

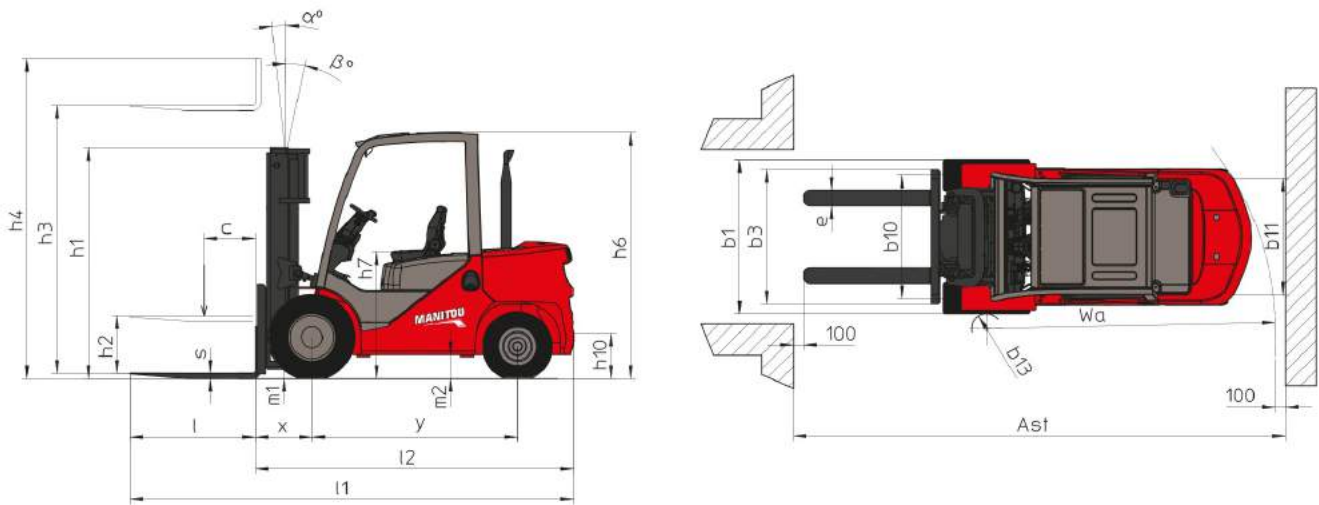
Technical sheet

MI 40 D

Masted Forklift Trucks



Technical characteristics		Metric
1.1	Manufacturer	Manitou
1.2	Model	MI 40 D
1.3	Type of traction	Diesel
1.4	Type of operation	Seated
1.5	Q - Rated capacity	4000 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	550 mm
1.9	y - Wheelbase	2000 mm
Weight		
2.1	Weight of truck in working order	6300 kg
2.2	Laden weight on front/rear axle	9000 kg / 1300 kg
2.3	Unladen weight on front/rear axle	2800 kg / 3500 kg
Wheels		
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Inflatable
3.2	Size of front wheels	8.25-15-14PR
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	4170 mm
4.7	h6 - Height of driver protection (cab)	2390 mm
4.8	h7 - Height of seat	1370 mm
4.12	h10 - Height of towing coupling	450 mm
4.19	l1 - Total length	4290 mm
4.20	l2 - Length to fork heel	3070 mm
4.21	b1 - Overall width - Single/twin wheels	1395 mm / 1940 mm
4.22	e / s / l - Fork dimensions	1220 x 122 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	4640 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	4770 mm
4.35	Wa - Turning radius	2780 mm
Performances		
5.1	Speed of travel laden / unladen	22 km/h / 24 km/h
5.2	Lifting speed laden / unladen	0.46 m/s / 0.48 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 % / 39 %
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	4170	4470	4670	4870	5170	5670	6170
Residual Capacity without attachment (Industrial load chart)	kg	4000	4000	4000	4000	4000	3700	3200
Residual Capacity with integrated side shift (Industrial load chart)	kg	4000	4000	4000	4000	4000	3600	3100
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	4170	4470	4670	4870
Residual Capacity without attachment (Industrial load chart)	kg	4000	4000	4000	4000
Residual Capacity with integrated side shift (Industrial load chart)	kg	4000	4000	4000	4000
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	1229	1329	1395	1459	1559	1724	1939
Height of extended mast	mm	5170	5470	5685	5870	6170	6670	7180
Residual Capacity without attachment (Industrial load chart)	kg	4000	3900	3500	3300	3100	2800	2300
Residual Capacity with integrated side shift (Industrial load chart)	kg	3900	3800	3400	3200	3000	2700	2200
Forward/backward mast tilt angle	°	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6



Siège Social
430 rue de l'Aubinière - 44150 Ancenis Cedex - France
Tel: +33(0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97
www.manitou.com



