Technical sheet :

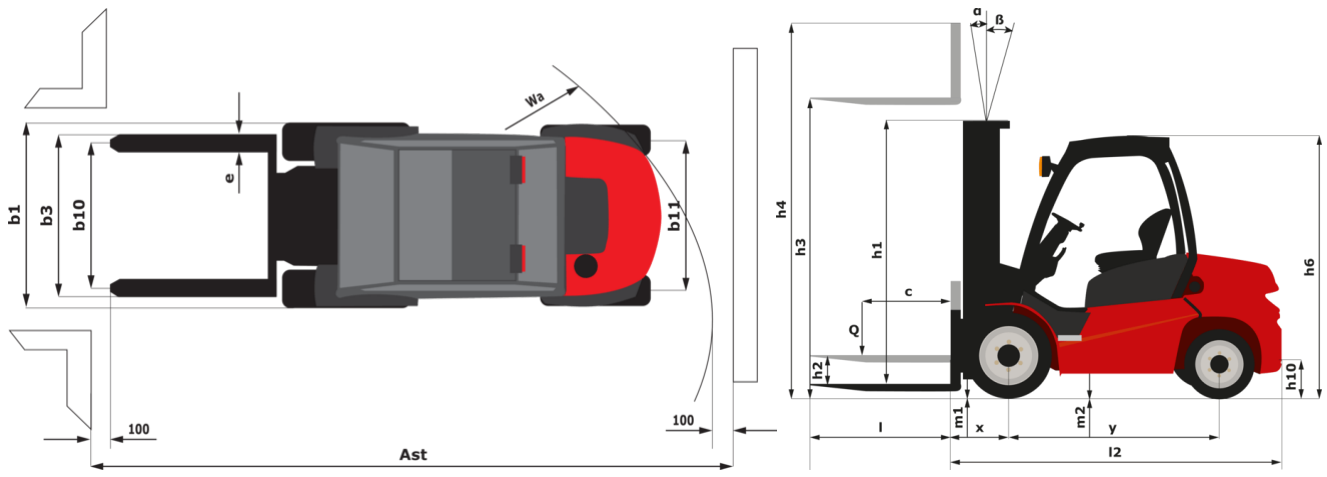
MSI 40



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MSI 40	MSI 40
1.3	Power source		Diesel	Diesel
1.4	Operator type		Sitting	Sitting
1.5	Max. capacity	Q	4000 kg	8818 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	691 mm	27 in
1.9	Wheelbase	y	2075 mm	82 in
	Weight			
2.1	Service weight		6980 kg	15388 lb
2.2	Weight on front axle (laden) / rear axle (laden)		9245 kg / 1735 kg	20382 lb / 3825 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3210 kg / 3770 kg	7077 lb / 8311 lb
	Wheels			
3.1	Tires type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		315/70 R22,5	315/70 R22,5
3.3	Dimensions of rear wheels		225/75 R15	225/75 R15
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	1420 mm	56 in
3.7	Rear wheel gauge	b11	1142 mm	45 in
	Dimensions			
4.8	Seat height/stand height	h7	1300 mm	51 in
4.12	Height of towing bar (coupling height)	h10	540 mm	21 in
4.19	Overall length	l1	4494 mm	177 in
4.20	Length to face of forks	l2	3294 mm	130 in
4.21	Overall width	b1	1732 mm	68 in
4.22	Forks section / width / length	s / e / l	50 mm x 150 mm x 1200 mm	2 in x 6 in x 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A	3A
4.24	Fork carriage width	b3	1670 mm	66 in
4.31	Ground clearance below mast	m1	185 mm	7 in
4.32	Ground clearance at centre of wheelbase	m2	225 mm	9 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4756 mm	187 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4956 mm	195 in
4.35	Turning radius	Wa	2865 mm	113 in
4.36	Internal turning radius (over tyres)	b13	125 mm	5 in
	Performances			
5.1	Travel speed (laden / unladen)		22 km/h-22 km/h	14 mph-14 mph
5.2	Lifting speed (laden / unladen)		0.60 m/s-0.60 m/s	2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		0.40 m/s-0.50 m/s	1 ft/s-2 ft/s
5.5	Drawbar pull (Laden / Unladen)		3180 daN / 2020 daN	3180 daN / 2020 daN
5.7	Gradeability (laden / unladen)		24 % / 29 %	24 % / 29 %
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
7.1	Engine brand / model		Perkins / 854 F 10794	Perkins / 854 F 10794
7.2	Engine power according to ISO 1585		55 kW	55 kW
7.3	Rated speed		2200 rpm	2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 3400 cm³	4 - 207 in³
	Miscellaneous			
8.1	Type of drive control		Hydraulic	Hydraulic
8.2	Working hydraulic pressure for attachments		230 bar	3336 PSI
8.3	Oil flow rate for attachments		45 l/min	12 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 81 dB	< 81 dB

MSI 40 - 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
Mast/fork carriage tilt, forward	°	10	10	10	10	10	10	10
Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12
h1 - Mast lowered height	in (mm)	95.5 (2425)	101.4 (2575)	105.3 (2675)	109.3 (2775)	115.2 (2925)	125 (3175)	134.8 (3425)
h3 - Mast lifting height	in (mm)	118.1 (3000)	129.9 (3300)	137.8 (3500)	145.7 (3700)	157.5 (4000)	177.2 (4500)	196.9 (5000)
h4 - Mast extended height	in (mm)	156.6 (3977)	168.4 (4277)	176.3 (4477)	184.1 (4677)	195.9 (4977)	215.6 (5477)	235.3 (5977)
Residual capacity at max height	lb (kg)	8818 (4000)	8818 (4000)	8818 (4000)	8818 (4000)	8818 (4000)	8818 (4000)	8818 (4000)
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
Mast/fork carriage tilt, forward	°	10	10	10	10	10	10	10	10
Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12	12
h1 - Mast lowered height	in (mm)	85.6 (2175)	89.6 (2275)	93.5 (2375)	96.5 (2450)	98.8 (2510)	103.3 (2625)	109.3 (2775)	116.1 (2950)
h2 - Mast free lift	in (mm)	49.5 (1258)	53.5 (1358)	57.4 (1458)	60.4 (1533)	62.7 (1593)	67.2 (1708)	73.1 (1858)	80 (2033)
h3 - Mast lifting height	in (mm)	145.7 (3700)	157.5 (4000)	169.3 (4300)	177.2 (4500)	185 (4700)	196.9 (5000)	216.5 (5500)	236.2 (6000)
h4 - Mast extended height	in (mm)	183.7 (4667)	195.6 (4967)	207.4 (5267)	215.2 (5467)	223.1 (5667)	234.9 (5967)	254.6 (6467)	274.3 (6967)
Residual capacity at max height	lb (kg)	8818 (4000)	8818 (4000)	8818 (4000)	8818 (4000)	8378 (3800)	8157 (3700)	7716 (3500)	7496 (3400)
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)

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



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.
MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes