

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
4.31	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



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