Technical sheet :

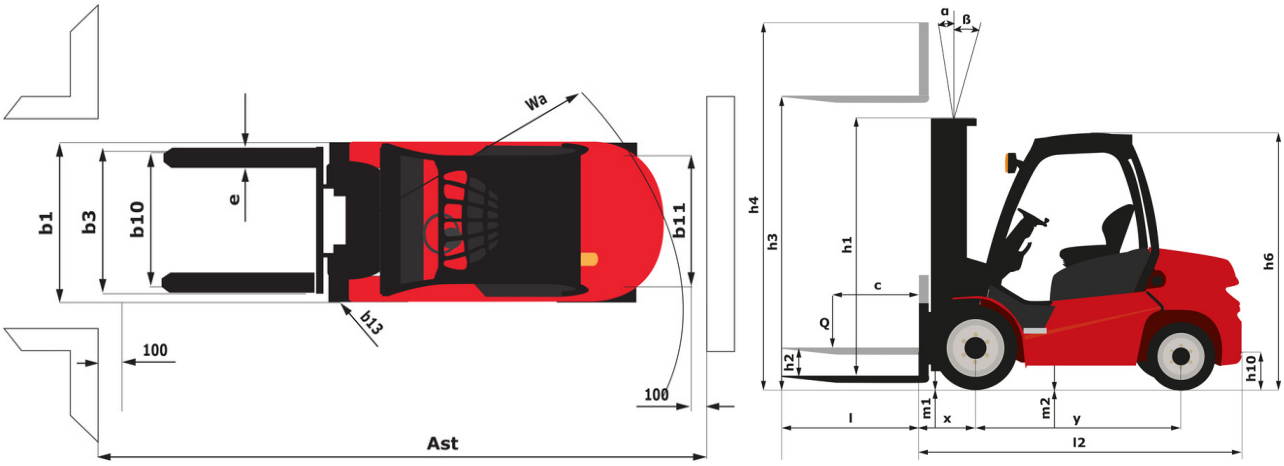
MI 50L D



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MI 50L D	MI 50L D
1.3	Power source		Diesel	Diesel
1.4	Operator type		Sitting	Sitting
1.5	Max. capacity	Q	5000 kg	11023 lb
1.6	Load center of gravity	c	600 mm	24 in
1.8	Load distance, centre of drive axle to fork	x	598 mm	24 in
1.9	Wheelbase	y	2300 mm	91 in
	Weight			
2.1	Service weight		8810 kg	19423 lb
2.2	Weight on front axle (laden) / rear axle (laden)		12250 kg / 1560 kg	27007 lb / 3439 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		4330 kg / 4480 kg	9546 lb / 9877 lb
	Wheels			
3.1	Tires type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		8.25-15-14PR	8.25-15-14PR
3.3	Dimensions of rear wheels		8.25-15-14PR	8.25-15-14PR
3.5	Number of front wheels / rear wheels		4 / 2	4 / 2
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	1489 mm	59 in
3.7	Rear wheel gauge	b11	1700 mm	67 in
	Dimensions			
4.7	Height of overhead guard (cabin)	h6	2430 mm	96 in
4.8	Seat height/stand height	h7	1350 mm	53 in
4.12	Height of towing bar (coupling height)	h10	710 mm	28 in
4.19	Overall length	l1	4719 mm	186 in
4.20	Length to face of forks	l2	3499 mm	138 in
4.21	Overall width	b1	1990 mm	78 in
4.21	Overall width - Twinned wheels	b1	1990 mm	78 in
4.22	Forks section / width / length	s / e / l	60 mm x 150 mm x 1220 mm	2 in x 6 in x 48 in
4.23	Fork carriage ISO 2328 (class/form) A/B		4A	4A
4.24	Fork carriage width	b3	1700 mm	67 in
4.31	Ground clearance below mast	m1	190 mm	7 in
4.32	Ground clearance at centre of wheelbase	m2	270 mm	11 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	5157 mm	203 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	5272 mm	208 in
4.35	Turning radius	Wa	3230 mm	127 in
4.36	Internal turning radius (over tyres)	b13	1222 mm	48 in
	Performances			
5.1	Travel speed (laden / unladen)		18 km/h-24 km/h	11 mph-15 mph
5.2	Lifting speed (laden / unladen)		0.38 m/s-0.46 m/s	1 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		0.48 m/s-0.42 m/s	2 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		6280 daN / 3600 daN	6280 daN / 3600 daN
5.7	Gradeability (laden)		43 %	43 %
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
7.1	Engine brand / model		Deutz / TCD 3.6L 4	Deutz / TCD 3.6L 4
7.2	Engine power according to ISO 1585		55.40 kW	55.40 kW
7.3	Rated speed		2200 rpm	2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 3600 cm³	4 - 220 in³
	Miscellaneous			
8.2	Working hydraulic pressure for attachments		195 bar	2828 PSI
8.3	Oil flow rate for attachments		55 l/min	15 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB	< 84 dB
8.4	Sound level at the driver's ear according to DIN 12 053		84 dB	84 dB

