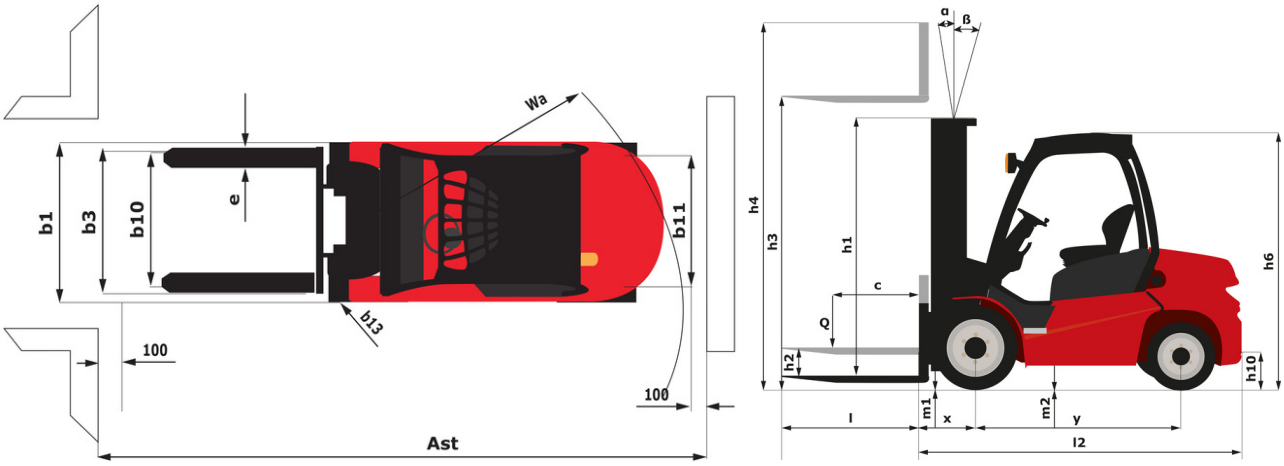
Technical sheet :

MI 18 G ST5

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		MANITOU	MANITOU
1.2	Model Name		MI 18 G ST5	MI 18 G ST5
1.3	Power source		Lpg	Lpg
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	1800 kg	3968 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	405 mm	16 in
1.9	Wheelbase	y	1420 mm	56 in
	Weight			
2.1	Service weight		2905 kg	6404 lb
2.2	Weight on front axle (laden) / rear axle (laden)		4160 kg / 454 kg	9171 lb / 1001 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1215 kg / 1690 kg	2679 lb / 3726 lb
	Wheels			
3.1	Tires type		Super Elastic	Super Elastic
3.2	Dimensions of front wheels		6.50-10 10	6.50-10 10
3.3	Dimensions of rear wheels		5.00-8 8	5.00-8 8
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	900 mm	35 in
3.7	Rear wheel gauge	b11	920 mm	36 in
	Dimensions			
4.7	Height of overhead guard (cabin)	h6	2090 mm	82 in
4.8	Seat height/stand height	h7	1160 mm	46 in
4.12	Height of towing bar (coupling height)	h10	315 mm	12 in
4.19	Overall length	l1	3350 mm	132 in
4.20	Length to face of forks	l2	2280 mm	90 in
4.21	Overall width	b1	1080 mm	43 in
4.21	Overall width - Single wheels	b1	1080 mm	43 in
4.21	Overall width - Twinned wheels	b1	1500 mm	59 in
4.22	Forks section / width / length	s / e / l	35 mm x 100 mm x 1070 mm	1 in x 4 in x 42 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A	2A
4.24	Fork carriage width	b3	1000 mm	39 in
4.31	Ground clearance below mast	m1	115 mm	5 in
4.32	Ground clearance at centre of wheelbase	m2	150 mm	6 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3615 mm	142 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3815 mm	150 in
4.35	Turning radius	Wa	2010 mm	79 in
4.36	Internal turning radius (over tyres)	b13	55 mm	2 in
	Performances			
5.1	Travel speed (laden / unladen)		17.50 km/h-18 km/h	11 mph-11 mph
5.2	Lifting speed (laden / unladen)		0.61 m/s-0.65 m/s	2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.55 m/s	2 ft/s-2 ft/s
5.5	Drawbar pull (Laden / Unladen)		1800 daN / 800 daN	1800 daN / 800 daN
5.7	Gradeability (laden / unladen)		20 % / 20 %	20 % / 20 %
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
7.1	Engine brand / model		GCT (ex-Nissan) / GK21 LPG	GCT (ex-Nissan) / GK21 LPG
7.2	Engine power according to ISO 1585		38.40 kW	38.40 kW
7.3	Rated speed		2700 rpm	2700 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2065 cm³	4 - 126 in³
	Miscellaneous			
8.2	Working hydraulic pressure for attachments		160 bar	2321 PSI
8.3	Oil flow rate for attachments		25 l/min	7 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 81 dB	< 81 dB

