

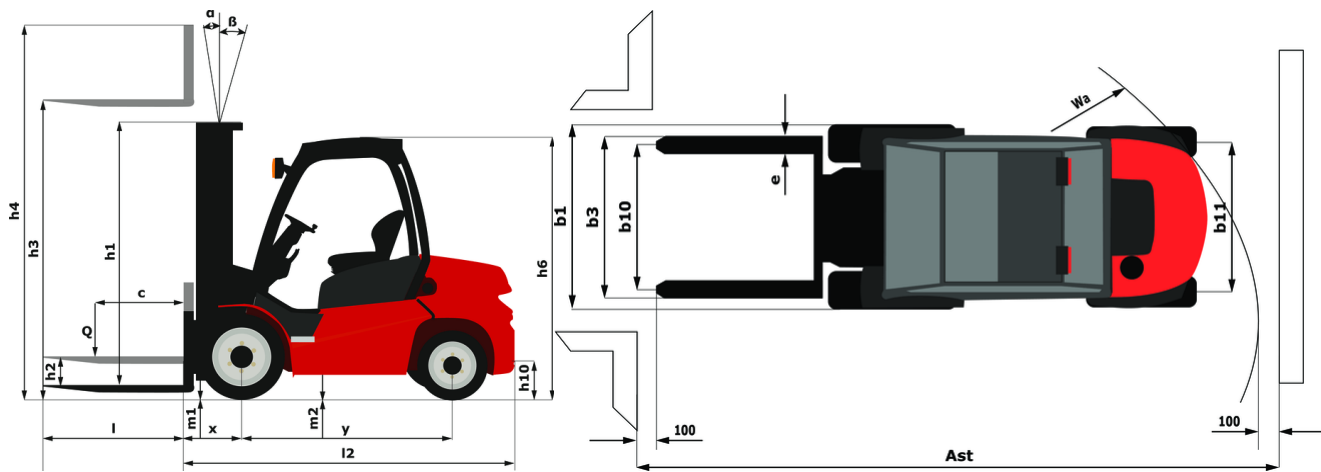
Technical sheet :

MSI 50 ST5



Technical characteristics			Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		MSI 50 ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	5000 kg
1.6	Load centre of gravity	c	600 mm
1.8	Load distance, centre of drive axle to fork	x	701 mm
1.9	Wheelbase	y	2075 mm
Weight			
2.1	Service weight		8420 kg
2.2	Weight on front axle (laden) / rear axle (laden)		11470 kg / 1660 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3490 kg / 4820 kg
Wheels			
3.1	Tyres type		Pneumatic
3.2	Dimensions of front wheels		315/70 R22,5 KMAX S
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			
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	10 / 12
4.1.2	Height of towing bar (coupling height)	h10	605 mm
4.19	Overall length	l1	4584 mm
4.20	Length to face of forks	l2	3384 mm
4.21	Overall width	b1	1732 mm
4.22	Forks section / width / length	s / e / l	60 mm x 150 mm / 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		FEM 4A
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	5241 mm
4.35	Turning radius	Wa	2950 mm
4.7	Height of overhead guard (cabin)	h6	2440 mm
4.8	Seat height/stand height	h7	1435 mm
Performances			
5.1	Travel speed (laden / unladen)		20 km/h / 20 km/h
5.2	Lifting speed (laden / unladen)		0.37 m/s / 0.39 m/s
5.3	Lowering speed (laden / unladen)		0.48 m/s / 0.34 m/s
5.5	Drawbar pull (Laden / Unladen)		3393 daN / 2471 daN
5.7	Gradeability (laden / unladen)		32 % / 29 %
5.10	Service brake		Hydraulic
Engine			
7.1	Engine brand / model		Deutz / TCD 2,9L
7.2	Engine power according to ISO 1585		55 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2900 cm ³
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 50 ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 30	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
h1 - Height mast lowered *	mm	2425	2675	2775	2925	3175	3425
h3 - Lifting Height	mm	3000	3500	3700	4000	4500	5000
h4 - Height mast extended *	mm	3972	4472	4672	4972	5472	5972
α / β - Mast inclination (front / rear)	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	kg	5000	5000	5000	5000	5000	5000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	5000	5000	5000	5000	5000	5000
Height at max capacity	mm	3000	3500	3700	4000	4500	5000
Height at max capacity with hooked-on sideshift	mm	3000	3500	3700	4000	4500	5000

Free Lift Duplex		FLD 30	FLD 33	FLD 35	FLD 37	FLD 40
h2 - Free lift	mm	1532	1682	1782	1882	2032
h1 - Height mast lowered *	mm	2450	2600	2700	2800	2950
h3 - Lifting Height	mm	3000	3300	3500	3700	4000
h4 - Height mast extended *	mm	3969	4269	4469	4669	5969
α / β - Mast inclination (front / rear)	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	kg	5000	5000	5000	5000	5000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	5000	5000	5000	5000	5000
Height at max capacity	mm	3000	3300	3500	3700	4000
Height at max capacity with hooked-on sideshift	mm	3000	3300	3500	3700	4000

Free Lift Triplex		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60	FVD 33
h2 - Free lift	mm	1258	1358	1458	1533	1593	1708	1858	2033	
h1 - Height mast lowered *	mm	2175	2275	2375	2450	2510	2625	2775	2950	2575
h3 - Lifting Height	mm	3700	4000	4300	4500	4700	5000	5500	6000	3300
h4 - Height mast extended *	mm	4672	4972	5272	5472	5672	5972	6472	6972	4272
α / β - Mast inclination (front / rear)	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	kg	5000	5000	5000	5000					5000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	5000	5000	5000	5000					5000
Height at max capacity	mm	3700	4000	4300000	4500					3300
Height at max capacity with hooked-on sideshift	mm	3700	4000	4300	4500					3300



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