MI 50L D - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 36	FVD 40	FVD 45	FVD 50
Mast/fork carriage tilt, forward	°	6	6	6	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12	12	6	6
h1 - Mast lowered height	in (mm)	98.4 (2500)	104.3 (2650)	110.2 (2800)	118.1 (3000)	129.9 (3300)	139.8 (3550)
h2 - Mast free lift	in (mm)	6.3 (160)	6.3 (160)	6.3 (160)	6.3 (160)	6.3 (160)	6.3 (160)
h3 - Mast lifting height	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	177.2 (4500)	196.9 (5000)
h4 - Mast extended height	in (mm)	157.3 (3995)	169.1 (4295)	180.9 (4595)	196.7 (4995)	216.5 (5500)	236.2 (6000)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)
Residual capacity with hooked-on side shift at max heigth	lb (kg)	9921 (4500)	9921 (4500)	9921 (4500)	9921 (4500)	9921 (4500)	9921 (4500)
Height at max capacity	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	177.2 (4500)	196.9 (5000)
Height at max capacity with hooked-on sideshift	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	177.2 (4500)	196.9 (5000)

Free Lift Duplex (FLD)		FLD 30	FLD 33	FLD 36	FLD 40
Mast/fork carriage tilt, forward	°	6	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12	12
h1 - Mast lowered height	in (mm)	96.5 (2450)	102.4 (2600)	108.3 (2750)	116.1 (2950)
h2 - Mast free lift	in (mm)	58.9 (1495)	64.8 (1645)	70.7 (1795)	78.5 (1995)
h3 - Mast lifting height	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)
h4 - Mast extended height	in (mm)	155.7 (3955)	167.5 (4255)	179.3 (4555)	195.1 (4955)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)
Residual capacity with hooked-on side shift at max heigth	lb (kg)	9921 (4500)	9921 (4500)	9921 (4500)	9921 (4500)
Height at max capacity	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)
Height at max capacity with hooked-on sideshift	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)

Free Lift Triplex (FLT)		FLT 45	FLT 48	FLT 50	FLT 55	FLT 60
Mast/fork carriage tilt, forward	°	6	6	6	3	3
Mast/fork carriage tilt, backward	°	6	6	6	6	6
h1 - Mast lowered height	in (mm)	107.3 (2725)	111.2 (2825)	113.2 (2875)	121.1 (3075)	127 (3225)
h2 - Mast free lift	in (mm)	59.1 (1500)	63 (1600)	65.8 (1672)	70.9 (1800)	78.7 (2000)
h3 - Mast lifting height	in (mm)	177.2 (4500)	189 (4800)	196.9 (5000)	216.5 (5500)	236.2 (6000)
h4 - Mast extended height	in (mm)	225.8 (5735)	237.6 (6035)	244.6 (6213)	267.1 (6785)	284.8 (7235)
Residual capacity at max height	lb (kg)	9921 (4500)	9921 (4500)	9921 (4500)	9259 (4200)	8818 (4000)
Residual capacity with hooked-on side shift at max heigth	lb (kg)	8818 (4000)	8818 (4000)	8818 (4000)	8157 (3700)	7716 (3500)
Height at max capacity	in (mm)	177.2 (4500)	189 (4800)	196.9 (5000)	216.5 (5500)	236.2 (6000)
Height at max capacity with hooked-on sideshift	in (mm)	177.2 (4500)	189 (4800)	196.9 (5000)	216.5 (5500)	236.2 (6000)

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