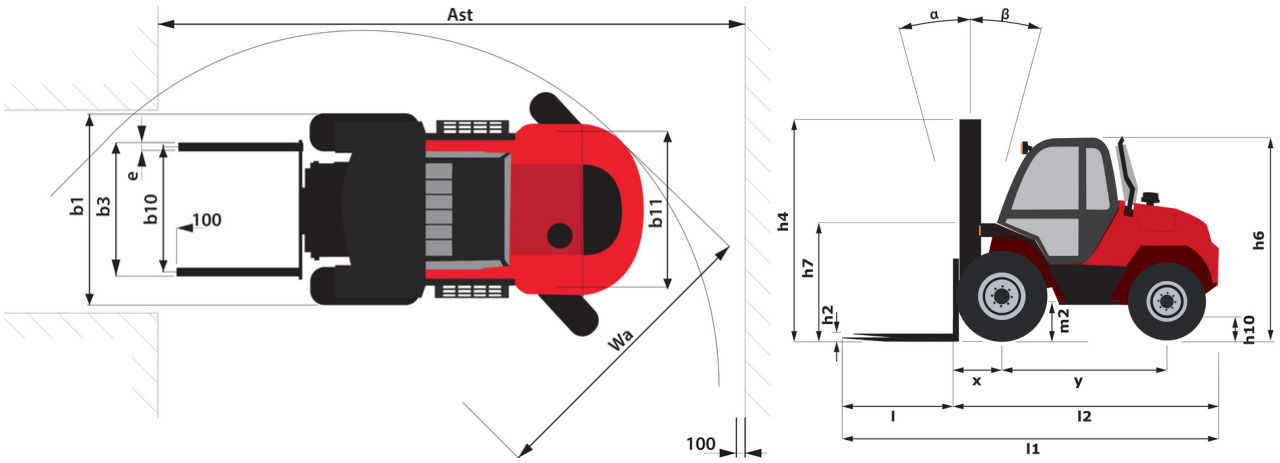
Technical sheet :

M-X 50-4

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		M-X 50-4	M-X 50-4
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
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	762 mm	30 in
1.9	Wheelbase	y	2120 mm	83 in
	Weight			
2.1	Service weight		7660 kg	16887 lb
2.2	Weight on front axle (laden) / rear axle (laden)		10800 kg / 1869 kg	23810 lb / 4120 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2570 kg / 5090 kg	5666 lb / 11222 lb
	Wheels			
3.1	Tires type		Pneumatic	Pneumatic
3.3	Dimensions of rear wheels		340/80R18 XMCL 143A8	340/80R18 XMCL 143A8
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		4	4
3.6	Front wheel gauge	b10	1620 mm	64 in
	Dimensions			
4.7	Height of overhead guard (cabin)	h6	2495 mm	98 in
4.19	Overall length	l1	4945 mm	195 in
4.20	Length to face of forks	l2	3745 mm	147 in
4.21	Overall width	b1	2080 mm	82 in
4.22	Forks section x width x length	s / e / l	50 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	265 mm	10 in
4.32	Ground clearance at centre of wheelbase	m2	375 mm	15 in
4.35	Turning radius	Wa	4155 mm	164 in
	Performances			
5.1	Travel speed (laden / unladen)		24 km/h / 23.40 km/h	15 mph / 15 mph
5.2	Lifting speed (laden / unladen)		0.40 m/s / 0.50 m/s	1 ft/s / 2 ft/s
5.3	Lowering speed (laden / unladen)		0.40 m/s / 0.40 m/s	1 ft/s / 1 ft/s
5.5	Drawbar pull (Laden / Unladen)		10360 daN / 6205 daN	10360 daN / 6205 daN
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
7.1	Engine brand / model		Perkins / 1104D-44T NL38894	Perkins / 1104D-44T NL38894
7.3	Rated speed		2360 rpm	2360 rpm
	Miscellaneous			
8.1	Type of drive control		Hydraulic	Hydraulic

M-X 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 (mm)	99.2 (2520)	105.1 (2670)	109.1 (2770)	113 (2870)	118.9 (3020)	128.7 (3270)	138.6 (3520)
h4 - Mast extended height	in (mm)	160.2 (4070)	172 (4370)	179.9 (4570)	187.8 (4770)	199.6 (5070)	219.3 (5570)	239 (6070)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	9921 (4500)	8818 (4000)
Residual capacity with integrated side shift at max heigth	lb (kg)	10362 (4700)	10362 (4700)	10362 (4700)	10362 (4700)	10362 (4700)	8929 (4050)	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	10	10	10
Mast/fork carriage tilt, backward	°	15	15	15	15	15	15	15	15
h1 - Mast lowered height	in (mm)	89.4 (2270)	93.3 (2370)	97.2 (2470)	100.2 (2545)	102.6 (2605)	107.1 (2720)	113 (2870)	119.9 (3045)
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)	187.8 (4770)	199.6 (5070)	211.4 (5370)	219.3 (5570)	227.2 (5770)	239 (6070)	258.7 (6570)	278.3 (7070)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	9921 (4500)	8818 (4000)	8157 (3700)	7275 (3300)	5291 (2400)	4409 (2000)
Residual capacity with integrated side shift at max heigth	lb (kg)	10362 (4700)	9921 (4500)	8929 (4050)	7937 (3600)	7341 (3330)	6548 (2970)	4762 (2160)	3968 (1800)
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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