

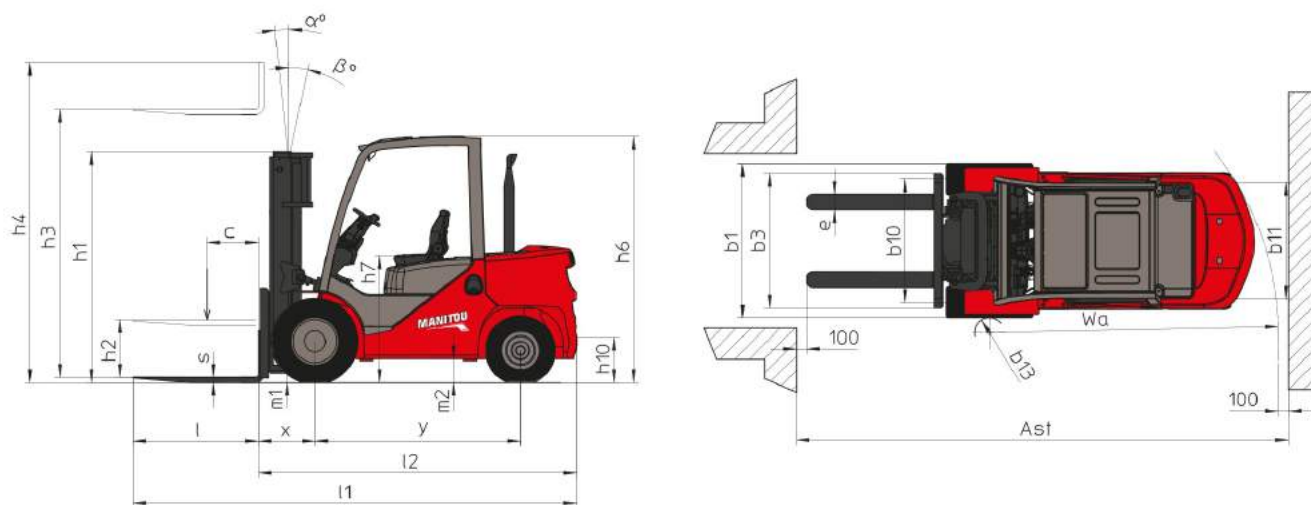
Technical sheet

MI 50 D

Masted Forklift Trucks



	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	MI 50 D
1.3	Type of traction	Diesel
1.4	Type of operation	Seated
1.5	Q - Rated capacity	5000 kg
1.6	c - Center of gravity of load	500 mm
1.8	x - Distance from the load bearing surface to the centre of the front axle	560 mm
1.9	y - Wheelbase	2150 mm
Weight		
2.1	Weight of truck in working order	6800 kg
2.2	Laden weight on front/rear axle	10450 kg / 1350 kg
2.3	Unladen weight on front/rear axle	3000 kg / 3800 kg
Wheels		
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Inflatable
3.2	Size of front wheels	300-15-18PR
3.3	Size of rear wheels	7.00-12-12PR
3.5	Number of front wheels (x)	2x / 2
Dimensions		
4.3	h2 - Free lift	160 mm
4.4	h3 - Lift height (Duplex mast)	3000 mm
4.5	h4 - Height of extended mast	4320 mm
4.7	h6 - Height of driver protection (cab)	2390 mm
4.8	h7 - Height of seat	1370 mm
4.19	l1 - Total length	4480 mm
4.20	l2 - Length to fork heel	3255 mm
4.21	b1 - Overall width - Single/twin wheels	1490 mm / 1940 mm
4.22	e / s / l - Fork dimensions	1220 x 150 x 50
4.23	Fork carriage to DIN 15173 A/B	FEM3A
4.24	b3 - Width of fork clamp	1250 mm
4.31	m1 - Ground clearance under mast	170 mm
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	4790 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	4920 mm
4.35	Wa - Turning radius	2920 mm
Performances		
5.1	Speed of travel laden / unladen	22 km/h / 24 km/h
5.2	Lifting speed laden / unladen	0.40 m/s / 0.43 m/s
5.3	Lowering speed laden / unladen	0.50 m/s / 0.50 m/s
5.5	Nominal pulling force laden / unladen	4000 daN / -
5.7	Maximum ramp laden / unladen	31 % / 34 %
5.10	Service brake	Hydraulic
Engine		
6.4	Battery voltage/capacity	12 V / 105 Ah
7.1	Engine manufacturer / Type	Cummins - QSF2.8T4F / Stage 3B
7.2	Useful power	55 kW
7.4	Number of pistons / Capacity	4 / 2800 cm ³
Miscellaneous		
8.2	Working hydraulic pressure for attachments	160 bar
8.3	Oil flow rate for attachments	90 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator	82 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	2245	2395	2495	2595	2795	3070	3345
Free lift	mm	160	160	160	160	160	160	160
Height of extended mast	mm	4365	4665	4865	5065	5365	5865	6365
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
Forward/backward mast tilt angle	°	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6

