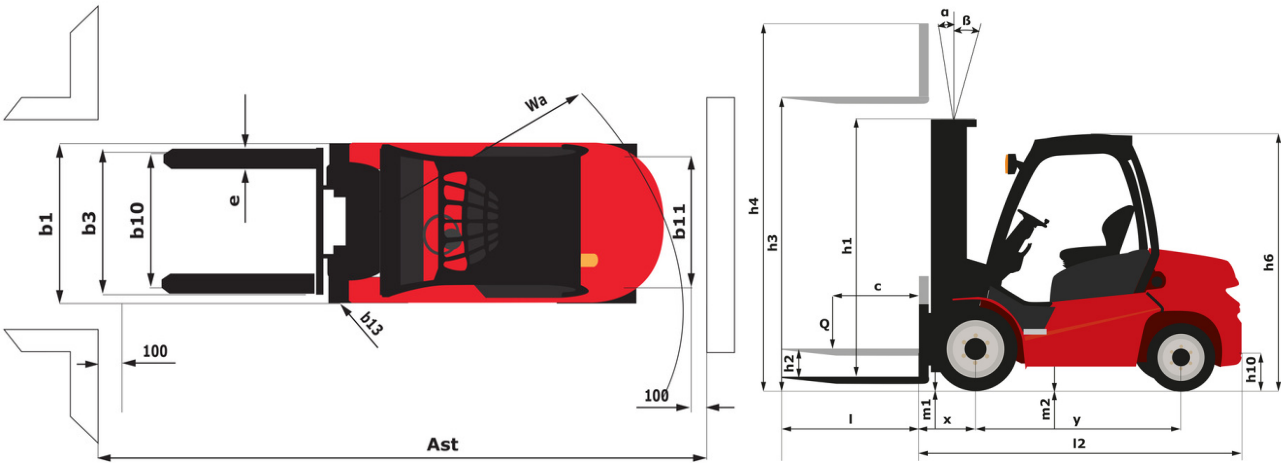
Technical sheet :

MI 35 D ST5

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		MI 35 D ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	3500 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	485 mm
1.9	Wheelbase	y	1700 mm
	Standard mast reference of the machine		FVD 33
	Weight		
2.1	Service weight		4860 kg
2.2	Weight on front axle (laden) / rear axle (laden)		7360 kg / 1000 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1825 kg / 3035 kg
	Wheels		
3.1	Tires type		Solid tires
3.2	Dimensions of front wheels		28-9-15 12
3.3	Dimensions of rear wheels		6.50-10 10
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1005 mm
3.7	Rear wheel gauge	b11	975 mm
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	2130 mm
4.8	Seat height/stand height	h7	1215 mm
4.12	Height of towing bar (coupling height)	h10	360 mm
4.19	Overall length	l1	3935 mm
4.20	Length to face of forks	l2	2785 mm
4.21	Overall width	b1	1225 mm
4.21	Overall width - Single wheels	b1	1225 mm
4.21	Overall width - Twinned wheels	b1	1725 mm
4.22	Forks section / width / length	s / e / l	50 mm x 122 mm x 1150 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	1100 mm
4.31	Ground clearance below mast	m1	130 mm
4.32	Ground clearance at centre of wheelbase	m2	200 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4195 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4395 mm
4.35	Turning radius	Wa	2460 mm
4.36	Internal turning radius (over tyres)	b13	160 mm
	Performances		
5.1	Travel speed (laden / unladen)		18 km/h-18.50 km/h
5.2	Lifting speed (laden / unladen)		0.42 m/s-0.45 m/s
5.3	Lowering speed (laden / unladen)		0.40 m/s-0.35 m/s
5.5	Drawbar pull (Laden / Unladen)		2000 daN / 1520 daN
5.7	Gradeability (laden / unladen)		18 % / 20 %
5.10	Service brake		Hydraulic
	Engine		
7.1	Engine brand / model / norm		Kubota / V2607-CR-E5B / Stage V
7.2	Engine power (Hp / kW)		51 Hp/37.40 kW
7.3	Rated speed		2400 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2615 cm³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		160 bar
8.3	Oil flow rate for attachments		35 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB

MI 35 D ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 33	FVD 37	FVD 40
α - Mast/fork carriage tilt, forward	°	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	mm	2315	2565	2715
h2 - Mast free lift	mm	145	145	145
h3 - Mast lifting height	mm	3300	3700	4000
h4 - Mast extended height	mm	4115	4515	4815
Residual capacity at max height	kg	3500	3500	3500
Residual capacity with integrated side shift at max heigth	kg	3500	3500	3500
Height at max capacity	mm	3300	3700	4000
Height at max capacity with integrated sideshift	mm	3300	3700	4000

Free Lift Duplex (FLD)		FLD 33	FLD 37	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	2330	2530	2680
h2 - Mast free lift	mm	1500	1700	1850
h3 - Mast lifting height	mm	3300	3700	4000
h4 - Mast extended height	mm	4130	4530	4830
Residual capacity at max height	kg	3500	3500	3500
Residual capacity with integrated side shift at max heigth	kg	3500	3500	3500
Height at max capacity	mm	3300	3700	4000
Height at max capacity with integrated sideshift	mm	3300	3700	4000

Free Lift Triplex (FLT)		FLT 43	FLT 45	FLT 47	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	3	3	3
β - Mast/fork carriage tilt, backward	°	6	6	6	6	6	6	6	6
h1 - Mast lowered height	mm	2215	2265	2315	2365	2415	2565	2815	2965
h2 - Mast free lift	mm	1385	1435	1485	1535	1585	1735	1985	2135
h3 - Mast lifting height	mm	4300	4500	4700	4800	5000	5500	6000	6500
h4 - Mast extended height	mm	5130	5380	5530	5630	5830	6330	6880	7330
Residual capacity at max height	kg	3450	3400	3300	3300	3000	2200	1600	1500
Residual capacity with integrated side shift at max heigth	kg	3450	3300	3200	3200	2900	2100	1500	1400
Height at max capacity	mm	4000	4000	4000	4000	4000	4000	4000	4000
Height at max capacity with integrated sideshift	mm	4000	4000	4000	4000	4000	3700	3700	3700

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