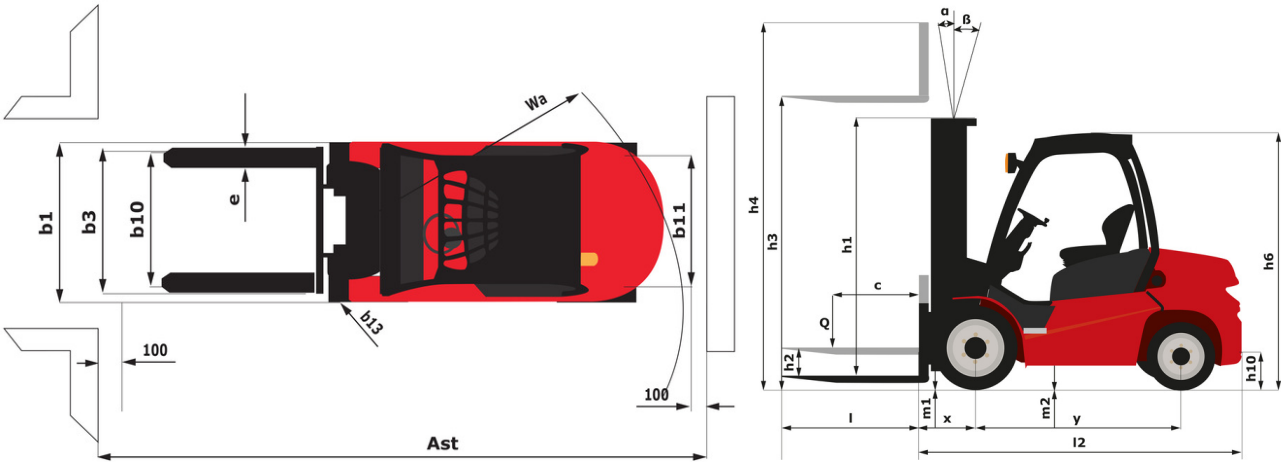
Technical sheet :

MI 55 D ST5

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		MI 55 D ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	5500 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	585 mm
1.9	Wheelbase	y	2150 mm
	Standard mast reference of the machine		FVD 30
	Weight		
2.1	Service weight		7250 kg
2.2	Weight on front axle (laden) / rear axle (laden)		11000 kg / 1750 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3300 kg / 3950 kg
	Wheels		
3.1	Tires type		Solid tires
3.2	Dimensions of front wheels		300-15 18PR
3.3	Dimensions of rear wheels		7.00-12 12PR
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1190 mm
3.7	Rear wheel gauge	b11	1130 mm
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	2390 mm
4.8	Seat height/stand height	h7	1370 mm
4.12	Height of towing bar (coupling height)	h10	445 mm
4.19	Overall length	l1	4530 mm
4.20	Length to face of forks	l2	3330 mm
4.21	Overall width	b1	1490 mm
4.21	Overall width - Single wheels	b1	1490 mm
4.21	Overall width - Twinned wheels	b1	1940 mm
4.22	Forks section / width / length	s / e / l	60 mm x 150 mm x 1220 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		4A
4.24	Fork carriage width	b3	1250 mm
4.31	Ground clearance below mast	m1	170 mm
4.32	Ground clearance at centre of wheelbase	m2	230 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4755 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4555 mm
4.35	Turning radius	Wa	2970 mm
4.36	Internal turning radius (over tyres)	b13	130 mm
	Performances		
5.1	Travel speed (laden / unladen)		13 km/h-22 km/h
5.2	Lifting speed (laden / unladen)		0.43 m/s-0.46 m/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.50 m/s
5.7	Gradeability (laden / unladen)		20 % / 20 %
5.10	Service brake		Hydraulic
	Engine		
7.1	Engine brand / model / norm		Deutz / TCD2.9L4 / Stage V
7.2	Engine power (Hp / kW)		75 Hp/55.40 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2920 cm³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		190 bar
8.3	Oil flow rate for attachments		50 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB

MI 55 D ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12
h1 - Mast lowered height	mm	2495	2645	2745	2845	2995	3245	3560
h2 - Mast free lift	mm	170	170	170	170	170	170	170
h3 - Mast lifting height	mm	3000	3300	3500	3700	4000	4500	5000
h4 - Mast extended height	mm	4080	4380	4580	4780	5080	5580	6080
Residual capacity at max height	kg	5500	5500	5500	5500	5500	5000	4400
Residual capacity with integrated side shift at max heigth	kg	5350	5350	5350	5350	5350	4850	4250
Height at max capacity	mm	3000	3300	3500	3700	4000	4000	4000
Height at max capacity with integrated sideshift	mm	2500	3000	3300	3500	3700	3700	3700

Free Lift Duplex (FLD)		FLD 30	FLD 33	FLD 35	FLD 37
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	2476	2626	2726	2826
h2 - Mast free lift	mm	1362	1512	1612	1712
h3 - Mast lifting height	mm	3000	3300	3500	3700
h4 - Mast extended height	mm	4115	4415	4615	4815
Residual capacity at max height	kg	5500	5500	5500	5500
Residual capacity with integrated side shift at max heigth	kg	5350	5350	5350	5350
Height at max capacity	mm	3000	3300	3500	3700
Height at max capacity with integrated sideshift	mm	2500	3000	3300	3500

Free Lift Triplex (FLT)		FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	3	3
β - Mast/fork carriage tilt, backward	°	12	6	6	6	6	6	6
h1 - Mast lowered height	mm	2305	2405	2470	2535	2635	2805	3020
h2 - Mast free lift	mm	1195	1295	1360	1425	1525	1695	1910
h3 - Mast lifting height	mm	4000	4300	4500	4700	5000	5500	6000
h4 - Mast extended height	mm	5110	5410	5610	5810	6110	6610	7110
Residual capacity at max height	kg	5500	5000	4750	4600	4200	3850	3050
Residual capacity with integrated side shift at max heigth	kg	5350	4850	4600	4450	4050	3700	2900
Height at max capacity	mm	4000	4000	4000	4000	4000	4000	4000
Height at max capacity with integrated sideshift	mm	3500	3500	3500	3500	3500	3500	3500

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