

Technical sheet :

M 50-4



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		M 50-4
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	11023 lb
1.6	Load center of gravity	c	24 in
1.8	Load distance, centre of drive axle to fork	x	30 in
1.9	Wheelbase	y	83 in
	Weight		
2.1	Service weight		18353 lb
2.2	Weight on front axle (laden) / rear axle (laden)		25397 lb / 3979 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		7242 lb / 11111 lb
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		18-22,5 MPT06
3.3	Dimensions of rear wheels		340/80 R18 XMCL
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		4
3.6	Front wheel gauge	b10	64 in
3.7	Rear wheel gauge	b11	69 in
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	59 in
4.8	Seat height/stand height	h7	55 in
4.19	Overall length	l1	195 in
4.20	Length to face of forks	l2	148 in
4.21	Overall width	b1	82 in
4.22	Forks section x width x length	s / e / l	2 in x 6 in / 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		4A
4.24	Fork carriage width	b3	66 in
4.31	Ground clearance below mast	m1	12 in
4.32	Ground clearance at centre of wheelbase	m2	15 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	268 in
4.35	Turning radius	Wa	183 in
	Performances		
5.1	Travel speed (laden / unladen)		6 mph / 15 mph
5.2	Lifting speed (laden / unladen)		1 ft/s / 1 ft/s
5.3	Lowering speed (laden / unladen)		1 ft/s / 0.98 ft/s
5.5	Drawbar pull (Laden)		1020 daN
5.10	Service brake		Hydraulic
	Engine		
7.2	Engine power according to ISO 1585		55 kW
7.1	Engine brand / model		Perkins / 854F-E34T WF
7.2	Engine power according to ISO 1585		55 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders		4
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		3336 PSI
8.3	Oil flow rate for attachments		26 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		76 dB

M 50-4 - 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	100.8	106.7	110.6	114.6	120.5	130.1	140.2
h4 - Mast extended height	in	162	173.8	181.7	189.6	201.4	221.1	240.7
Residual capacity at max height	lb	11023	11023	11023	11023	11023	11023	8818
Residual capacity with integrated side shift at max height	lb	10362	10362	10362	10362	10362	10362	7937
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4

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	90.9	94.9	98.8	101.8	104.1	108.7	114.6	121.5
h2 - Mast free lift	in	49.8	53.7	57.7	60.6	63	67.5	73.4	80.3
h4 - Mast extended height	in	189.2	201	212.8	220.7	228.6	240.4	260	279.7
Residual capacity at max height	lb	11023	11023	10362	10141	9480	9811	10141	9811
Residual capacity with integrated side shift at max height	lb	9921	9921	8818	7937	7716	4409	3968	
Residual capacity with hooked-on side shift at max height	lb								1984
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4	157.5
Height at max capacity with hooked-on sideshift	in								157.5



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