Duplex Free Lift		FLD 30	FLD 33	FLD 35	FLD 37
Lift height	mm	3000	3300	3500	3700
Height (mast lowered)	mm	2226	2376	2476	2576
Free lift	mm	1364	1514	1614	1714
Height of extended mast	mm	4365	4665	4865	5065
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
Forward/backward mast tilt angle	°	6 / 12	6 / 12	6 / 12	6 / 12

Triplex Free Lift		FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
Lift height	mm	4000	4300	4500	4700	5000	5500	6000
Height (mast lowered)	mm	2080	2180	2248	2310	2410	2575	2790
Free lift	mm	1222	1322	1390	1452	1552	1718	1932
Height of extended mast	mm	5365	5665	5880	6070	6370	6870	7380
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
Forward/backward mast tilt angle	°	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6



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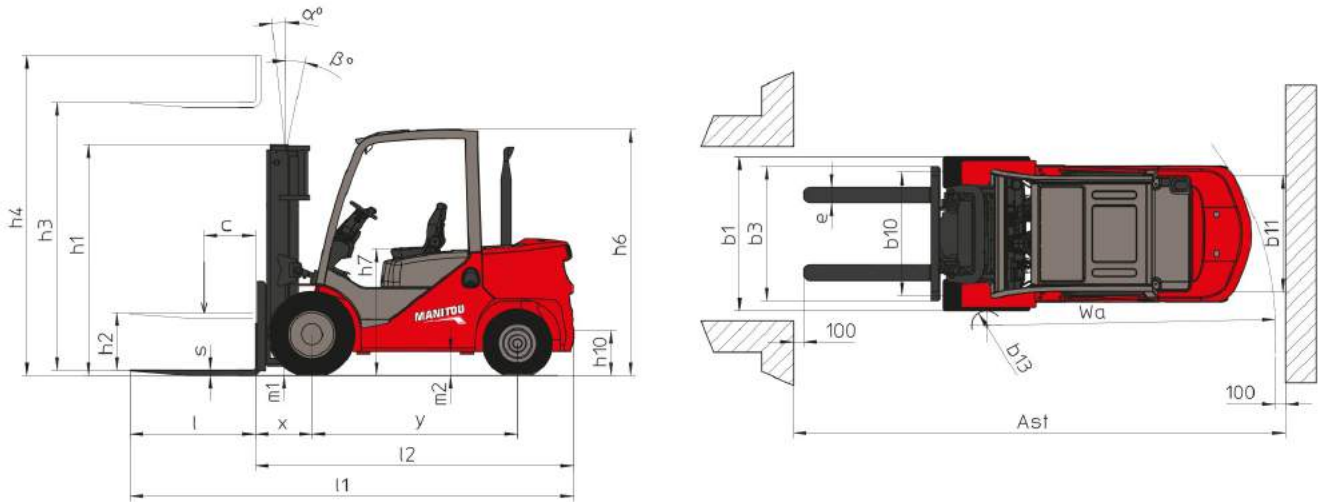
Technical sheet

