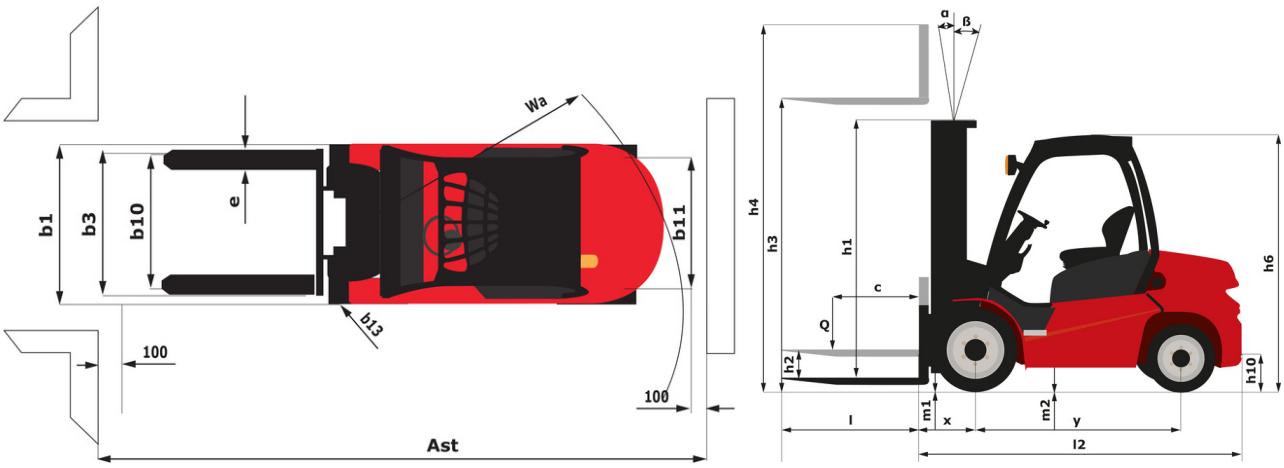
Technical sheet :

MI 18 G ST5

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		MI 18 G ST5
1.3	Power source		Lpg
1.4	Operator type		Seated
1.5	Max. capacity	Q	1800 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	405 mm
1.9	Wheelbase	y	1420 mm
	Weight		
2.1	Service weight		2905 kg
2.2	Weight on front axle (laden) / rear axle (laden)		4160 kg / 454 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1215 kg / 1690 kg
	Wheels		
3.1	Tires type		Solid tires
3.2	Dimensions of front wheels		6.50-10 10
3.3	Dimensions of rear wheels		5.00-8 8
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	900 mm
3.7	Rear wheel gauge	b11	920 mm
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	2090 mm
4.8	Seat height/stand height	h7	1160 mm
4.12	Height of towing bar (coupling height)	h10	315 mm
4.19	Overall length	l1	3350 mm
4.20	Length to face of forks	l2	2280 mm
4.21	Overall width	b1	1080 mm
4.21	Overall width - Single wheels	b1	1080 mm
4.21	Overall width - Twinned wheels	b1	1500 mm
4.22	Forks section / width / length	s / e / l	35 mm x 100 mm x 1070 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	1000 mm
4.31	Ground clearance below mast	m1	115 mm
4.32	Ground clearance at centre of wheelbase	m2	150 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3615 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3815 mm
4.35	Turning radius	Wa	2010 mm
4.36	Internal turning radius (over tyres)	b13	55 mm
	Performances		
5.1	Travel speed (laden / unladen)		17.50 km/h-18 km/h
5.2	Lifting speed (laden / unladen)		0.61 m/s-0.65 m/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.55 m/s
5.5	Drawbar pull (Laden / Unladen)		1800 daN / 800 daN
5.7	Gradeability (laden / unladen)		20 % / 20 %
5.10	Service brake		Hydraulic
	Engine		
7.1	Engine brand / model		GCT (ex-Nissan) / GK21 LPG
7.2	Engine power (Hp / kW)		52 Hp/38.40 kW
7.3	Rated speed		2700 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2065 cm³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		160 bar
8.3	Oil flow rate for attachments		25 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 81 dB

MI 18 G ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 33	FVD 37	FVD 40
α - Mast/fork carriage tilt, forward	°	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	mm	2145	2395	2595
h2 - Mast free lift	mm	155	155	155
h3 - Mast lifting height	mm	3300	3700	4000
h4 - Mast extended height	mm	3865	4265	4600
Residual capacity at max height	kg	1800	1800	1800
Residual capacity with integrated side shift at max heigth	kg	1750	1750	1750
Height at max capacity	mm	3300	3700	2500

Free Lift Duplex (FLD)		FLD 33	FLD 37	FLD 40
α - Mast/fork carriage tilt, forward	°	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	mm	2160	2360	2560
h2 - Mast free lift	mm	1575	1775	1975
h3 - Mast lifting height	mm	3300	3700	4000
h4 - Mast extended height	mm	3885	4285	4585
Residual capacity at max height	kg	1800	1800	1700
Residual capacity with integrated side shift at max heigth	kg	1750	1750	1650
Height at max capacity	mm	3300	3700	2500

Free Lift Triplex (FLT)		FLT 43	FLT 45	FLT 47	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	3	3	3
β - Mast/fork carriage tilt, backward	°	6	6	6	6	6	6	6	6
h1 - Mast lowered height	mm	2070	2120	2170	2220	2270	2470	2720	2870
h2 - Mast free lift	mm	1400	1500	1585	1600	1685	1885	2100	2200
h3 - Mast lifting height	mm	4300	4500	4700	4800	5000	5500	6000	6500
h4 - Mast extended height	mm	4980	5130	5380	5430	5595	6095	6730	7180
Residual capacity at max height	kg	1700	1700	1650	1650	1350	1050	750	
Residual capacity with integrated side shift at max heigth	kg	1600	1600	1550	1550	1250	950	650	
Height at max capacity	mm	2500	2500	2500	2500	2500	2500	2500	2500

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