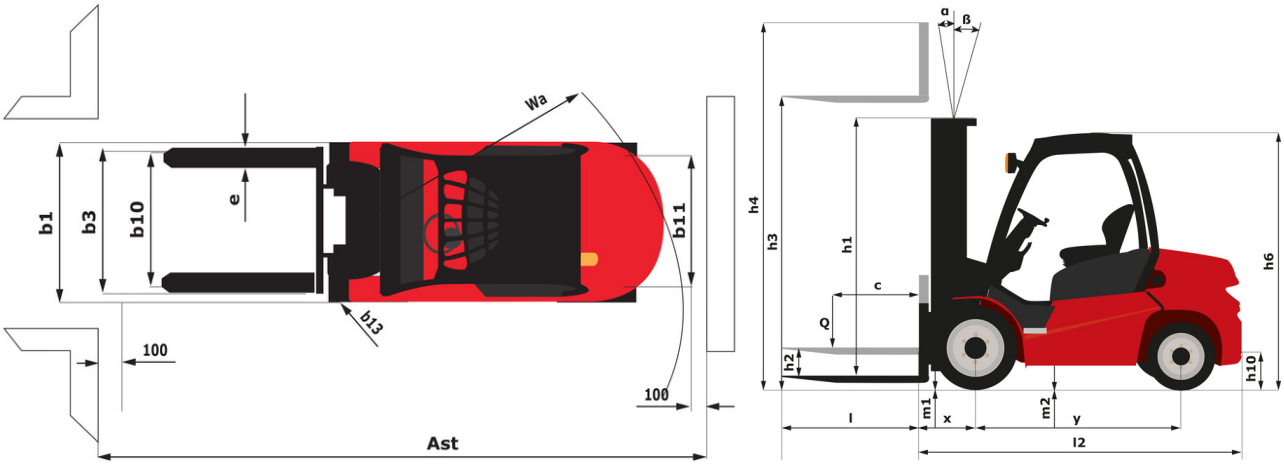
Technical sheet :

MI 70 G

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MI 70 G	MI 70 G
1.3	Power source		Lpg	Lpg
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		9595 kg	21153 lb
2.2	Weight on front axle (laden) / rear axle (laden)		14830 kg / 1765 kg	32695 lb / 3891 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3910 kg / 5685 kg	8620 lb / 12533 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)		27 km/h-31 km/h	17 mph-19 mph
5.2	Lifting speed (laden / unladen)		0.43 m/s-0.46 m/s	1 ft/s-2 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)		5900 daN / 2750 daN	5900 daN / 2750 daN
5.7	Gradeability (laden)		27 %	27 %
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
7.1	Engine brand / model		PSI / 4,3L	PSI / 4,3L
7.2	Engine power according to ISO 1585		74 kW	74 kW
7.3	Rated speed		2300 rpm	2300 rpm
7.4	Number of cylinders / Capacity of cylinders		6 - 4300 cm³	6 - 262 in³
	Miscellaneous			
8.2	Working hydraulic pressure for attachments		195 bar	2828 PSI
8.3	Oil flow rate for attachments		120 l/min	32 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 88 dB	< 88 dB
8.4	Sound level at the driver's ear according to DIN 12 053		88 dB	88 dB

MI 70 G - 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 (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 heigth	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
Mast/fork carriage tilt, forward	°	6	6	6	6
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 heigth	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
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 (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 heigth	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)

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