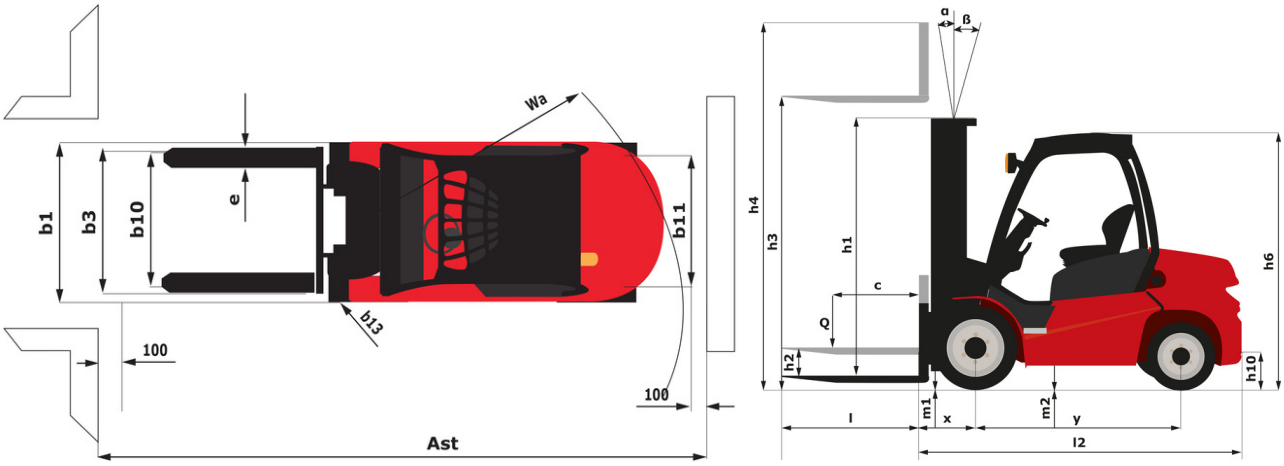
Technical sheet :

MI 80 D ST5

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		MI 80 D ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	8000 kg
1.6	Load center of gravity	c	600 mm
1.8	Load distance, centre of drive axle to fork	x	714 mm
1.9	Wheelbase	y	2600 mm
	Standard mast reference of the machine		FVD 30
	Weight		
2.1	Service weight		12540 kg
2.2	Weight on front axle (laden) / rear axle (laden)		18340 kg / 2200 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		5180 kg / 7360 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	5524 mm
4.20	Length to face of forks	l2	4004 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	75 mm x 160 mm x 1520 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		4A
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	5644 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	5844 mm
4.35	Turning radius	Wa	3730 mm
4.36	Internal turning radius (over tyres)	b13	1327 mm
	Performances		
5.1	Travel speed (laden / unladen)		26 km/h-27 km/h
5.2	Lifting speed (laden / unladen)		0.38 m/s-0.40 m/s
5.3	Lowering speed (laden / unladen)		0.43 m/s-0.39 m/s
5.5	Drawbar pull (Laden / Unladen)		6500 daN / 4500 daN
5.7	Gradeability (laden / unladen)		35 % / 35 %
5.10	Service brake		Hydraulic
	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 80 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	2700	2850	3000	3200	3500	3750
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	4210	4510	4810	5210	5710	6210
Residual capacity at max height	kg	8000	8000	8000	8000	8000	8000
Height at max capacity	mm	3000	3300	3600	4000	4500	5000
Height at max capacity with integrated sideshift	mm	3000	3300	3600	4000	4500	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	2750	2850	2950	3100	3250
h2 - Mast free lift	mm	1485	1585	1600	1800	1985
h3 - Mast lifting height	mm	4500	4800	5000	5500	6000
h4 - Mast extended height	mm	5775	6075	6360	6810	7275
Residual capacity at max height	kg	7000	7000	6500	6100	5600
Height at max capacity	mm	4500	4800	5000	5500	6000
Height at max capacity with integrated sideshift	mm	4500	4800	5000	5500	6000

Head Office
B.P. 249 - 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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