

Technical sheet :

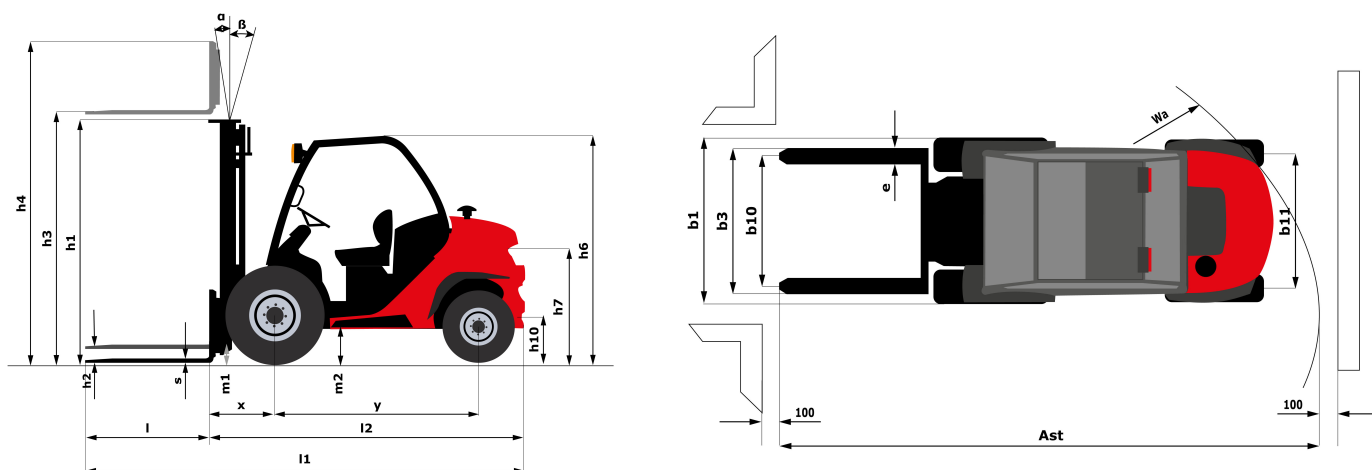
MSI 25 3B - FT4



	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MSI 25 3B / FT4	MSI 25 3B / FT4
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	2500 kg	5512 lbs
1.6	Load centre of gravity	c	500 mm	19.685 in
1.8	Load distance, centre of drive axle to fork	x	625 mm	24.606 in
1.9	Wheelbase	y	180 mm	7.087 in
	Weight			
2.1	Service Weight		4070 kg	8973 lbs
2.2	Weight on front axle (laden) / rear axle (laden)		5695 kg / 875 kg	12555 lbs / 1929 lbs
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1630 kg / 2440 kg	3594 lbs / 5379 lbs
	Wheels			
3.1	Tyres type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		275/70 R22,5	275/70 R22,5
3.3	Dimensions of rear wheels		7.00x12 14PR	7.00x12 14PR
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	1040 mm	40.945 in
3.7	Rear wheel gauge	b11	1102 mm	43.386 in
	Dimensions			
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	10 / 12	10 / 12
4.7	Overall height of standard overhead guard	h6	2105 mm	6906 ft 2 in
4.8	Seat height/stand height	h7	1025 mm	40.354 in
4.12	Height of towing bar (coupling height)	h10	310 mm	12.205 in
4.19	Overall length	l1	4045 mm	159.252 in
4.20	Length to face of forks	l2	2945 mm	115.945 in
4.21	Overall width	b1	1323 mm	52.087 in
4.22	Forks section / width / length	s / e / l	40 mm x 100 mm x 1100 mm	1.575 in x 3.937 in x 43.307 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A	2A
4.24	Fork carriage width	b3	1260 mm	49.606 in
4.31	Ground clearance below mast	m1	270 mm	10.63 in
4.32	Ground clearance at centre of wheelbase	m2	260 mm	853 ft
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	4525 mm	178.15 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4625 mm	182.087 in
4.35	Turning radius	Wa	2545 mm	100.197 in
4.36	Internal turning radius (over tyres)	b13	150 mm	5.906 in
	Performances			
5.1	Travel speed (laden / unladen)		20 km/h / 20 km/h	12.4 mph / 12.4 mph
5.2	Lifting speed (laden / unladen)		0.4 m/s / 0.5 m/s	1.31 ft/s / 1.64 ft/s
5.3	Lowering speed (laden / unladen)		0.5 m/s / 0.4 m/s	1.64 ft/s / 1.31 ft/s
5.5	Drawbar pull (Laden / Unladen)		2280 daN / 1370 daN	2280 daN / 1370 daN
5.7	Gradeability - laden / unladen		31 % / 32 %	31 % / 32 %
5.9	Service brake		Hydraulic	Hydraulic