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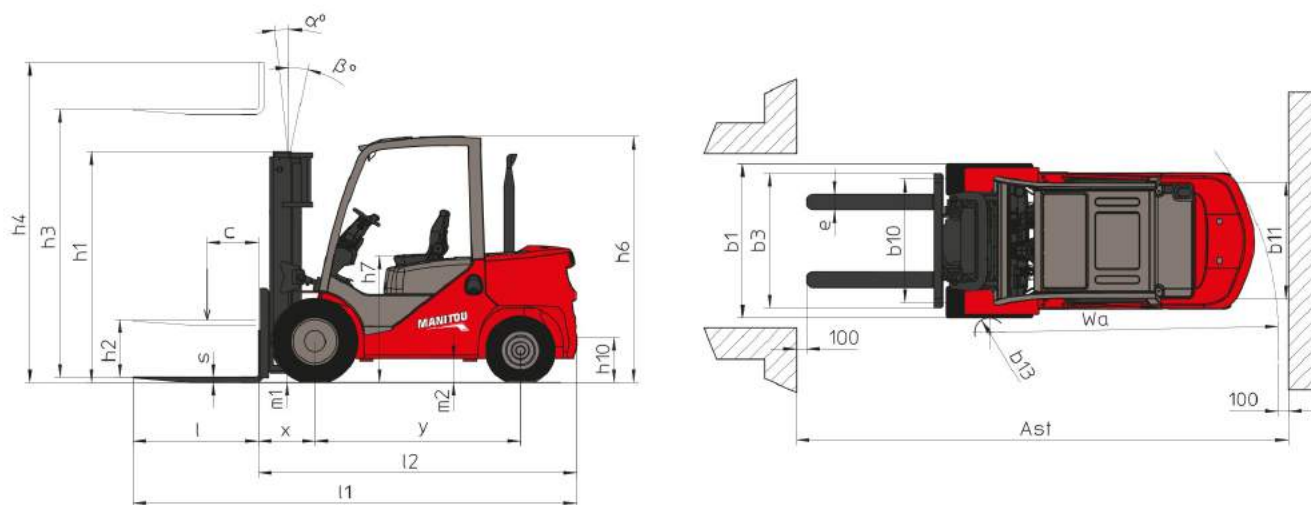
Technical sheet

MI 40 G

Masted Forklift Trucks



	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	MI 40 G
1.3	Type of traction	LPG gas
1.4	Type of operation	Seated
1.5	Q - Rated capacity	4000 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	550 mm
1.9	y - Wheelbase	2000 mm
Weight		
2.1	Weight of truck in working order	6300 kg
2.2	Laden weight on front/rear axle	9000 kg / 1300 kg
2.3	Unladen weight on front/rear axle	2800 kg / 3500 kg
Wheels		
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Solid cushion
3.2	Size of front wheels	8.25-15-14PR
3.3	Size of rear wheels	7.00-12-12PR
3.5	Number of front wheels (x)	2x / 2
3.6	b10 - Front track	1.16 mm
3.7	b11 - Rear track	1.13 mm
Dimensions		
4.3	h2 - Free lift	160 mm
4.4	h3 - Lift height (Duplex mast)	3000 mm
4.5	h4 - Height of extended mast	4170 mm
4.7	h6 - Height of driver protection (cab)	2390 mm
4.8	h7 - Height of seat	1370 mm
4.12	h10 - Height of towing coupling	450 mm
4.19	l1 - Total length	4290 mm
4.20	l2 - Length to fork heel	3070 mm
4.21	b1 - Overall width - Single/twinned wheels	1395 mm / 1940 mm
4.22	e / s / l - Fork dimensions	1220 x 122 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	4640 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	4770 mm
4.35	Wa - Turning radius	2780 mm
Performances		
5.1	Speed of travel laden / unladen	22 km/h / 24 km/h
5.2	Lifting speed laden / unladen	0.46 m/s / 0.48 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	24 % / 37 %
5.10	Service brake	Hydraulic
Engine		
6.4	Battery voltage/capacity	12 V / 60 Ah
7.1	Engine manufacturer / Type	PSI - 4,3 L / -
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		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	4170	4470	4670	4870	5170	5670	6170
Residual Capacity without attachment (Industrial load chart)	kg	4000	4000	4000	4000	4000	3700	3200
Residual Capacity with integrated side shift (Industrial load chart)	kg	4000	4000	4000	4000	4000	3600	3100
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	4170	4470	4670	4870
Residual Capacity without attachment (Industrial load chart)	kg	4000	4000	4000	4000
Residual Capacity with integrated side shift (Industrial load chart)	kg	4000	4000	4000	4000
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
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Residual Capacity without attachment (Industrial load chart)	kg	4000	3900	3500	3300	3100	2800	2300
Residual Capacity with integrated side shift (Industrial load chart)	kg	3900	3800	3400	3200	3000	2700	2200
Forward/backward mast tilt angle	°	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6



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