

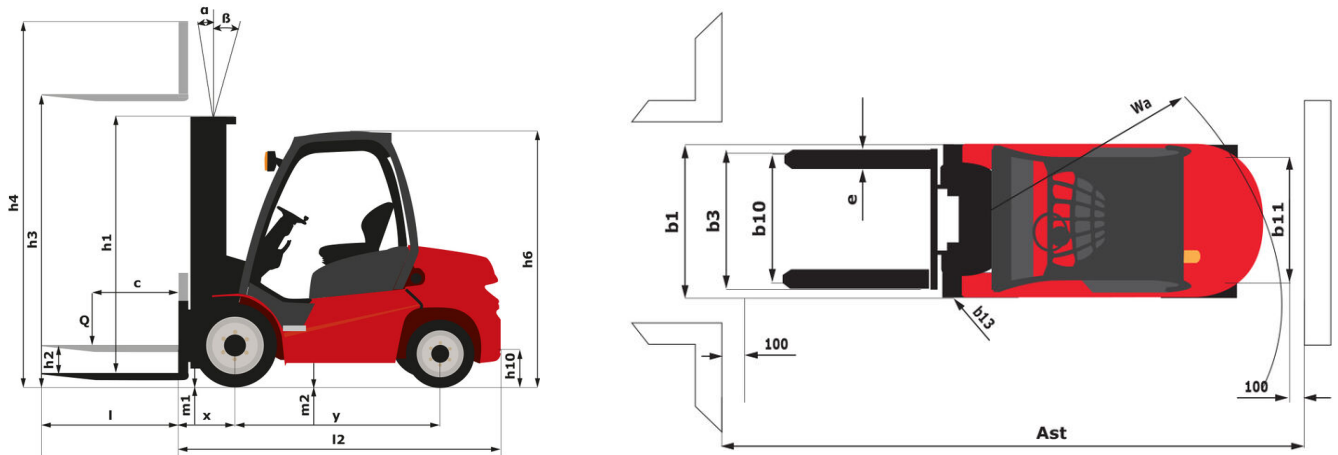
Technical sheet :

MI 18 D



	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		MI 18 D
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	1800 kg
1.6	Load centre 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		3100 kg
2.2	Weight on front axle (laden) / rear axle (laden)		4260 kg / 640 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1315 kg / 1785 kg
	Wheels		
3.1	Tyres type		PPS
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		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	6 / 12
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
4.22	Forks section / width / length	s / e / l	35 mm x 100 mm / 1150 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		FEM 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
4.36	Internal turning radius (over tyres)	b13	55 mm
4.35	Turning radius	Wa	2010 mm
	Performances		
5.1	Travel speed (laden / unladen)		18.60 km/h / 19.30 km/h
5.2	Lifting speed (laden / unladen)		0.50 m/s / 0.55 m/s
5.3	Lowering speed (laden / unladen)		0.50 m/s / 0.55 m/s
5.5	Drawbar pull (Laden / Unladen)		1440 daN / 795 daN
5.7	Gradeability (laden / unladen)		20 % / 20 %
5.10	Service brake		Hydraulic
	Engine		
7.1	Engine brand / model		Yanmar / 4TNE92-HRJ
7.2	Engine power according to ISO 1585		32.80 kW
7.3	Rated speed		2450 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2659 cm ³
7.5	Fuel consumption according to VDI cycle		3.26 l/h
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		160 bar
8.3	Oil flow rate for attachments		56 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 86 dB(A)

Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 33	FVD 37	FVD 40
h2 - Free lift	mm	155	155	155
h1 - Height mast lowered *	mm	2145	2395	2595
h3 - Lifting Height	mm	3300	3700	4000
h4 - Height mast extended *	mm	3865	4265	4600
α / β - Mast inclination (front / rear)	°	6 / 12	6 / 12	6 / 12
Residual capacity at max height	kg	0		1800
Residual capacity without attachment (Industrial load chart)	kg	1800	1500	1800
Residual capacity with integrated side shift (Industrial load chart)	kg	1750	1500	1750
Height at max capacity	mm	3300	3700	

Free Lift Duplex		FLD 33	FLD 37	FLD 40
h2 - Free lift	mm	1575	1775	1975
h1 - Height mast lowered *	mm	2160	2360	2560
h3 - Lifting Height	mm	3300	3700	4000
h4 - Height mast extended *	mm	3885	4285	4585
α / β - Mast inclination (front / rear)	°	6 / 12	6 / 12	6 / 12
Residual capacity at max height	kg	1800	1800	1700
Residual capacity without attachment (Industrial load chart)	kg	1800	1800	1700
Residual capacity with integrated side shift (Industrial load chart)	kg	1750	1750	1650
Height at max capacity	mm	3300	3700	

Free Lift Triplex		FLT 43	FLT 45	FLT 47	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
h2 - Free lift	mm	1400	1500	1585	1600	1685	1885	2100	2200
h1 - Height mast lowered *	mm	2070	2120	2170	2220	2270	2470	2720	2870
h3 - Lifting Height	mm	4300	4500	4700	4800	5000	5500	6000	6500
h4 - Height mast extended *	mm	4980	5130	5380	5430	5595	6095	6730	7180
α / β - Mast inclination (front / rear)	°	6 / 6	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6	3 / 6
Residual capacity at max height	kg	1700	1700	1650	1650	1350	1050	750	
Residual capacity without attachment (Industrial load chart)	kg	1700	1700	1650	1650	1350	1050	750	
Residual capacity with integrated side shift (Industrial load chart)	kg	1600	1600	1550	1550	1250	950	650	



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