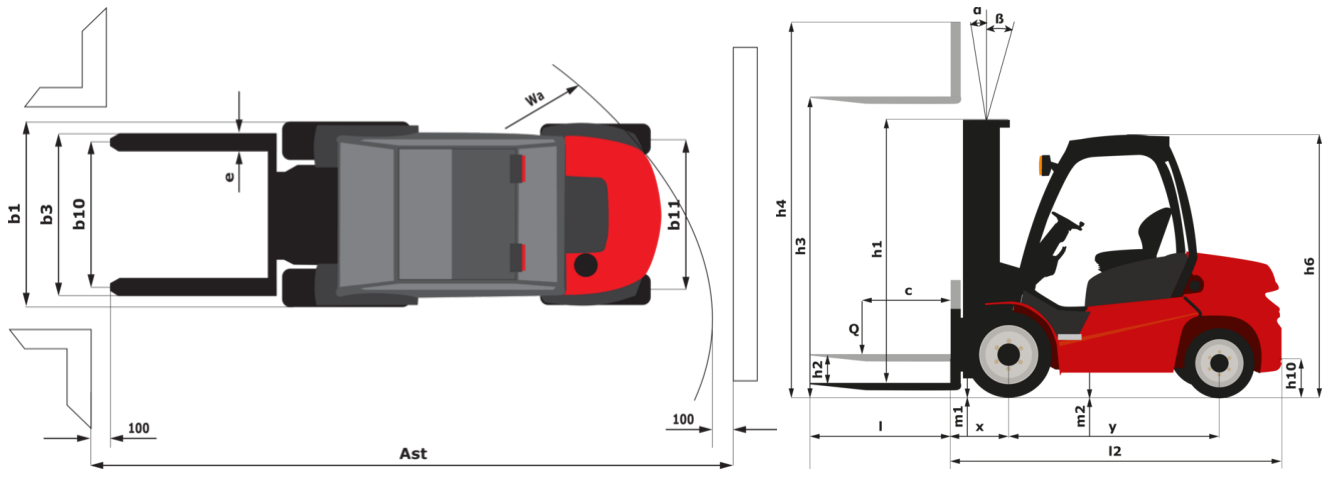
Technical sheet :

MSI 40 ST5

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		MSI 40 ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	4000 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	691 mm
1.9	Wheelbase	y	2075 mm
	Standard mast reference of the machine		FVD 37
	Weight		
2.1	Service weight		6980 kg
2.2	Weight on front axle (laden)		9245 kg
2.3	Weight on front axle (Unladen)		3210 kg
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		315/70 R22,5 KMAX
3.3	Dimensions of rear wheels		225/75 R15 XZM
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1420 mm
3.7	Rear wheel gauge	b11	1142 mm
	Dimensions		
4.8	Seat height/stand height	h7	1435 mm
4.7	Height of overhead guard (cabin)	h6	2440 mm
4.12	Height of towing bar (coupling height)	h10	603 mm
4.19	Overall length	l1	4494 mm
4.20	Length to face of forks	l2	3294 mm
4.21	Overall width	b1	1732 mm
4.22	Forks section / width / length	s / e / l	50 mm x 150 mm x 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	1670 mm
4.31	Ground clearance below mast	m1	185 mm
4.32	Ground clearance at centre of wheelbase	m2	220 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4956 mm
4.35	Turning radius	Wa	2865 mm
	Performances		
5.1	Travel speed (laden / unladen)		20 km/h-20 km/h
5.2	Lifting speed (laden)		0.47 m/s
5.3	Lowering speed (laden)		0.58 m/s
5.5	Drawbar pull (Laden)		3103 daN
5.7	Gradeability (laden)		34 %
5.10	Service brake		Hydraulic
	Transmission type		Hydrostatic
	Engine		
7.1	Engine brand / model / norm		Deutz / TCD 2,9L / Stage V
7.2	Engine power (Hp / kW)		75 Hp/55 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2900 cm³
	Miscellaneous		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments		230 bar
8.3	Oil flow rate for attachments		45 l/min
8.4	Sound level at the driver's ear according to DIN 12 053		81 dB

MSI 40 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	°	10	10	10	10	10	10	10
β - Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12
h1 - Mast lowered height	mm	2425	2575	2675	2775	2925	3175	3425
h3 - Mast lifting height	mm	3000	3300	3500	3700	4000	4500	5000
h4 - Mast extended height	mm	3977	4277	4477	4677	4977	5477	5977
Residual capacity at max height	kg	4000	4000	4000	4000	4000	4000	4000
Residual capacity with hooked-on side shift at max heigth	kg	4000	4000	4000	4000	4000	4000	4000
Height at max capacity	mm	3000	3300	3500	3700	4000	4500	5000
Height at max capacity with hooked-on sideshift	mm	3000	3300	3500	3700	4000	4500	5000

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	10	10	10	10	10	10	10	10
β - Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12	12
h1 - Mast lowered height	mm	2175	2275	2375	2450	2510	2625	2775	2950
h2 - Mast free lift	mm	1258	1358	1458	1533	1593	1708	1858	2033
h3 - Mast lifting height	mm	3700	4000	4300	4500	4700	5000	5500	6000
h4 - Mast extended height	mm	4667	4967	5267	5467	5667	5967	6467	6967
Residual capacity at max height	kg	4000	4000	4000	4000				
Residual capacity with hooked-on side shift at max heigth	kg	4000	4000	4000	4000				
Height at max capacity	mm	3700	4000	4300	4500	2500	2500	2500	2500
Height at max capacity with hooked-on sideshift	mm	3700	4000	4300	4500				

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