

Technical sheet :

MI 70 D



Technical characteristics			Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MI 70 D	MI 70 D
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	7000 kg	15432 lb
1.6	Load center of gravity	c	600 mm	24 in
1.8	Load distance, centre of drive axle to fork	x	603 mm	24 in
1.9	Wheelbase	y	2300 mm	91 in
Weight				
2.1	Service weight		10110 kg	22289 lb
2.2	Weight on front axle (laden) / rear axle (laden)		15290 kg / 1820 kg	33709 lb / 4012 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		4120 kg / 5990 kg	9083 lb / 13206 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	4804 mm	189 in
4.20	Length to face of forks	l2	3584 mm	141 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	65 mm x 150 mm x 1220 mm	3 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	5262 mm	207 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	5377 mm	212 in
4.35	Turning radius	Wa	3330 mm	131 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)		0.36 m/s-0.41 m/s	1 ft/s-1 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)		34 %	34 %
5.10	Service brake		Hydraulic	Hydraulic
Engine				
7.1	Engine brand / model		Deutz / TCD 3.6L 4	Deutz / TCD 3.6L 4
7.2	I.C. Engine power rating		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 70 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
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	6
β - 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)	164.1 (4167)	175.9 (4467)	187.7 (4767)	203.4 (5167)	223.1 (5667)	242.8 (6167)
Residual capacity at max height	lb (kg)	15432 (7000)	15432 (7000)	15432 (7000)	15432 (7000)	15432 (7000)	15432 (7000)
Residual capacity with hooked-on side shift at max height	lb (kg)	14330 (6500)	14330 (6500)	14330 (6500)	14330 (6500)	14330 (6500)	14330 (6500)
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
α - Mast/fork carriage tilt, forward	°	6	6	6	6
β - 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)	52.6 (1335)	58.5 (1485)	64.4 (1635)	72.2 (1835)
h3 - Mast lifting height	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)
h4 - Mast extended height	in (mm)	162 (4115)	173.8 (4415)	185.6 (4715)	201.4 (5115)
Residual capacity at max height	lb (kg)	15432 (7000)	15432 (7000)	15432 (7000)	15432 (7000)
Residual capacity with hooked-on side shift at max height	lb (kg)	14330 (6500)	14330 (6500)	14330 (6500)	14330 (6500)
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
α - Mast/fork carriage tilt, forward	°	6	6	6	3	3
β - 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)	14110 (6400)	13889 (6300)	13889 (6300)	13448 (6100)	12125 (5500)
Residual capacity with hooked-on side shift at max height	lb (kg)	13007 (5900)	12787 (5800)	12787 (5800)	12346 (5600)	11023 (5000)
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)



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



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