MI 18 G ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 33	FVD 37	FVD 40
Mast/fork carriage tilt, forward	°	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	in (mm)	84.4 (2145)	94.3 (2395)	102.2 (2595)
h2 - Mast free lift	in (mm)	6.1 (155)	6.1 (155)	6.1 (155)
h3 - Mast lifting height	in (mm)	129.9 (3300)	145.7 (3700)	157.5 (4000)
h4 - Mast extended height	in (mm)	152.2 (3865)	167.9 (4265)	181.1 (4600)
Residual capacity at max height	lb (kg)	3968 (1800)	3968 (1800)	3968 (1800)
Residual capacity with integrated side shift at max heigth	lb (kg)	3858 (1750)	3858 (1750)	3858 (1750)
Height at max capacity	in (mm)	129.9 (3300)	145.7 (3700)	98.4 (2500)

Free Lift Duplex (FLD)		FLD 33	FLD 37	FLD 40
Mast/fork carriage tilt, forward	°	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	in (mm)	85 (2160)	92.9 (2360)	100.8 (2560)
h2 - Mast free lift	in (mm)	62 (1575)	69.9 (1775)	77.8 (1975)
h3 - Mast lifting height	in (mm)	129.9 (3300)	145.7 (3700)	157.5 (4000)
h4 - Mast extended height	in (mm)	153 (3885)	168.7 (4285)	180.5 (4585)
Residual capacity at max height	lb (kg)	3968 (1800)	3968 (1800)	3748 (1700)
Residual capacity with integrated side shift at max heigth	lb (kg)	3858 (1750)	3858 (1750)	3638 (1650)
Height at max capacity	in (mm)	129.9 (3300)	145.7 (3700)	98.4 (2500)

Free Lift Triplex (FLT)		FLT 43	FLT 45	FLT 47	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
Mast/fork carriage tilt, forward	°	6	6	6	6	6	3	3	3
Mast/fork carriage tilt, backward	°	6	6	6	6	6	6	6	6
h1 - Mast lowered height	in (mm)	81.5 (2070)	83.5 (2120)	85.4 (2170)	87.4 (2220)	89.4 (2270)	97.2 (2470)	107.1 (2720)	113 (2870)
h2 - Mast free lift	in (mm)	55.1 (1400)	59.1 (1500)	62.4 (1585)	63 (1600)	66.3 (1685)	74.2 (1885)	82.7 (2100)	86.6 (2200)
h3 - Mast lifting height	in (mm)	169.3 (4300)	177.2 (4500)	185 (4700)	189 (4800)	196.9 (5000)	216.5 (5500)	236.2 (6000)	255.9 (6500)
h4 - Mast extended height	in (mm)	196.1 (4980)	202 (5130)	211.8 (5380)	213.8 (5430)	220.3 (5595)	240 (6095)	265 (6730)	282.7 (7180)
Residual capacity at max height	lb (kg)	3748 (1700)	3748 (1700)	3638 (1650)	3638 (1650)	2976 (1350)	2315 (1050)	1653 (750)	
Residual capacity with integrated side shift at max heigth	lb (kg)	3527 (1600)	3527 (1600)	3417 (1550)	3417 (1550)	2756 (1250)	2094 (950)	1433 (650)	
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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