

Technical sheet :

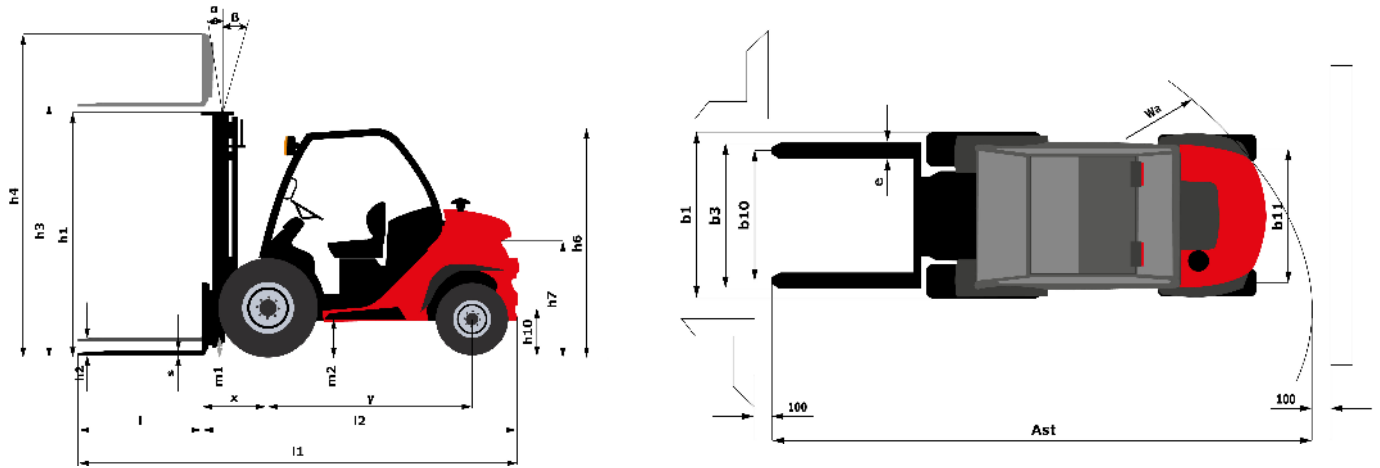
# **MSI 25 3B - FT4**

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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	5511.55 lbs
1.6	Load centre of gravity	c	1 ft 7.68 in
1.8	Load distance, centre of drive axle to fork	x	2 ft 0.60 in
1.9	Wheelbase	y	7.08 in
Weight			
2.1	Service weight		8972.81 lbs
2.2	Weight on front axle (laden) / rear axle (laden)		12555.32 lbs / 1929.04 lbs
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3593.53 lbs / 5379.27 lbs
Wheels			
3.1	Tyres 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	3 ft 4.94 in
3.7	Rear wheel gauge	b11	3 ft 7.38 in
Dimensions			
4.1	Tilt of Mast Forward (deg) / Backward (deg)	$\alpha / \beta$	10 / 12
4.8	Seat height/stand height	h7	3 ft 4.35 in
4.12	Height of towing bar (coupling height)	h10	1 ft 0.20 in
4.19	Overall length	l1	13 ft 3.25 in
4.20	Length to face of forks	l2	9 ft 7.94 in
4.21	Overall width	b1	4 ft 4.08 in
4.22	Forks section / width / length	s / e / l	1.57 in x 3.93 in / 3 ft 7.30 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	4 ft 1.60 in
4.31	Ground clearance below mast	m1	10.62 in
4.32	Ground clearance at centre of wheelbase	m2	853 ft 0.22 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	15 ft 2.08 in
4.36	Internal turning radius (over tyres)	b13	5.90 in
4.35	Turning radius	Wa	8 ft 4.19 in
Performances			
5.1	Travel speed (laden / unladen)		12.42 mph / 12.42 mph
5.2	Lifting speed (laden / unladen)		1.31 ft/s / 1.64 ft/s
5.3	Lowering speed (laden / unladen)		1.64 ft/s / 1.31 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 - 148.53 in <sup>3</sup>
Miscellaneous			
8.1	Type of drive control		Hydraulic
8.2	Working hydraulic pressure for attachments		2465.64 PSI
8.3	Oil flow rate for attachments		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	in	5.11"	5.11"	5.11"	5.11"	5.11"	5.11"	5.11"	5.11"
h1 - Height mast lowered *	in	6' 6.74"	7' 0.64"	7' 6.55"	7' 10.48"	8' 4.78"	9' 0.26"	9' 10.11"	10' 7.95"
h3 - Lifting Height	in	8' 10.29"	9' 10.11"	10' 9.92"	11' 5.79"	12' 1.66"	13' 1.48"	14' 9.16"	16' 4.85"
h4 - Height mast extended *	in	11' 7.01"	12' 6.82"	13' 6.63"	14' 2.51"	14' 10.38"	15' 10.19"	17' 5.88"	19' 1.56"
$\alpha / \beta$ - 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	lbs	5511.56	5511.56	5511.56	5511.56	5511.56	5511.56	4850.17	4188.78
Height at max capacity with integrated sideshift	in	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	in	4' 0.07"	4' 4"	4' 7.94"	5' 1.85"	5' 5.78"	6' 0.08"	6' 7.56"	7' 5.40"	8' 3.25"
h1 - Height mast lowered *	in	6' 4.77"	6' 8.70"	7' 0.64"	7' 6.55"	7' 10.48"	8' 4.78"	9' 0.26"	9' 10.11"	10' 7.95"
h3 - Lifting Height	in	12' 1.66"	13' 1.48"	14' 1.29"	15' 5.03"	16' 4.85"	18' 0.53"	19' 8.22"	21' 3.90"	22' 11.59"
h4 - Height mast extended *	in	14' 7.94"	15' 7.75"	16' 7.56"	17' 11.31"	18' 11.12"	20' 6.81"	22' 2.49"	23' 11.40"	25' 5.90"
$\alpha / \beta$ - 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	lbs	5511.56	5511.56	5291.09	4629.71	4188.78	3306.93	3306.93		
Residual capacity without attachment (Industrial load chart)	lbs	5511.56	5511.56	5291.09	4629.71	4188.78	3306.93	3306.93		



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