

Technical sheet :

# **MI-X 60 D**

---



 **MANITOU**  
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MI-X 60 D
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	13228 lb
1.6	Load center of gravity	c	24 in
1.8	Load distance, centre of drive axle to fork	x	24 in
1.9	Wheelbase	y	91 in
	<b>Weight</b>		
2.1	Service weight		19456 lb
2.2	Weight on front axle (laden) / rear axle (laden)		28660 lb / 4023 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		8730 lb / 10725 lb
	<b>Wheels</b>		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		8.25-15-14PR
3.3	Dimensions of rear wheels		8.25-15-14PR
3.5	Number of front wheels / rear wheels		4 / 2
3.5.2	Number of drive wheels		4
3.6	Front wheel gauge	b10	59 in
3.7	Rear wheel gauge	b11	67 in
	<b>Dimensions</b>		
4.7	Height of overhead guard (cabin)	h6	96 in
4.8	Seat height/stand height	h7	53 in
4.12	Height of towing bar (coupling height)	h10	28 in
4.19	Overall length	l1	186 in
4.20	Length to face of forks	l2	138 in
4.21	Overall width	b1	78 in
4.21	Overall width - Single wheels	b1	78 in
4.22	Forks section / width / length	s / e / l	2 in x 6 in x 48 in
4.23	Fork carriage ISO 2328 (class/form) A/B		4A
4.24	Fork carriage width	b3	67 in
4.31	Ground clearance below mast	m1	7 in
4.32	Ground clearance at centre of wheelbase	m2	11 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	203 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	209 in
4.35	Turning radius	Wa	128 in
4.36	Internal turning radius (over tyres)	b13	48 in
	<b>Performances</b>		
5.1	Travel speed (laden / unladen)		17 mph-18 mph
5.2	Lifting speed (laden / unladen)		2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		6500 daN / 2672 daN
5.7	Gradeability (laden)		43 %
5.10	Service brake		Hydraulic
	<b>Engine</b>		
7.1	Engine brand / model		Cummins / QSB3,3
7.2	Engine power according to ISO 1585		74 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 201 in³
	<b>Miscellaneous</b>		
8.2	Working hydraulic pressure for attachments		2828 PSI
8.3	Oil flow rate for attachments		15 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 88 dB
8.4	Sound level at the driver's ear according to DIN 12 053		88 dB

## MI-X 60 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	98.4	104.3	110.2	118.1	129.9	139.8
h2 - Mast free lift	in	63	6.3	6.3	6.3	6.3	6.3
h3 - Mast lifting height	in	118.1	129.9	141.7	157.5	177.2	196.9
h4 - Mast extended height	in	157.3	169.1	180.9	196.7	216.5	236.2
Residual capacity at max height	lb	13228	13228	13228	13228	13228	13228
Residual capacity with hooked-on side shift at max heigh	lb	12125	12125	12125	12125	12125	12125
Height at max capacity	in	118.1	129.9	141.7	157.5	177.2	196.9
Height at max capacity with hooked-on sideshift	in	118.1	129.9	141.7	157.5	177.2	196.9

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	96.5	102.4	108.3	116.1
h2 - Mast free lift	in	58.9	64.8	70.7	78.5
h3 - Mast lifting height	in	118.1	129.9	141.7	157.5
h4 - Mast extended height	in	155.7	167.5	179.3	195.1
Residual capacity at max height	lb	13228	13228	13228	13228
Residual capacity with hooked-on side shift at max heigh	lb	12125	12125	12125	12125
Height at max capacity	in	118.1	129.9	141.7	157.5
Height at max capacity with hooked-on sideshift	in	118.1	129.9	141.7	157.5

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	107.3	111.2	113.2	121.1	127
h2 - Mast free lift	in	59.1	63	65.8	70.9	78.7
h3 - Mast lifting height	in	177.2	189	196.9	216.5	236.2
h4 - Mast extended height	in	225.8	237.6	244.6	267.1	284.8
Residual capacity at max height	lb	12125	12125	12125	11464	11023
Residual capacity with hooked-on side shift at max heigh	lb	11023	11023	11023	10362	9921
Height at max capacity	in	177.2	189	196.9	216.5	236.2
Height at max capacity with hooked-on sideshift	in	177.2	189	196.9	216.5	236.2



**Head Office**

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

[www.manitou.com](http://www.manitou.com)



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes