

Technical sheet :

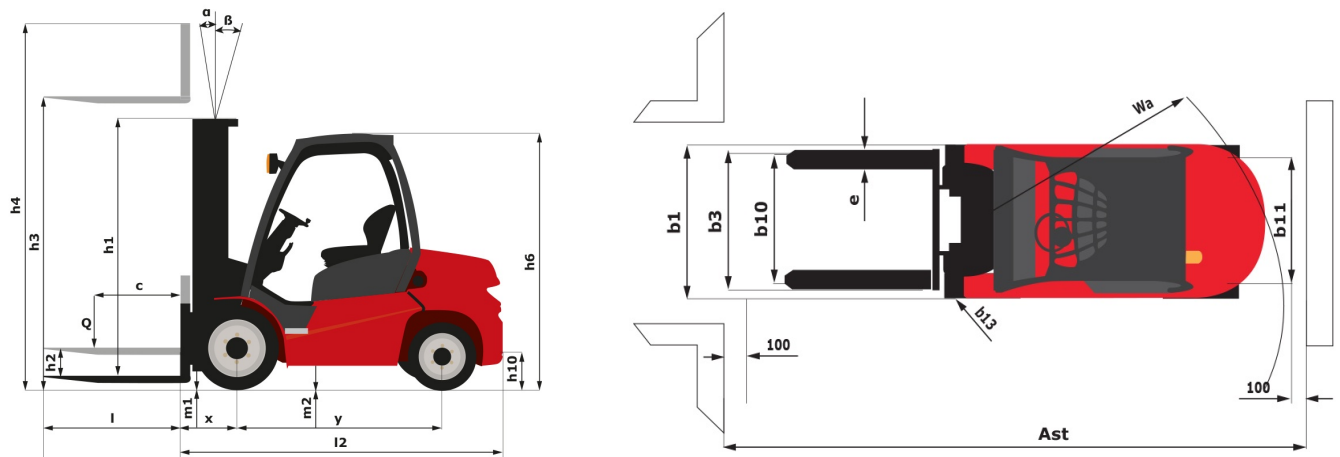
MI 50 D



	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MI 50 D	MI 50 D
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	5000 kg	11023 lbs
1.6	Load centre of gravity	c	500 mm	19.685 in
1.8	Load distance, centre of drive axle to fork	x	560 mm	22.047 in
1.9	Wheelbase	y	2150 mm	84.646 in
	Weight			
2.1	Service Weight		6800 kg	14991 lbs
2.2	Weight on front axle (laden) / rear axle (laden)		10450 kg / 1350 kg	23038 lbs / 2976 lbs
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3000 kg / 3800 kg	6614 lbs / 8378 lbs
	Wheels			
3.1	Tyres type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		300-15-18PR	300-15-18PR
3.3	Dimensions of rear wheels		7.00-12-12PR	7.00-12-12PR
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	1190 mm	46.85 in
3.7	Rear wheel gauge	b11	1130 mm	44.488 in
	Dimensions			
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	6 / 12	6 / 12
4.7	Height of overhead guard (cabin)	h6	2390 mm	94.094 in
4.8	Seat height/stand height	h7	1370 mm	53.937 in
4.12	Height of towing bar (coupling height)	h10	445 m	1460 ft
4.19	Overall length	l1	4475 m	14681 ft 9 in
4.20	Length to face of forks	l2	3255 mm	128.15 in
4.21	Overall width	b1	1490 mm	58.661 in
4.22	Forks section / width / length	s / e / l	50 mm x 150 mm x 1220 mm	1.969 in x 5.906 in x 48.031 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A	3A
4.24	Fork carriage width	b3	1250 mm	49.213 in
4.31	Ground clearance below mast	m1	170 mm	6.693 in
4.32	Ground clearance at centre of wheelbase	m2	230 mm	9.055 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	4791 mm	188.622 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4925 mm	193.898 in
4.35	Turning radius	Wa	2920 mm	114.961 in
4.36	Internal turning radius (over tyres)	b13	130 mm	5.118 in
	Performances			
5.1	Travel speed (laden / unladen)		22 km/h / 24 km/h	13.7 mph / 14.9 mph
5.2	Lifting speed (laden / unladen)		0.4 m/s / 0.43 m/s	1.31 ft/s / 1.41 ft/s
5.3	Lowering speed (laden / unladen)		0.5 m/s / 0.5 m/s	1.64 ft/s / 1.64 ft/s
5.5	Drawbar pull (Laden / Unladen)		4000 daN / 2100 daN	4000 daN / 2100 daN
5.7	Gradeability - laden / unladen		31 % / 34 %	31 % / 34 %
5.9	Service brake		Hydraulic	Hydraulic

