

Technical sheet :

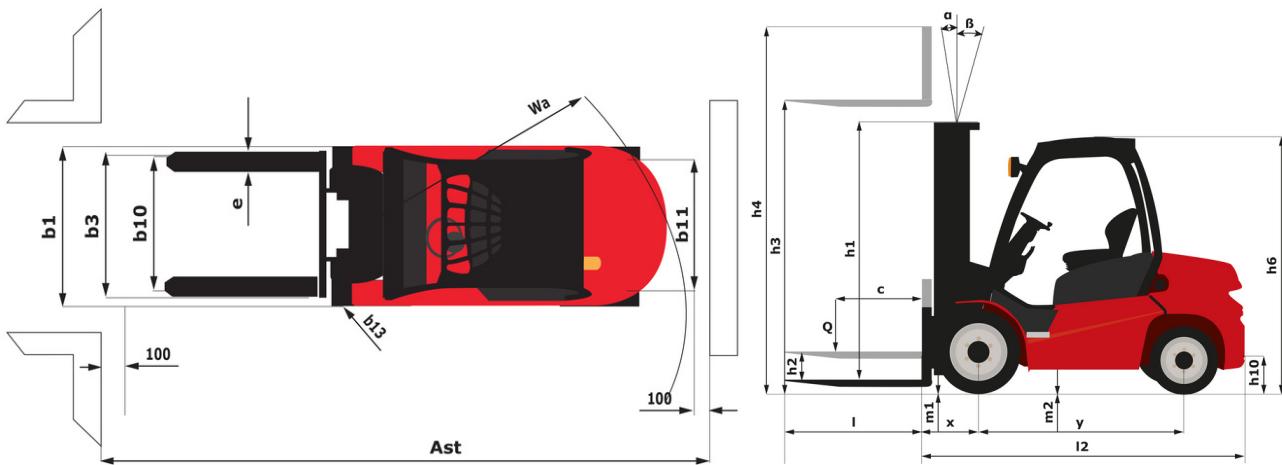
MI 80 D ST5



 **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	8000 kg	
1.6	Load center of gravity	600 mm	
1.8	Load distance, centre of drive axle to fork	714 mm	
1.9	Wheelbase	2600 mm	
	Standard mast reference of the machine	FVD 30	
Weight		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		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	5524 mm	
4.20	Length to face of forks	4004 mm	
4.21	Overall width	2165 mm	
4.21	Overall width - Twinned wheels	2165 mm	
4.22	Forks section / width / length	75 mm x 160 mm x 1520 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B	4A	
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	5644 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	5844 mm	
4.35	Turning radius	3730 mm	
4.36	Internal turning radius (over tyres)	1327 mm	
Performances		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		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 cm ³	
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 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



MANITOU HANDLING YOUR WORLD

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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