Technical sheet :

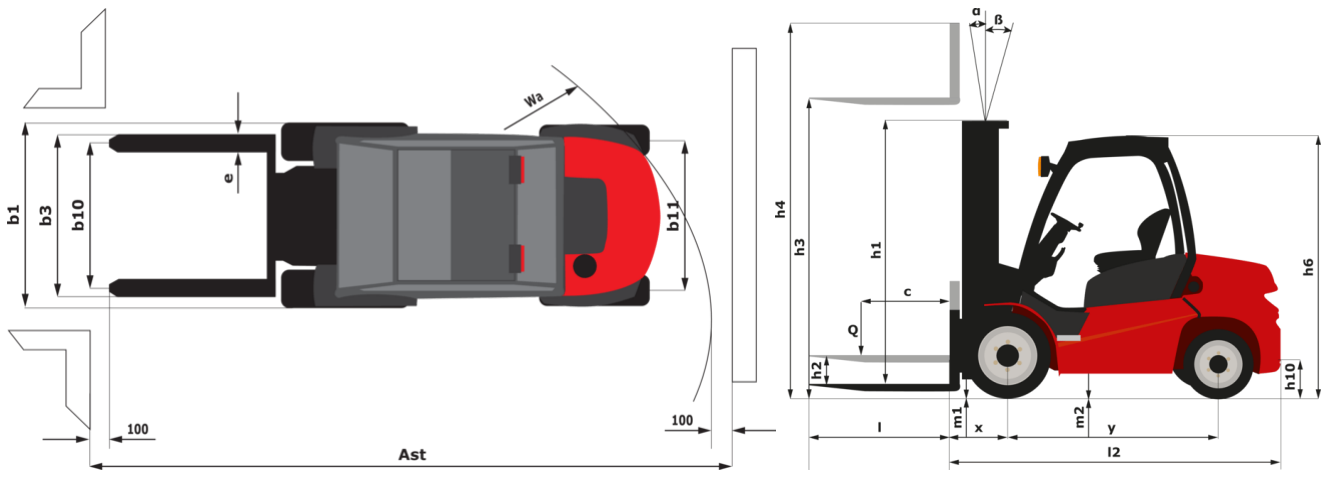
MSI 25 3B - FT4



MANITOU
HANDLING YOUR WORLD

	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		Sitting	Sitting
1.5	Max. capacity	Q	2500 kg	5512 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	625 mm	25 in
1.9	Wheelbase	y	180 mm	7 in
	Weight			
2.1	Service weight		4070 kg	8973 lb
2.2	Weight on front axle (laden) / rear axle (laden)		5695 kg / 875 kg	12555 lb / 1929 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1630 kg / 2440 kg	3594 lb / 5379 lb
	Wheels			
3.1	Tires 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
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	1040 mm	41 in
3.7	Rear wheel gauge	b11	1102 mm	43 in
	Dimensions			
4.8	Seat height/stand height	h7	1025 mm	40 in
4.12	Height of towing bar (coupling height)	h10	310 mm	12 in
4.19	Overall length	l1	4045 mm	159 in
4.20	Length to face of forks	l2	2945 mm	116 in
4.21	Overall width	b1	1323 mm	52 in
4.22	Forks section / width / length	s / e / l	40 mm x 100 mm x 1100 mm	2 in x 4 in x 43 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A	2A
4.24	Fork carriage width	b3	1260 mm	50 in
4.31	Ground clearance below mast	m1	270 mm	11 in
4.32	Ground clearance at centre of wheelbase	m2	260 mm	10 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4525 mm	178 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4625 mm	182 in
4.35	Turning radius	Wa	2545 mm	100 in
4.36	Internal turning radius (over tyres)	b13	150 mm	6 in
	Performances			
5.1	Travel speed (laden / unladen)		20 km/h-20 km/h	12 mph-12 mph
5.2	Lifting speed (laden / unladen)		0.40 m/s-0.50 m/s	1 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.40 m/s	2 ft/s-1 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 %
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
6.1	Drive motor rating S2 60 min		48.60 kW	48.60 kW
7.1	Engine brand / model		Kubota / V2403 CR TE4	Kubota / V2403 CR TE4
7.2	Engine power according to ISO 1585		48.60 kW	48.60 kW
7.3	Rated speed		2700 rpm	2700 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2434 cm³	4 - 149 in³
	Miscellaneous			
8.1	Type of drive control		Hydraulic	Hydraulic
8.2	Working hydraulic pressure for attachments		170 bar	2466 PSI
8.3	Oil flow rate for attachments		45 l/min	12 US gpm

MSI 25 3B - FT4 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 27	FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
Mast/fork carriage tilt, forward	°	10	10	10	10	10	10	10	10
Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12	12
h1 - Mast lowered height	in (mm)	78.7 (2000)	84.6 (2150)	90.6 (2300)	94.5 (2400)	100.8 (2560)	108.3 (2750)	118.1 (3000)	128 (3250)
h2 - Mast free lift	in (mm)	5.1 (130)	5.1 (130)	5.1 (130)	5.1 (130)	5.1 (130)	5.1 (130)	5.1 (130)	5.1 (130)
h3 - Mast lifting height	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	137.8 (3500)	145.7 (3700)	157.5 (4000)	177.2 (4500)	196.9 (5000)
h4 - Mast extended height	in (mm)	139 (3531)	150.8 (3831)	162.6 (4131)	170.5 (4331)	178.4 (4531)	190.2 (4831)	209.9 (5331)	229.6 (5831)
Residual capacity at max height	lb (kg)	5512 (2500)	5512 (2500)	5512 (2500)	5512 (2500)	5512 (2500)	5512 (2500)	4850 (2200)	4189 (1900)
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)
Height at max capacity with integrated sideshift	in (mm)	0							

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 47	FLT 50	FLT 55	FLT 60	FLT 65	TLL 70
Mast/fork carriage tilt, forward	°	10	10	10	10	10	10	10	10	10
Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12	12	12
h1 - Mast lowered height	in (mm)	76.8 (1950)	80.7 (2050)	84.6 (2150)	90.6 (2300)	94.5 (2400)	100.8 (2560)	108.3 (2750)	118.1 (3000)	128 (3250)
h2 - Mast free lift	in (mm)	48.1 (1221)	52 (1321)	55.9 (1421)	61.9 (1571)	65.8 (1671)	72.1 (1831)	79.6 (2021)	89.4 (2271)	99.3 (2521)
h3 - Mast lifting height	in (mm)	145.7 (3700)	157.5 (4000)	169.3 (4300)	185 (4700)	196.9 (5000)	216.5 (5500)	236.2 (6000)	255.9 (6500)	275.6 (7000)
h4 - Mast extended height	in (mm)	175.9 (4469)	187.8 (4769)	199.6 (5069)	215.3 (5469)	227.1 (5769)	246.8 (6269)	266.5 (6769)	287.4 (7300)	305.9 (7770)
Residual capacity at max height	lb (kg)	5512 (2500)	5512 (2500)	5291 (2400)	4630 (2100)	4189 (1900)	3307 (1500)	3307 (1500)		
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)

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