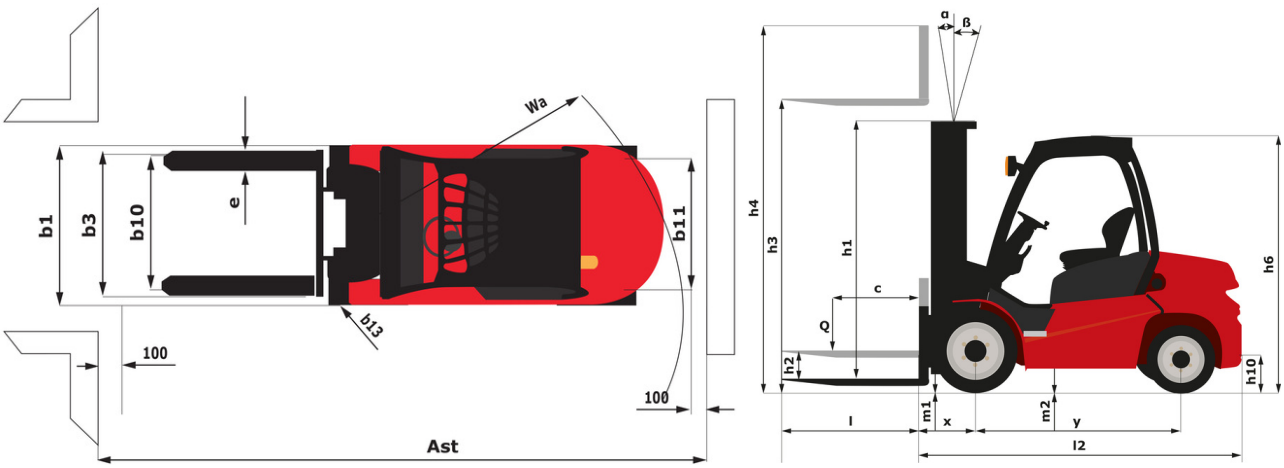
Technical sheet :

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	Q	10000 kg
1.6	Load center of gravity	c	600 mm
1.8	Load distance, centre of drive axle to fork	x	726 mm
1.9	Wheelbase	y	2800 mm
	Standard mast reference of the machine		FVD 30
	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		
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	b10	1628 mm
3.7	Rear wheel gauge	b11	1700 mm
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	2580 mm
4.8	Seat height/stand height	h7	1350 mm
4.12	Height of towing bar (coupling height)	h10	505 mm
4.19	Overall length	l1	5756 mm
4.20	Length to face of forks	l2	4236 mm
4.21	Overall width	b1	2165 mm
4.21	Overall width - Twinned wheels	b1	2165 mm
4.22	Forks section / width / length	s / e / l	80 mm x 160 mm x 1520 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		5A
4.24	Fork carriage width	b3	2100 mm
4.31	Ground clearance below mast	m1	250 mm
4.32	Ground clearance at centre of wheelbase	m2	339 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	5866 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	6066 mm
4.35	Turning radius	Wa	3940 mm
4.36	Internal turning radius (over tyres)	b13	1396 mm
	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		
7.1	Engine brand / model / norm		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 cm³
	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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