Technical sheet :

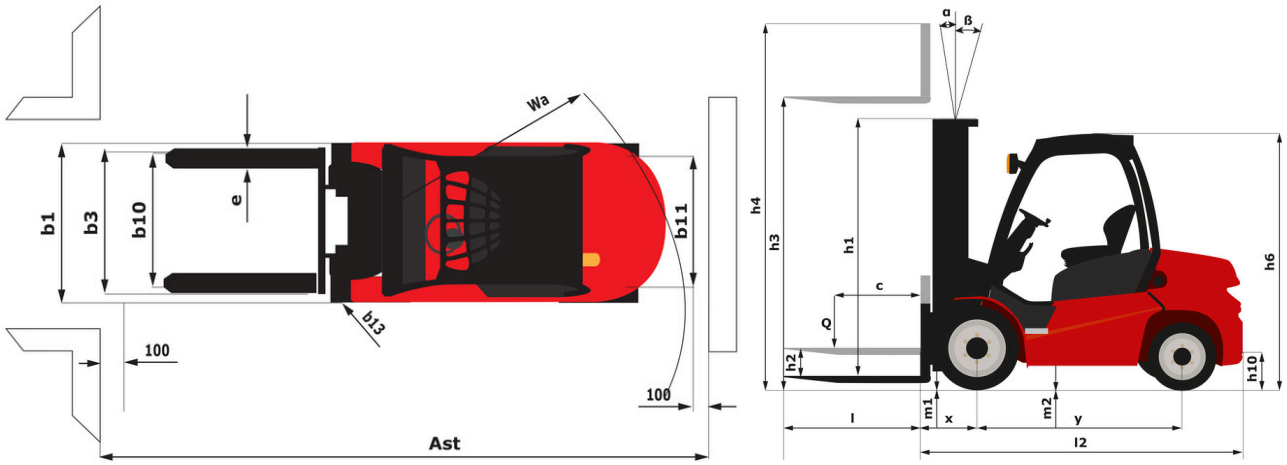
MI 40 D US



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MI 40 D US
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	8818 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	22 in
1.9	Wheelbase	y	79 in
	Standard mast reference of the machine		FVD 30
	Weight		
2.1	Service weight		13889 lb
2.2	Weight on front axle (laden) / rear axle (laden)		19842 lb / 2866 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		6173 lb / 7716 lb
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		300-15 18PR
3.3	Dimensions of rear wheels		7.00-12-12PR
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	46 in
3.7	Rear wheel gauge	b11	44 in
	Dimensions		
4.8	Seat height/stand height	h7	54 in
4.7	Height of overhead guard (cabin)	h6	94 in
4.12	Height of towing bar (coupling height)	h10	18 in
4.19	Overall length	l1	169 in
4.20	Length to face of forks	l2	121 in
4.21	Overall width	b1	55 in
4.21	Overall width - Single wheels	b1	55 in
4.22	Forks section / width / length	s / e / l	2 in x 5 in x 48 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	49 in
4.31	Ground clearance below mast (standard)	m1	7 in
4.32	Ground clearance at centre of wheelbase (standard)	m2	9 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	183 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	188 in
4.35	Turning radius	Wa	109 in
4.36	Internal turning radius (over tyres)	b13	5 in
	Performances		
5.1	Travel speed (laden / unladen)		14 mph-15 mph
5.2	Lifting speed (laden / unladen)		2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s-2 ft/s
5.5	Drawbar pull (Laden / Unladen)		4000 daN / 200 daN
5.7	Gradeability (laden / unladen)		31 % / 39 %
5.10	Service brake		Hydraulic
	Transmission type		Torque converter
	Engine		
7.1	Engine brand / model / norm		Cummins / QSF2.8T4F / Tier 4 final
7.2	Engine power (Hp / kW)		75 Hp/55 kW
7.3	Rated speed		2600 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 171 in³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		2321 PSI
8.3	Oil flow rate for attachments		24 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB
8.4	Sound level at the driver's ear according to DIN 12 053		84 dB

MI 40 D US - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12
h1 - Mast lowered height	in	88.4	94.3	98.2	102.2	110	120.9	131.7
h2 - Mast free lift	in	6.3	6.3	6.3	6.3	6.3	6.3	6.3
h3 - Mast lifting height	in	118.1	129.9	137.8	145.7	157.5	177.2	196.9
h4 - Mast extended height	in	164.2	176	183.9	191.7	203.5	223.2	242.9
Residual capacity at max height	lb	8818	8818	8818	8818	8818	8157	7055
Residual capacity with integrated side shift at max heigth	lb	8818	8818	8818	8818	8818	7937	6834
Height at max capacity	in	118.1	129.9	137.8	145.7	157.5	157.5	157.5
Height at max capacity with integrated sideshift	in	118.1	129.9	137.8	145.7	157.5	157.5	157.5

Free Lift Duplex (FLD)		FLD 30	FLD 33	FLD 35	FLD 37
α - Mast/fork carriage tilt, forward	°	6	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12	12
h1 - Mast lowered height	in	87.6	93.5	97.5	101.4
h2 - Mast free lift	in	53.7	59.6	63.5	67.5
h3 - Mast lifting height	in	118.1	129.9	137.8	145.7
h4 - Mast extended height	in	164.2	176	183.9	191.7
Residual capacity at max height	lb	8818	8818	8818	8818
Residual capacity with integrated side shift at max heigth	lb	8818	8818	8818	8818
Height at max capacity	in	118.1	129.9	137.8	145.7
Height at max capacity with integrated sideshift	in	118.1	129.9	137.8	145.7

Free Lift Triplex (FLT)		FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	3	3
β - Mast/fork carriage tilt, backward	°	12	6	6	6	6	6	6
h1 - Mast lowered height	in	81.9	85.8	88.5	90.9	94.9	101.4	109.8
h2 - Mast free lift	in	48.4	52.3	54.9	57.4	61.4	67.9	76.3
h3 - Mast lifting height	in	157.5	169.3	177.2	185	196.9	216.5	236.2
h4 - Mast extended height	in	203.5	215.4	223.8	231.1	242.9	262.6	282.7
Residual capacity at max height	lb	8818	8598	7716	7275	6834	6173	5071
Residual capacity with integrated side shift at max heigth	lb	8598	8378	7496	7055	6614	5952	4850
Height at max capacity	in	157.5	98.4	157.5	157.5	157.5	98.4	98.4

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