Technical sheet :

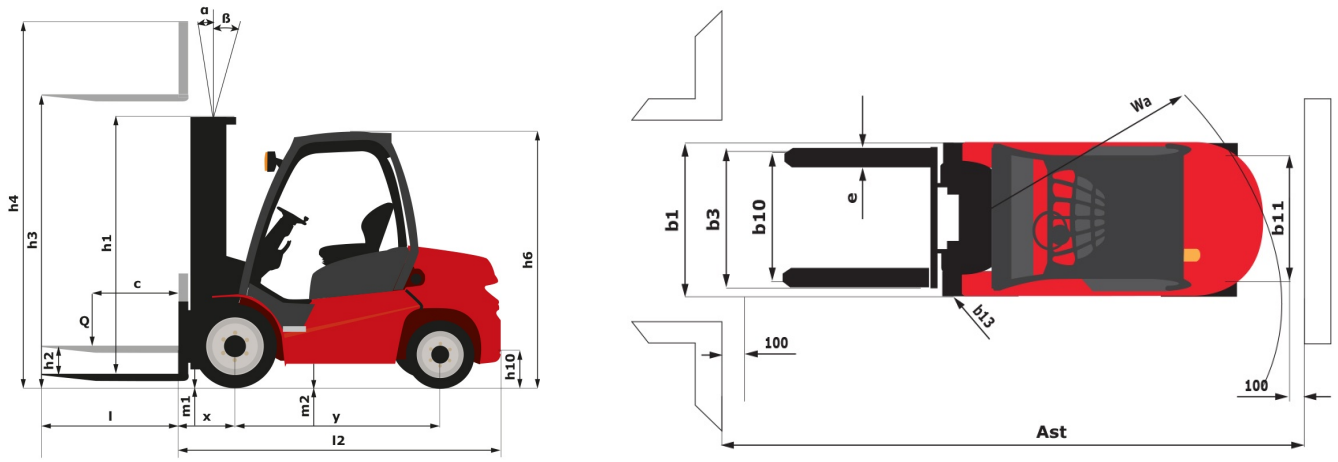
MI 40 D

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MI 40 D	MI 40 D
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	4000 kg	8818 lbs
1.6	Load centre of gravity	c	500 mm	19.685 in
1.8	Load distance, centre of drive axle to fork	x	550 mm	21.654 in
1.9	Wheelbase	y	2000 mm	78.74 in
	Weight			
2.1	Service Weight		6300 kg	13889 lbs
2.2	Weight on front axle (laden) / rear axle (laden)		9000 kg / 1300 kg	19842 lbs / 2866 lbs
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2800 kg / 3500 kg	6173 lbs / 7716 lbs
	Wheels			
3.1	Tyres type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		8.25-15-14PR	8.25-15-14PR
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	1160 mm	45.669 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 mm	17.52 in
4.19	Overall length	l1	4290 mm	168.898 in
4.20	Length to face of forks	l2	3070 mm	120.866 in
4.21	Overall width	b1	1395 mm	54.921 in
4.22	Forks section / width / length	s / e / l	50 mm x 122 mm x 1220 mm	1.969 in x 4.803 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 m	754 ft 7 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	4642 mm	182.756 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4775 mm	187.992 in
4.35	Turning radius	Wa	2780 mm	109.449 in
4.36	Internal turning radius (over tyres)	b13	135 mm	5.315 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)		0.46 m/s / 0.48 m/s	1.51 ft/s / 1.57 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 / 200 daN	4000 daN / 200 daN
5.7	Gradeability - laden / unladen		31 % / 39 %	31 % / 39 %
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 cm³	4 - 170.87 in³
7.5	Fuel consumption according to VDI cycle		6,8	6,8
	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	4170	4470	4670	4870	5170	5670	6170
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	4000	4000	4000	4000	4000	3700	3200
Residual capacity with integrated side shift (Industrial load chart)	kg	4000	4000	4000	4000	4000	3600	3100
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	4170	4470	4670	4870
α / β - Mast inclination (front / rear)	°	6 / 12	6 / 12	6 / 12	6 / 12
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
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	1229	1329	1395	1459	1559	1724	1939
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	5170	5470	5685	5870	6170	6670	7180
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	4000	3900	3500	3300	3100	2800	2300
Residual capacity with integrated side shift (Industrial load chart)	kg	3900	3800	3400	3200	3000	2700	2200

Free Lift Triplex		FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
Height at max capacity	mm	4000		4000	4000	4000		

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