

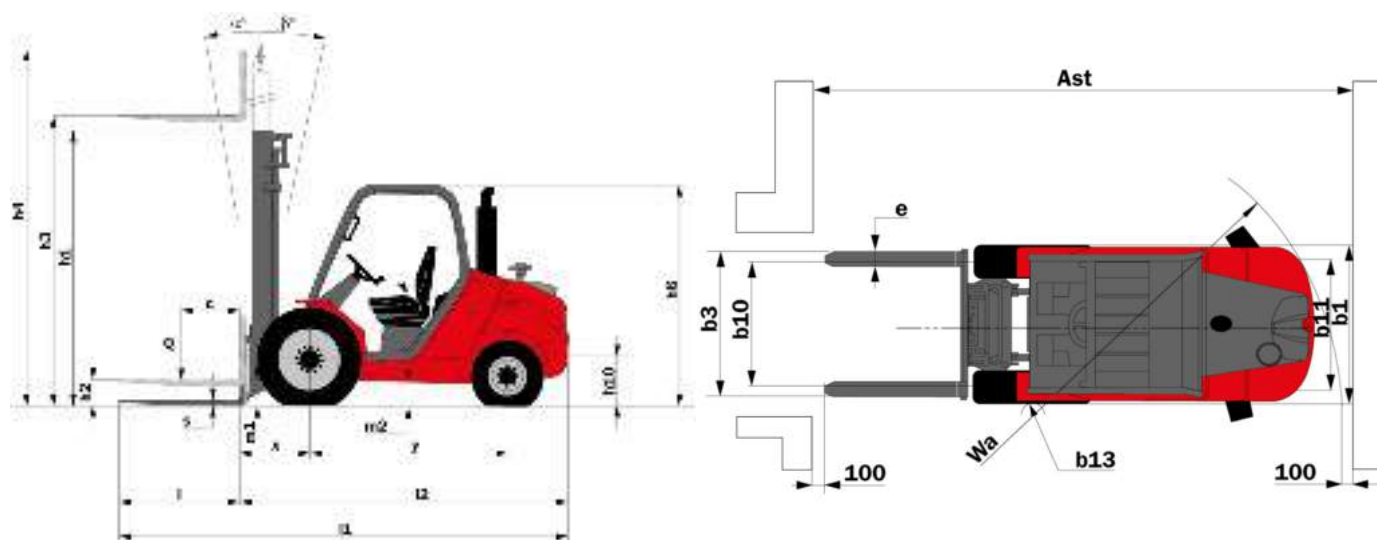
Technical sheet

MSI 20

Masted Forklift Trucks



	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	MSI 20
1.3	Type of traction	Diesel
1.4	Type of operation	Seated
1.5	Q - Rated capacity	2000 kg
1.9	y - Wheelbase	1800 mm
	Weight	
2.1	Weight of truck in working order	3770 kg
2.2	Laden weight on front/rear axle	4911 kg / 859 kg
2.3	Unladen weight on front/rear axle	1661 kg / 2109 kg
	Wheels	
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	L
3.5	Number of front wheels (x)	2x / 2
	Dimensions	
4.1	α / β - Front/Rear mast angle	10 ° / 12 °
4.2	h1 - Height (mast lowered)	2300 mm
4.3	h2 - Free lift	130 mm
4.4	h3 - Lift height (Duplex mast)	3300 mm
4.5	h4 - Height of extended mast	4130 mm
4.19	l1 - Total length	4045 mm
4.20	l2 - Length to fork heel	2950 mm
4.21	b1 - Overall width - Single/twin wheels	1320 mm / -
4.22	e / s / l - Fork dimensions	1100 x 100 x 40
4.23	Fork carriage to DIN 15173 A/B	FEM 2A
4.24	b3 - Width of fork clamp	1260 mm
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	4490 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	4590 mm
4.35	Wa - Turning radius	2600 mm
	Performances	
5.1	Speed of travel laden / unladen	20 km/h / 20 km/h
5.5	Nominal pulling force laden / unladen	2280 daN / -
5.7	Maximum ramp laden / unladen	33 % / -
	Engine	
7.1	Engine manufacturer / Type	Kubota / 3A
7.2	Useful power	48.60 kW
7.4	Number of pistons / Capacity	4 / 2434 cm ³
	Miscellaneous	
8.2	Working hydraulic pressure for attachments	140 bar
8.3	Oil flow rate for attachments	77 l/min



Characteristics of masts and residual capacities

Duplex Total Visibility		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
Lift height	mm	3000	3300	3500	3700	4000	4500	5000
Height (mast lowered)	mm	2150	2300	2400	2560	2750	3000	3250
Free lift	mm	130	130	130	130	130	130	130
Height of extended mast	mm	3831	4131	4331	4531	4831	5331	5831
Forward/backward mast tilt angle	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	6 / 6

Triplex Free Lift		FLT 37	FLT 40	FLT 43	FLT 47	FLT 50	FLT 55	FLT 60
Lift height	mm	3700	4000	4300	4700	5000	5500	2750
Height (mast lowered)	mm	1950	2050	2150	2300	2400	2560	6769
Free lift	mm	1221	1321	1421	1571	1671	1831	100000 0
Height of extended mast	mm	4469	4769	5069	5469	5769	6269	2021
Forward/backward mast tilt angle	°	10 / 12	10 / 12	10 / 12	10 / 12	6 / 6	6 / 6	6 / 6



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