

Technical sheet :

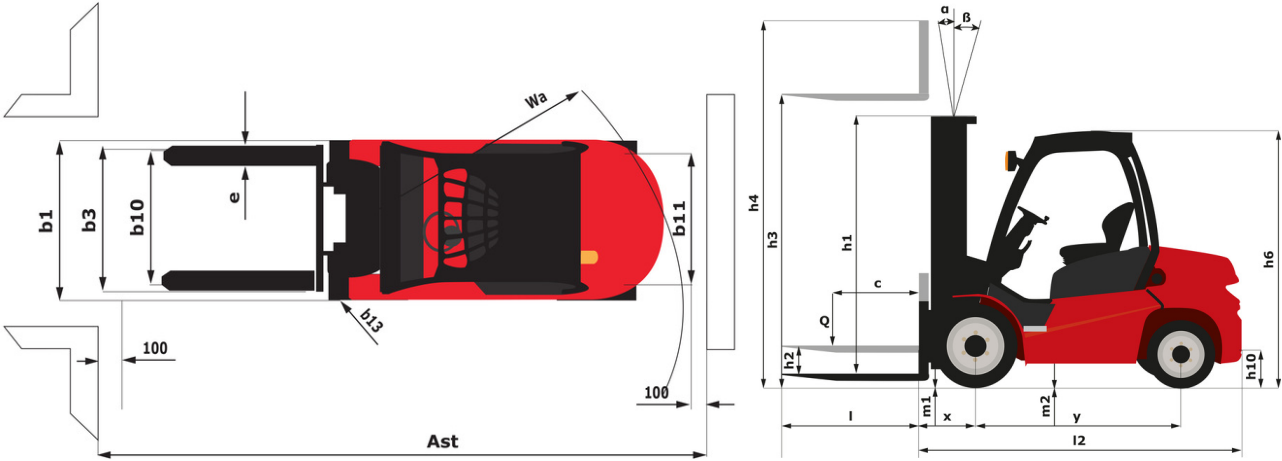
MI 15 D



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MI 15 D	MI 15 D
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	1500 kg	3307 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)		3820 kg / 585 kg	8422 lb / 1290 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1325 kg / 1580 kg	2921 lb / 3483 lb
	Wheels			
3.1	Tires type		Solid tires	Solid tires
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	3310 mm	130 in
4.20	Length to face of forks	l2	2240 mm	88 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 1150 mm	1 in x 4 in x 45 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	3590 mm	141 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3790 mm	149 in
4.35	Turning radius	Wa	1985 mm	78 in
4.36	Internal turning radius (over tyres)	b13	55 mm	2 in
	Performances			
5.1	Travel speed (laden / unladen)		18.50 km/h-19 km/h	11 mph-12 mph
5.2	Lifting speed (laden / unladen)		0.50 m/s-0.55 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)		1450 daN / 760 daN	1450 daN / 760 daN
5.7	Gradeability (laden / unladen)		20 % / 20 %	20 % / 20 %
5.10	Service brake		Hydraulic	Hydraulic
	Transmission type		Torque converter	Torque converter
	Engine			
7.1	Engine brand / model		Yanmar / 4TNE92-HRJ	Yanmar / 4TNE92-HRJ
7.2	I.C. Engine power rating		32.80 kW	32.80 kW
7.3	Rated speed		2450 rpm	2450 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		56 l/min	15 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 86 dB	< 86 dB
8.4	Sound level at the driver's ear according to DIN 12 053		86 dB	86 dB

MI 15 D - 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	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)	3307 (1500)	3307 (1500)	3307 (1500)
Residual capacity with integrated side shift at max height	lb (kg)	3307 (1500)	3307 (1500)	3307 (1500)
Height at max capacity	in (mm)	129.9 (3300)	145.7 (3700)	157.5 (4000)
Height at max capacity with integrated sideshift	in (mm)	129.9 (3300)	145.7 (3700)	157.5 (4000)

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	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)	3307 (1500)	3307 (1500)	3307 (1500)
Residual capacity with integrated side shift at max height	lb (kg)	3307 (1500)	3307 (1500)	3307 (1500)
Height at max capacity	in (mm)	129.9 (3300)	145.7 (3700)	157.5 (4000)
Height at max capacity with integrated sideshift	in (mm)	129.9 (3300)	145.7 (3700)	157.5 (4000)

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