	Engine			
6.1	Drive motor rating S2 60 min		2 x 48.6 kW	2 x 48.6 kW
7.1	Engine brand / model / norm		Kubota / V2403 CR TE4 / Stage 3B / Tier IV Final	Kubota / V2403 CR TE4 / Stage 3B / Tier IV Final
7.2	Engine power according to ISO 1585		48.6 kW	48.6 kW
7.3	Rated speed		2700 tr/min	2700 tr/min
7.4	Number of cylinders / Capacity of cylinders		4 - 2434 cm³	4 - 148.53 in³
	Miscellaneous			
8.1	Type of drive control		Hydraulic	Hydraulic
8.2	Working hydraulic pressure for attachments (bar)		170 Bar	12 PSI
8.3	Oil flow rate for attachments		77 l/min	77 l/min

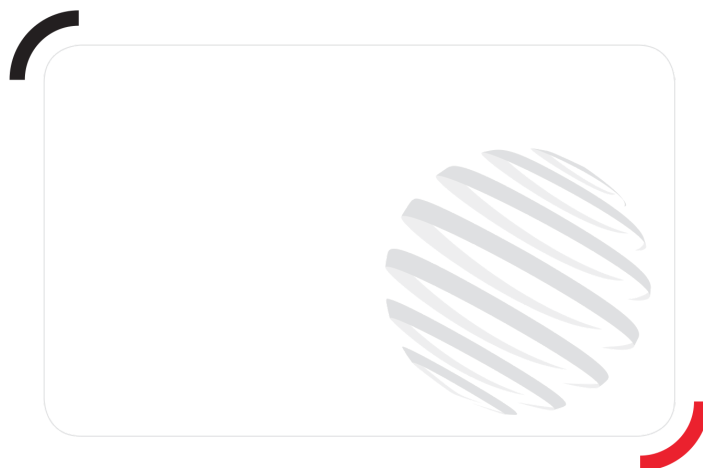
Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 27	FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
h2 - Free lift	mm	130	130	130	130	130	130	130	130
h1 - Height mast Lowered	mm	2000	2150	2300	2400	2560	2750	3000	3250
h3 - Lifting Height	mm	2700	3000	3300	3500	3700	4000	4500	5000
h4 - Height mast extended	mm	3531	3831	4131	4331	4531	4831	5331	5831
α / β - Mast inclination (front / rear)	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
Residual capacity at max height	kg	2500	2500	2500	2500	2500	2500	2200	1900
Height at max capacity with integrated sideshift	mm	0							

Free Lift Triplex		FLT 37	FLT 40	FLT 43	FLT 47	FLT 50	FLT 55	FLT 60	FLT 65	FLT 70
h2 - Free lift	mm	1221	1321	1421	1571	1671	1831	2021	2271	2521
h1 - Height mast Lowered	mm	1950	2050	2150	2300	2400	2560	2750	3000	3250
h3 - Lifting Height	mm	3700	4000	4300	4700	5000	5500	6000	6500	7000
h4 - Height mast extended	mm	4469	4769	5069	5469	5769	6269	6769	7300	7770
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	2500	2500	2400	2100	1900	1500	1500		
Residual capacity without attachment (Industrial load chart)	kg	2500	2500	2400	2100	1900	1500	1500		



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