Technical sheet :

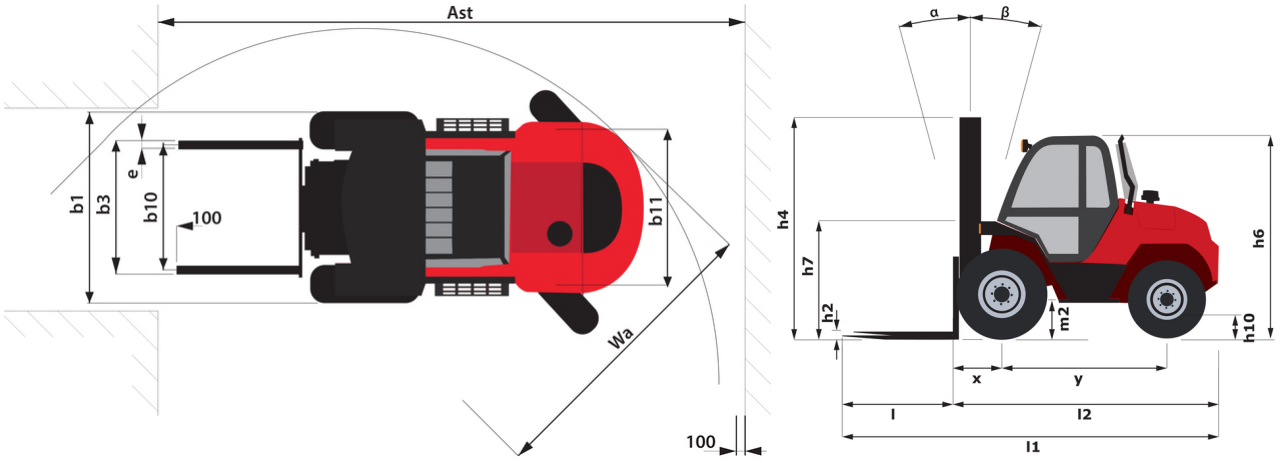
M 50-2



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		M 50-2	M 50-2
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	773 mm	30 in
1.9	Wheelbase	y	2060 mm	81 in
	Weight			
2.1	Service weight		8265 kg	18221 lb
2.2	Weight on front axle (laden) / rear axle (laden)		11615 kg / 1660 kg	25607 lb / 3660 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3285 kg / 4990 kg	7242 lb / 11001 lb
	Wheels			
3.1	Tires type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		18-19,5 18PR A324	18-19,5 18PR A324
3.3	Dimensions of rear wheels		10R17,5 G291 GY	10R17,5 G291 GY
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	1600 mm	63 in
3.7	Rear wheel gauge	b11	1640 mm	65 in
	Dimensions			
4.7	Height of overhead guard (cabin)	h6	2460 mm	97 in
4.8	Seat height/stand height	h7	1440 mm	57 in
4.19	Overall length	l1	4948 mm	195 in
4.20	Length to face of forks	l2	3748 mm	148 in
4.21	Overall width	b1	2057 mm	81 in
4.22	Forks section x width x length	s / e / l	60 mm x 150 mm / 1200 mm	2 in x 6 in / 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		4A	4A
4.24	Fork carriage width	b3	1670 mm	66 in
4.31	Ground clearance below mast	m1	250 mm	10 in
4.32	Ground clearance at centre of wheelbase	m2	310 mm	12 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	5640 mm	222 in
4.35	Turning radius	Wa	3465 mm	136 in
	Performances			
5.1	Travel speed (laden / unladen)		10 km/h / 24 km/h	6 mph / 15 mph
5.2	Lifting speed (laden / unladen)		0.40 m/s / 0.40 m/s	1 ft/s / 1 ft/s
5.3	Lowering speed (laden / unladen)		0.40 m/s / 0.30 m/s	1 ft/s / 0.98 ft/s
5.5	Drawbar pull (Laden)		6900 daN	6900 daN
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
7.2	Engine power according to ISO 1585		55 kW	55 kW
7.1	Engine brand / model		Perkins / 854F-E34T WF	Perkins / 854F-E34T WF
7.2	Engine power according to ISO 1585		55 kW	55 kW
7.3	Rated speed		2200 rpm	2200 rpm
7.4	Number of cylinders		4	4
	Miscellaneous			
8.2	Working hydraulic pressure for attachments		230 bar	3336 PSI
8.3	Oil flow rate for attachments		97 l/min	26 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		76 dB	76 dB

M 50-2 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
Mast/fork carriage tilt, forward	°	15	15	15	15	15	15	15
Mast/fork carriage tilt, backward	°	15	15	15	15	15	15	15
h1 - Mast lowered height	in (mm)	100.8 (2560)	106.7 (2710)	110.6 (2810)	114.6 (2910)	120.5 (3060)	130.1 (3305)	140.2 (3560)
h4 - Mast extended height	in (mm)	162 (4115)	173.8 (4415)	181.7 (4615)	189.6 (4815)	201.4 (5115)	221.1 (5615)	240.7 (6115)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	8818 (4000)
Residual capacity with integrated side shift at max heigth	lb (kg)	10362 (4700)	10362 (4700)	10362 (4700)	10362 (4700)	10362 (4700)	10362 (4700)	7937 (3600)
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
Mast/fork carriage tilt, forward	°	15	15	15	15	15	15	15	15
Mast/fork carriage tilt, backward	°	15	15	15	15	15	15	15	15
h1 - Mast lowered height	in (mm)	90.9 (2310)	94.9 (2410)	98.8 (2510)	101.8 (2585)	104.1 (2645)	108.7 (2760)	114.6 (2910)	121.5 (3085)
h2 - Mast free lift	in (mm)	49.8 (1265)	53.7 (1365)	57.7 (1465)	60.6 (1540)	63 (1600)	67.5 (1715)	73.4 (1865)	80.3 (2040)
h4 - Mast extended height	in (mm)	189.2 (4805)	201 (5105)	212.8 (5405)	220.7 (5605)	228.6 (5806)	240.4 (6105)	260 (6605)	279.7 (7105)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	10362 (4700)	10141 (4600)	9480 (4300)	9811 (4450)	10141 (4600)	9811 (4450)
Residual capacity with integrated side shift at max heigth	lb (kg)	9921 (4500)	9921 (4500)	8818 (4000)	7937 (3600)	7716 (3500)	4409 (2000)	3968 (1800)	1984 (900)
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)

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