	Engine			
7.1	Engine brand / model		Cummins / QSF2.8T4F	Cummins / QSF2.8T4F
7.2	Engine power according to ISO 1585		55 kW	55 kW
7.3	Rated speed		2600 tr/min	2600 tr/min
7.4	Number of cylinders / Capacity of cylinders		4 - 2800 cm ³	4 - 170.87 in ³
	Fuel consumption according to VDI cycle		6.8 l/h	6.8 l/h
	Miscellaneous			
8.2	Working hydraulic pressure for attachments (bar)		160 Bar	11 PSI
8.3	Oil flow rate for attachments		90 l/min	90 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB(A)	< 84 dB(A)

Dimensional drawing

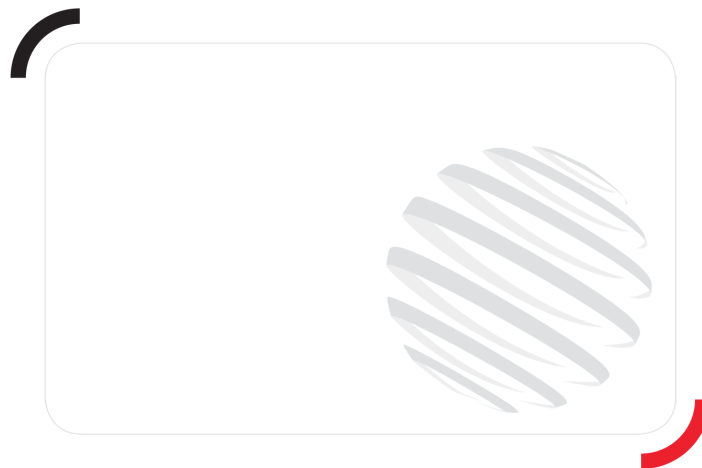


Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
h2 - Free lift	mm	160	160	160	160	160	160	160
h1 - Height mast Lowered	mm	2245	2395	2495	2595	2795	3070	3345
h3 - Lifting Height	mm	3000	3300	3500	3700	4000	4500	5000
h4 - Height mast extended	mm	4365	4665	4865	5065	5365	5865	6365
α / β - Mast inclination (front / rear)	°	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12
Residual capacity without attachment (Industrial load chart)	kg	5000	5000	5000	5000	5000	4700	4100
Residual capacity with integrated side shift (Industrial load chart)	kg	5000	5000	5000	5000	5000	4600	4000
Height at max capacity	mm	3000	3300	3500	3700	4000	4000	4000
Height at max capacity with integrated sideshift	mm	3000	3300	3500	3700	4000	4000	4000

Free Lift Duplex		FLD 30	FLD 33	FLD 35	FLD 37
h2 - Free lift	mm	1364	1514	1614	1714
h1 - Height mast Lowered	mm	2226	2376	2476	2576
h3 - Lifting Height	mm	3000	3300	3500	3700
h4 - Height mast extended	mm	4365	4665	4865	5065
α / β - Mast inclination (front / rear)	°	6 / 12	6 / 12	6 / 12	6 / 12
Residual capacity without attachment (Industrial load chart)	kg	5000	5000	5000	5000
Residual capacity with integrated side shift (Industrial load chart)	kg	5000	5000	5000	5000
Height at max capacity	mm	3000	3300	3500	3700
Height at max capacity with integrated sideshift	mm	3000	3300	3500	3700

Free Lift Triplex		FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
h2 - Free lift	mm	1222	1322	1390	1452	1552	1718	1932
h1 - Height mast Lowered	mm	2080	2180	2248	2310	2410	2575	2790
h3 - Lifting Height	mm	4000	4300	4500	4700	5000	5500	6000
h4 - Height mast extended	mm	5365	5665	5880	6070	6370	6870	7380
α / β - Mast inclination (front / rear)	°	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6
Residual capacity without attachment (Industrial load chart)	kg	4850	4700	4600	4300	3900	3400	2700
Residual capacity with integrated side shift (Industrial load chart)	kg	4750	4600	4500	4200	3800	3300	2600



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