MI 50 G

Masted Forklift Trucks



	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	MI 50 G
1.3	Type of traction	LPG gas
1.4	Type of operation	Seated
1.5	Q - Rated capacity	5000 kg
1.6	c - Center of gravity of load	500 mm
1.8	x - Distance from the load bearing surface to the centre of the front axle	560 mm
1.9	y - Wheelbase	2150 mm
	Weight	
2.1	Weight of truck in working order	6800 kg
2.2	Laden weight on front/rear axle	10450 kg / 1350 kg
2.3	Unladen weight on front/rear axle	3000 kg / 3800 kg
	Wheels	
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Inflatable
3.2	Size of front wheels	300-15-18PR
3.3	Size of rear wheels	7.00-12-12PR
3.5	Number of front wheels (x)	2x / 2
	Dimensions	
4.3	h2 - Free lift	160 mm
4.5	h4 - Height of extended mast	4320 mm
4.7	h6 - Height of driver protection (cab)	2390 mm
4.8	h7 - Height of seat	1370 mm
4.19	l1 - Total length	4475 mm
4.20	l2 - Length to fork heel	3255 mm
4.21	b1 - Overall width - Single/twinned wheels	1490 mm / 1940 mm
4.22	e / s / l - Fork dimensions	1220 x 150 x 50
4.23	Fork carriage to DIN 15173 A/B	FEM3A
4.24	b3 - Width of fork clamp	1250 mm
4.31	m1 - Ground clearance under mast	170 mm
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	4790 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	4920 mm
4.35	Wa - Turning radius	2920 mm
	Performances	
5.1	Speed of travel laden / unladen	22 km/h / 24 km/h
5.2	Lifting speed laden / unladen	0.40 m/s / 0.43 m/s
5.3	Lowering speed laden / unladen	0.50 m/s / 0.50 m/s
5.5	Nominal pulling force laden / unladen	3800 daN / -
5.7	Maximum ramp laden / unladen	22 % / 32 %
5.10	Service brake	Hydraulic
	Engine	
6.4	Battery voltage/capacity	12 V / 60 Ah
7.1	Engine manufacturer / Type	PSI / -
7.2	Useful power	74 kW
7.4	Number of pistons / Capacity	6 / 4300 cm ³
	Miscellaneous	
8.2	Working hydraulic pressure for attachments	160 bar
8.3	Oil flow rate for attachments	90 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator	83 dB(A)



Characteristics of masts and residual capacities

Duplex Total Visibility		FVD30	FVD33	FVD35	FVD37	FVD40	FVD45	FVD50
Lift height	mm	3000	3300	3500	3700	4000	4500	5000
Height (mast lowered)	mm	2245	2395	2495	2595	2795	3070	3345
Free lift	mm	160	160	160	160	160	160	160
Height of extended mast	mm	4365	4665	4865	5065	5365	5865	6365
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
Forward/backward mast tilt angle	°	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6

Duplex Free Lift		FLD30	FLD33	FLD35	FLD37
Lift height	mm	3000	3300	3500	3700
Height (mast lowered)	mm	2226	2376	2476	2576
Free lift	mm	1364	1514	1614	1714
Height of extended mast	mm	4365	4665	4865	5065
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
Forward/backward mast tilt angle	°	6 / 12	6 / 12	6 / 12	6 / 12

Triplex Free Lift		FLT40	FLT43	FLT45	FLT47	FLT50	FLT55	FLT60
Lift height	mm	4000	4300	4500	4700	5000	5500	6000
Height (mast lowered)	mm	2080	2180	2248	2310	2410	2575	2790
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Residual Capacity with integrated side shift (Industrial load chart)	kg	4750	4600	4500	4200	3800	3300	2600
Forward/backward mast tilt angle	°	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6



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