Technical sheet:

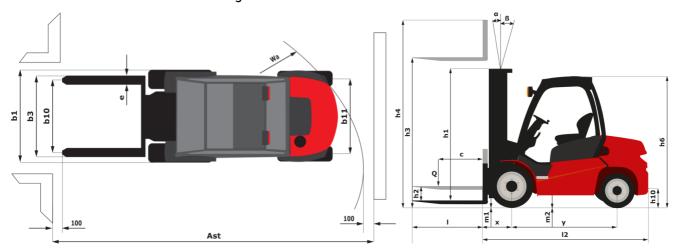
MSI 25 3B - FT4





			011 April 19, 2024 at 12.00.21 AW
	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MSI 25 3B / FT4
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	5512 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	X	25 in
1.9	Wheelbase	y	7 in
112	Weight		,
2.1	Service weight		8973 lb
2.2	Weight on front axle (laden) / rear axle (laden)		12555 lb / 1929 lb
2.3	Weight on front axle (taden) / rear axle (unladen)		3594 lb / 5379 lb
2.3			3354 ID / 3375 ID
2.1	Wheels		Draumatia
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		275/70 R22,5
3.3	Dimensions of rear wheels		7.00x12 14PR
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	41 in
3.7	Rear wheel gauge	b11	43 in
	Dimensions		
4.8	Seat height/stand height	h7	40 in
4.12	Height of towing bar (coupling height)	h10	12 in
4.19	Overall length	l1	159 in
4.20	Length to face of forks	12	116 in
4.21	Overall width	b1	52 in
4.22	Forks section / width / length	s / e / l	2 in x 4 in x 43 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	50 in
4.31	Ground clearance below mast	m1	11 in
4.32	Ground clearance at centre of wheelbase	m2	10 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	178 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	182 in
4.35	Turning radius	Wa	100 in
4.36	Internal turning radius (over tyres)	b13	6 in
	Performances		·
5.1	Travel speed (laden / unladen)		12 mph-12 mph
5.2	Lifting speed (laden / unladen)		1 ft/s-2 ft/s
5.3			
	Lowering speed (laden / unladen)		2 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		2280 daN / 1370 daN
5.7	Gradeability (laden / unladen)		31 % / 32 %
5.10	Service brake		Hydraulic
	Engine		
6.1	Drive motor rating S2 60 min		48.60 kW
7.1	Engine brand / model		Kubota / V2403 CR TE4
7.2	Engine power according to ISO 1585		48.60 kW
7.3	Rated speed		2700 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 149 in³
	Miscellaneous		
8.1	Type of drive control		Hydraulic
8.2	Working hydraulic pressure for attachments		2466 PSI
8.3	Oil flow rate for attachments		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	۰	10	10	10	10	10	10	10	10
Mast/fork carriage tilt, backward	۰	12	12	12	12	12	12	12	12
h1 - Mast lowered height	in	78.7	84.6	90.6	94.5	100.8	108.3	118.1	128
h2 - Mast free lift	in	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
h3 - Mast lifting height	in	106.3	118.1	129.9	137.8	145.7	157.5	177.2	196.9
h4 - Mast extended height	in	139	150.8	162.6	170.5	178.4	190.2	209.9	229.6
Residual capacity at max height	lb	5512	5512	5512	5512	5512	5512	4850	4189
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
Height at max capacity with integrated sideshift	in	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	۰	10	10	10	10	10	10	10	10	10
Mast/fork carriage tilt, backward	٠	12	12	12	12	12	12	12	12	12
h1 - Mast lowered height	in	76.8	80.7	84.6	90.6	94.5	100.8	108.3	118.1	128
h2 - Mast free lift	in	48.1	52	55.9	61.9	65.8	72.1	79.6	89.4	99.3
h3 - Mast lifting height	in	145.7	157.5	169.3	185	196.9	216.5	236.2	255.9	275.6
h4 - Mast extended height	in	175.9	187.8	199.6	215.3	227.1	246.8	266.5	287.4	305.9
Residual capacity at max height	lb	5512	5512	5291	4630	4189	3307	3307		
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4





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