Technical book

MSI / MH Range
2 to 5 tons
Semi industrial IC forklifts

MANITOU

MH : 2000 - 2500 kg

TECHNICAL SPECS

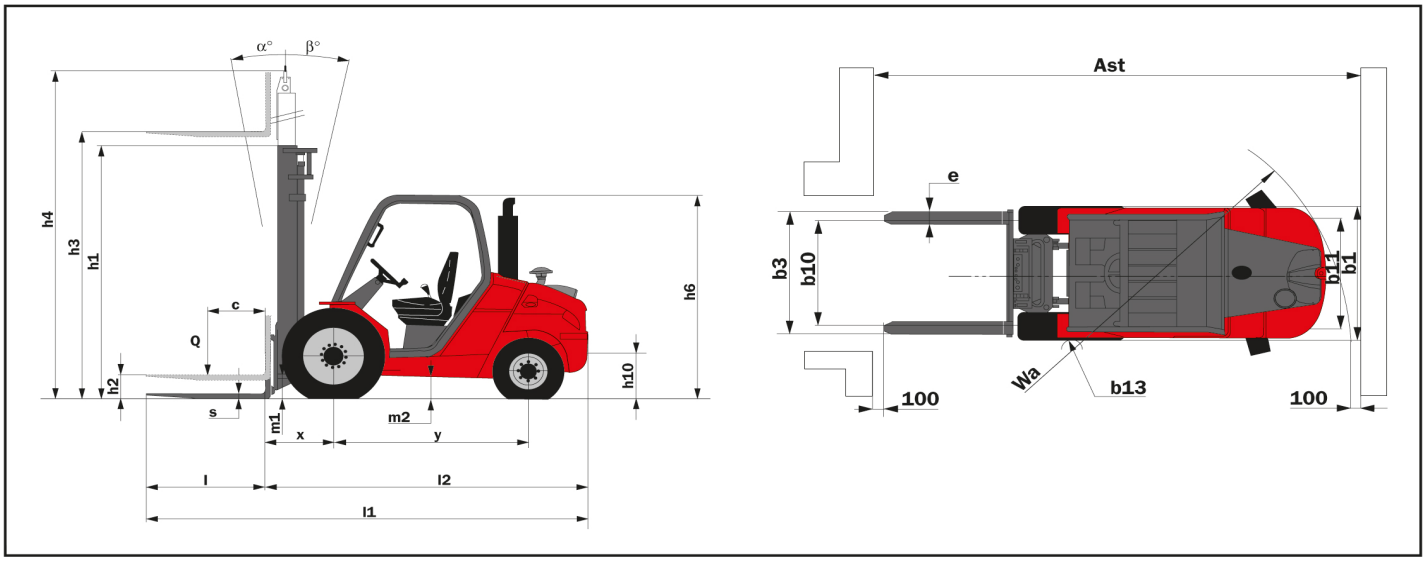
Specifications	1.1	Manufacturer			**MANITOU**
	1.2	Model			**MH 25**
	1.3	Power source			Diesel
	1.4	Driving position			Seated
	1.5	Nominal capacity	Q	t	2500
	1.6	Load - centre of gravity	c	mm	500
	1.8	Distance from the load-bearing surface to centre of front axle (1)	x	mm	625
	1.9	Wheelbase	y	mm	1800
Weight	2.1	Operating weight		kg	4350
	2.2	Axle load, with load, front / rear		kg	5812 / 948
	2.3	Axle load, without load, front / rear		kg	1750 / 2510
Tyres, frame	3.1	Tyre equipment: cushion (V), superelastic (SE), pneumatic (L)			L
	3.2	Size of front wheels		" or mm	280/80 R20 XMCL
	3.3	Size of rear wheels		" or mm	27,10 - 12 IC 30 14PR
	3.5	Number of front wheels (x = drive wheel) / rear wheels			4
	3.6	Front wheel gauge (middle of wheels)	b10	mm	1450
	3.7	Rear wheel gauge (middle of wheels)	b11	mm	1160
Dimensions	4.1	Tilt of mast forwards / backwards	α / β	deg	10 / 12
	4.2	Height mast lowered	h1	mm	1835
	4.3	Free lift	h2	mm	-
	4.4	Lift height	h3	mm	3300
	4.5	Height mast extended	h4	mm	4070
	4.7	Height of overhead guard (cabin)	h6	mm	1990
	4.8	Height of seat	h7	mm	1025
	4.12	Height of towing bar	h10	mm	470
	4.19	Overall lenght	l1	mm	4045
	4.20	Lenght at fork heels	l2	mm	2945
	4.21	Total width (overall)	b1	mm	150
	4.22	Fork dimensions	s / e / l	mm	40 / 100 / 1100
	4.23	Fork carriage to DIN 15173 A/B			FEM2A
	4.24	Width of fork carriage	b3	mm	1260
	4.31	Ground clearance below mast	m1	mm	270
	4.32	Ground clearance at centre of wheel-base	m2	mm	260
	4.33	Width of aisle for pallet 1000 x 1200 crossways	Ast	mm	5090
	4.34	Width of aisle for pallet 800 x 1200 lengthways	Ast	mm	5290
	4.35	Turning radius	Wa	mm	2500
	4.36	Inner turning radius	b13	mm	1080
Performances	5.1	Speed of travel laden / unladen		km/h	14 / 14
	5.2	Speed of raise laden / unladen		m/s	0,6 / 0,6
	5.3	Speed of lowering laden / unladen		m/s	0,6 / 0,5
	5.5	Nominal towing power laden / unladen		N	3550 / 2190
	5.7	Gradeability with / without load		%	50 / 48
	5.10	Service brake			Hydraulic
Motors	7.1	Manufacturer / Type of engine			Kubota V2403 M T E38
	7.2	Power delivery		kW	44
	7.3	Rated speed		tr/min	1600
	7.4	Number of pistons / Cubic capacity		cm3	4/2434
Miscellaneaous	8.1	Power control			Hydraulic
	8.2	Operating pressure for attachments		bar	125
	8.3	Oil flow for attachments		l/min	77
	8.4	Average noise level for the driver (in motion) measured / guaranteed		dB	81

1 - Values with duplex mast

Data is based on standard configurations (forks, mast).
Performance data and dimensions are nominal and subject to tolerances.
Manitou products and their specifications are subject to change without notice.

MANITOU

DIMENSIONAL DRAWINGS



MASTS AND RESIDUAL CAPACITIES

MH 2,0 & 2,5 T			Free LIft Triplex	
			TLL37	TLL43
h3*	Lift height	mm	3740	4340
h1	Height mast lowered	mm	1945	2145
h2	Free lift	mm	1216	1416
h4	Height mast extended*	mm	4469	5069
MH20	Residual capacity at max height - c = 500 mm	kg	1600	1200
MH25	Residual capacity at max height - c = 500 mm	kg	1900	1250

* Without backrest and Integrated sideshift