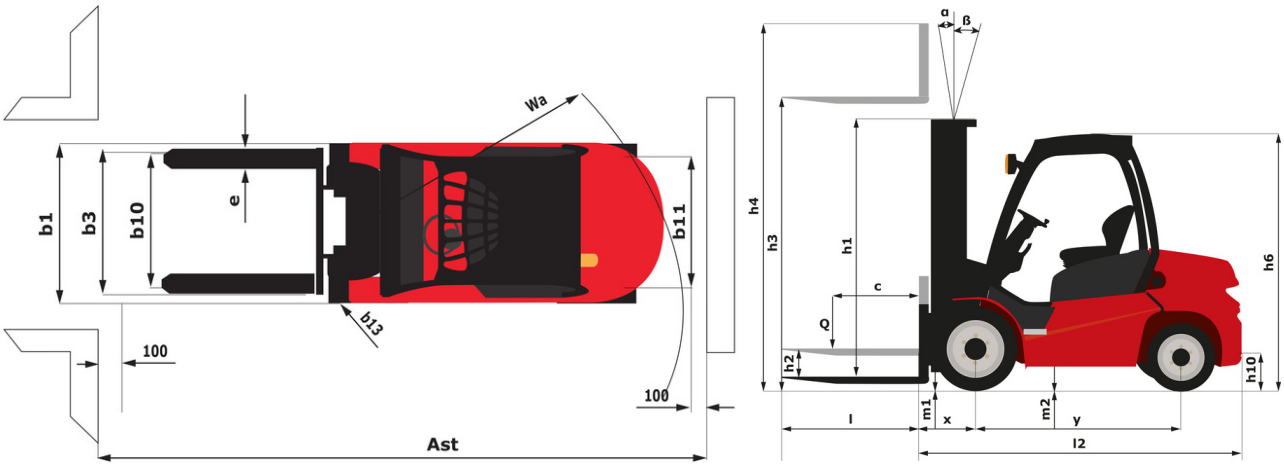
Technical sheet :

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		Solid tires
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 / norm		Deutz / TCD 3.6 L4 / Stage V
7.2	Engine power (Hp / kW)		75 Hp/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	6
β - Mast/fork carriage tilt, backward	°	12	12	12	12	6	6
h1 - Mast lowered height	mm	2500	2650	2800	3000	3300	3550
h2 - Mast free lift	mm	160	160	160	160	160	160
h3 - Mast lifting height	mm	3000	3300	3600	4000	4500	5000
h4 - Mast extended height	mm	4167	4467	4767	5167	5667	6167
Residual capacity at max height	kg	7000	7000	7000	7000	7000	7000
Residual capacity with hooked-on side shift at max heigth	kg	6500	6500	6500	6500	6500	6500
Height at max capacity	mm	3000	3300	3600	4000	4500	5000
Height at max capacity with hooked-on sideshift	mm	3000	3300	3600	4000	4500	5000

Free Lift Duplex (FLD)		FLD 30	FLD 33	FLD 36	FLD 40
α - Mast/fork carriage tilt, forward	°	6	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12	12
h1 - Mast lowered height	mm	2450	2600	2750	2950
h2 - Mast free lift	mm	1335	1485	1635	1835
h3 - Mast lifting height	mm	3000	3300	3600	4000
h4 - Mast extended height	mm	4115	4415	4715	5115
Residual capacity at max height	kg	7000	7000	7000	7000
Residual capacity with hooked-on side shift at max heigth	kg	6500	6500	6500	6500
Height at max capacity	mm	3000	3300	3600	4000
Height at max capacity with hooked-on sideshift	mm	3000	3300	3600	4000

Free Lift Triplex (FLT)		FLT 45	FLT 48	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	6	6	6	3	3
β - Mast/fork carriage tilt, backward	°	6	6	6	6	6
h1 - Mast lowered height	mm	2725	2825	2875	3075	3225
h2 - Mast free lift	mm	1500	1600	1672	1800	2000
h3 - Mast lifting height	mm	4500	4800	5000	5500	6000
h4 - Mast extended height	mm	5735	6035	6213	6785	7235
Residual capacity at max height	kg	6400	6300	6300	6100	5500
Residual capacity with hooked-on side shift at max heigth	kg	5900	5800	5800	5600	5000
Height at max capacity	mm	4000	4000	4000	4000	4000
Height at max capacity with hooked-on sideshift	mm	4000	4000	4000	4000	4000

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