

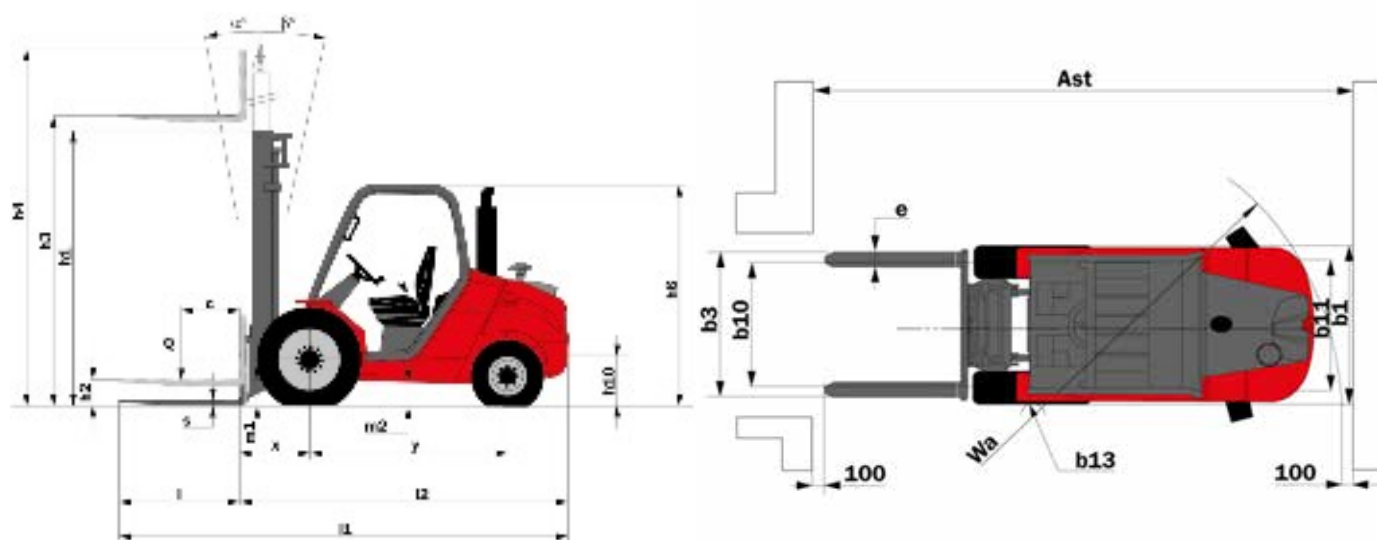
Technical sheet

# MSI 50

Masted Forklift Trucks



Technical characteristics		Metric	Imperial
1.1	Manufacturer	Manitou	Manitou
1.2	Model	MSI 50	MSI 50
1.3	Type of traction	Diesel	Diesel
1.4	Type of operation	Seated	Seated
1.5	Q - Rated capacity	5000 kg	11000 lbs
1.8	x - Distance from the load bearing surface to the centre of the front axle	701 mm	2 ft 4 in
1.9	y - Wheelbase	2075 mm	6 ft 10 in
Weight			
2.1	Weight of truck in working order	8420 kg	18524 lbs
2.2	Laden weight on front/rear axle	11467 kg / 1953 kg	25280 lbs / 4306 lbs
2.3	Unladen weight on front/rear axle	3489 kg / 4931 kg	7692 lbs / 10871 lbs
Wheels			
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	L	L
3.5	Number of front wheels (x)	2x / 2	2x / 2
Dimensions			
4.2	h1 - Height (mast lowered)	2780 mm	9 ft 1 in
4.5	h4 - Height of extended mast	4672 mm	15 ft 4 in
4.19	l1 - Total length	4584 mm	15 ft
4.20	l2 - Length to fork heel	3380 mm	11 ft 1 in
4.21	b1 - Overall width - Single/twin wheels	1730 mm / -	5 ft 8 in / -
4.23	Fork carriage to DIN 15173 A/B	FEM 4A	FEM 4A
4.24	b3 - Width of fork clamp	1670 mm	5 ft 6 in
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	5040 mm	16 ft 6 in
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	5240 mm	17 ft 2 in
4.35	Wa - Turning radius	2950 mm	9 ft 8 in
Performances			
5.1	Speed of travel laden / unladen	22 km/h / 22 km/h	13.60 mph / 13.60 mph
5.5	Nominal pulling force laden / unladen	3350 daN / -	/ -
5.7	Maximum ramp laden / unladen	24 % / 26 %	24 % / 26 %
5.10	Service brake	Hydraulic	Hydraulic
Engine			
7.1	Engine manufacturer / Type	Perkins - 854 F 10794 / Stage 3B	Perkins - 854 F 10794 / Stage 3B
7.2	Useful power	55 kW	55 kW
7.4	Number of pistons / Capacity	4 / 3400 cm <sup>3</sup>	4 / 207.48 in <sup>3</sup>
Miscellaneous			
8.2	Working hydraulic pressure for attachments	230 bar	3336 psi
8.3	Oil flow rate for attachments	103 l/min	27.20 gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator	81 dB(A)	81 dB(A)



### Characteristics of masts and residual capacities

Duplex Total Visibility		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
Lift height	mm	3000	3300	3500	3700	4000	4500	5000
Height (mast lowered)	mm	2425	2575	2675	2775	2925	3175	3425
Height of extended mast	mm	3972	4272	4472	4672	4972	5472	5972

Triplex Free Lift		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
Lift height	mm	3700	4000	4300	4500	4700	5000	5500	6000
Height (mast lowered)	mm	2175	2275	2375	2450	2510	2625	2775	2950
Free lift	mm	1263	1363	1463	1538	1598	1713	1863	2038
Height of extended mast	mm	4662	4962	5262	5462	5662	5962	6462	6962



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