Technical sheet :

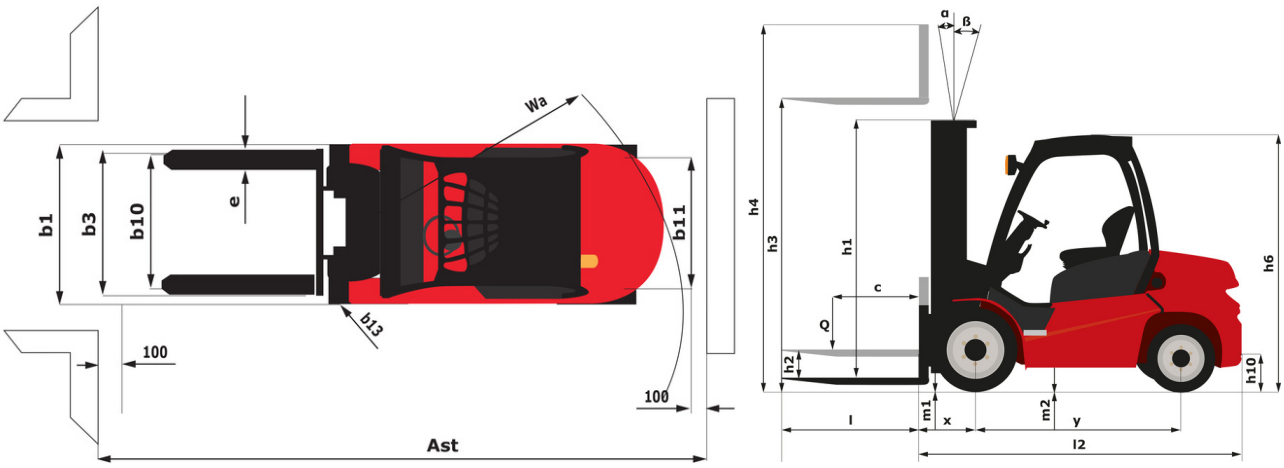
MI 80 D



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MI 80 D	MI 80 D
1.3	Power source		Diesel	Diesel
1.4	Operator type		Sitting	Sitting
1.5	Max. capacity	Q	8000 kg	17637 lb
1.6	Load center of gravity	c	600 mm	24 in
1.8	Load distance, centre of drive axle to fork	x	686 mm	27 in
1.9	Wheelbase	y	2600 mm	102 in
	Weight			
2.1	Service weight		12540 kg	27646 lb
2.2	Weight on front axle (laden) / rear axle (laden)		18340 kg / 2200 kg	40433 lb / 4850 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		5180 kg / 7360 kg	11420 lb / 16226 lb
	Wheels			
3.1	Tires type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		9.00-20-14PR	9.00-20-14PR
3.3	Dimensions of rear wheels		9.00-20-14PR	9.00-20-14PR
3.5	Number of front wheels / rear wheels		4 / 2	4 / 2
3.5.2	Number of drive wheels		4	4
3.6	Front wheel gauge	b10	1628 mm	64 in
3.7	Rear wheel gauge	b11	1700 mm	67 in
	Dimensions			
4.7	Height of overhead guard (cabin)	h6	2580 mm	102 in
4.8	Seat height/stand height	h7	1505 mm	59 in
4.12	Height of towing bar (coupling height)	h10	840 mm	33 in
4.19	Overall length	l1	5535 mm	218 in
4.20	Length to face of forks	l2	4015 mm	158 in
4.21	Overall width	b1	2165 mm	85 in
4.21	Overall width - Twinned wheels	b1	2165 mm	85 in
4.22	Forks section / width / length	s / e / l	75 mm x 160 mm x 1520 mm	3 in x 6 in x 60 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	185 mm	7 in
4.32	Ground clearance at centre of wheelbase	m2	339 mm	13 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	5665 mm	223 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	5803 mm	228 in
4.35	Turning radius	Wa	3675 mm	145 in
4.36	Internal turning radius (over tyres)	b13	1327 mm	52 in
	Performances			
5.1	Travel speed (laden / unladen)		24.90 km/h-25.50 km/h	15 mph-16 mph
5.2	Lifting speed (laden / unladen)		0.37 m/s-0.39 m/s	1 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		0.45 m/s-0.36 m/s	1 ft/s-1 ft/s
5.5	Drawbar pull (Laden / Unladen)		8600 daN / 5070 daN	8600 daN / 5070 daN
5.7	Gradeability (laden / unladen)		35 % / 35 %	35 % / 35 %
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
7.1	Engine brand / model		Deutz / TCD 3.6	Deutz / TCD 3.6
7.2	Engine power according to ISO 1585		85 kW	85 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		64 l/min	17 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 80 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
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)	106.3 (2700)	112.2 (2850)	118.1 (3000)	126 (3200)	137.8 (3500)	147.6 (3750)
h2 - Mast free lift	in (mm)	7.9 (200)	7.9 (200)	7.9 (200)	7.9 (200)	7.9 (200)	7.9 (200)
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)	165.7 (4210)	177.6 (4510)	189.4 (4810)	205.1 (5210)	224.8 (5710)	244.5 (6210)
Residual capacity at max height	lb (kg)	17637 (8000)	17637 (8000)	17637 (8000)	17637 (8000)	17637 (8000)	17637 (8000)
Height at max capacity	in (mm)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	177.2 (4500)	196.9 (5000)

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)	108.3 (2750)	112.2 (2850)	116.1 (2950)	122 (3100)	128 (3250)
h2 - Mast free lift	in (mm)	58.5 (1485)	62.4 (1585)	63 (1600)	70.9 (1800)	78.1 (1985)
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)	227.4 (5775)	239.2 (6075)	250.4 (6360)	268.1 (6810)	286.4 (7275)
Residual capacity at max height	lb (kg)	15432 (7000)	15432 (7000)	14330 (6500)	13448 (6100)	12346 (5600)
Height at max capacity	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



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