

Technical sheet :

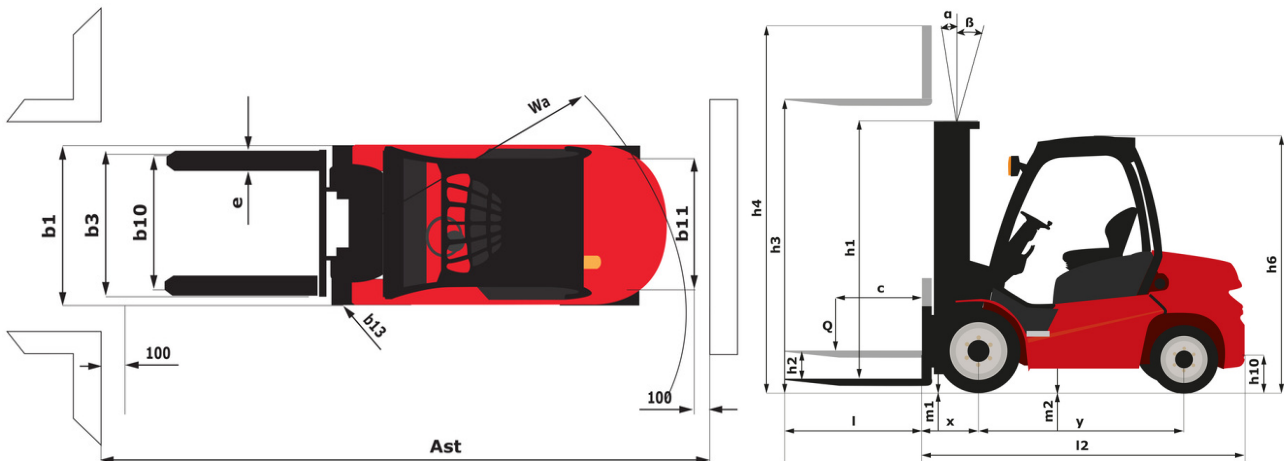
MI 70 D ST5



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics			Metric		
1.1	Manufacturer				MANITOU
1.2	Model Name				MI 70 D ST5
1.3	Power source				Diesel
1.4	Operator type				Seated
1.5	Max. capacity	Q			7000 kg
1.6	Load center of gravity	c			600 mm
1.8	Load distance, centre of drive axle to fork	x			603 mm
1.9	Wheelbase	y			2300 mm
	Standard mast reference of the machine				FVD 30
Weight					
2.1	Service weight				10110 kg
2.2	Weight on front axle (laden) / rear axle (laden)				15290 kg / 1820 kg
Wheels					
3.1	Tires type				Super Elastic
3.2	Dimensions of front wheels				8.25-15 14PR
3.3	Dimensions of rear wheels				8.25-15 14PR
3.5	Number of front wheels / rear wheels				4 / 2
3.5.2	Number of drive wheels				2
3.6	Front wheel gauge	b10			1489 mm
3.7	Rear wheel gauge	b11			1700 mm
Dimensions					
4.7	Height of overhead guard (cabin)	h6			2430 mm
4.8	Seat height/stand height	h7			1350 mm
4.12	Height of towing bar (coupling height)	h10			710 mm
4.19	Overall length	l1			4804 mm
4.20	Length to face of forks	l2			3604 mm
4.21	Overall width	b1			1990 mm
4.21	Overall width - Twinned wheels	b1			1990 mm
4.22	Forks section / width / length	s / e / l			65 mm x 150 mm x 1220 mm
4.23	Fork carriage ISO 2328 (class/form) A/B				4A
4.24	Fork carriage width	b3			1700 mm
4.31	Ground clearance below mast	m1			190 mm
4.32	Ground clearance at centre of wheelbase	m2			270 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast			5350 mm
4.36	Internal turning radius (over tyres)	b13			110 mm
Performances					
5.1	Travel speed (laden / unladen)				23 km/h-24 km/h
5.2	Lifting speed (laden / unladen)				0.36 m/s-0.41 m/s
5.3	Lowering speed (laden / unladen)				0.48 m/s-0.42 m/s
5.5	Drawbar pull (Laden / Unladen)				6500 daN / 2750 daN
5.7	Gradeability (laden / unladen)				20 % / 20 %
5.10	Service brake				Hydraulic
Engine					
7.1	Engine brand / model				Deutz / TCD 3.6 L4
7.2	I.C. Engine power rating				55.40 kW
7.3	Rated speed				2300 rpm
7.4	Number of cylinders / Capacity of cylinders				4 - 3621 cm³
Miscellaneous					
8.3	Oil flow rate for attachments				165 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator				< 84 dB

MI 70 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	6	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12	12	6
h1 - Mast lowered height	mm	2500	2650	2800	3000	3300
h2 - Mast free lift	mm	160	160	160	160	160
h3 - Mast lifting height	mm	3000	3300	3600	4000	4500
h4 - Mast extended height	mm	4167	4467	4767	5167	5667
Residual capacity at max height	kg	7000	7000	7000	7000	7000
Residual capacity with hooked-on side shift at max height	kg	6500	6500	6500	6500	6500
Height at max capacity	mm	3000	3300	3600	4000	4500
Height at max capacity with hooked-on sideshift	mm	3000	3300	3600	4000	4500

Free Lift Duplex (FLD)	FLD 30	FLD 33	FLD 36	FLD 40
α - Mast/fork carriage tilt, forward	°	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	mm	2450	2600	2750
h2 - Mast free lift	mm	1335	1485	1635
h3 - Mast lifting height	mm	3000	3300	3600
h4 - Mast extended height	mm	4115	4415	4715
Residual capacity at max height	kg	7000	7000	7000
Residual capacity with hooked-on side shift at max height	kg	6500	6500	6500
Height at max capacity	mm	3000	3300	3600
Height at max capacity with hooked-on sideshift	mm	3000	3300	3600

Free Lift Triplex (FLT)	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	6	6	6	3
β - Mast/fork carriage tilt, backward	°	6	6	6	6
h1 - Mast lowered height	mm	2725	2825	2875	3075
h2 - Mast free lift	mm	1500	1600	1672	1800
h3 - Mast lifting height	mm	4500	4800	5000	5500
h4 - Mast extended height	mm	5735	6035	6213	6785
Residual capacity at max height	kg	6400	6300	6300	6100
Residual capacity with hooked-on side shift at max height	kg	5900	5800	5800	5600
Height at max capacity	mm	4000	4000	4000	4000
Height at max capacity with hooked-on sideshift	mm	4000	4000	4000	4000



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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