

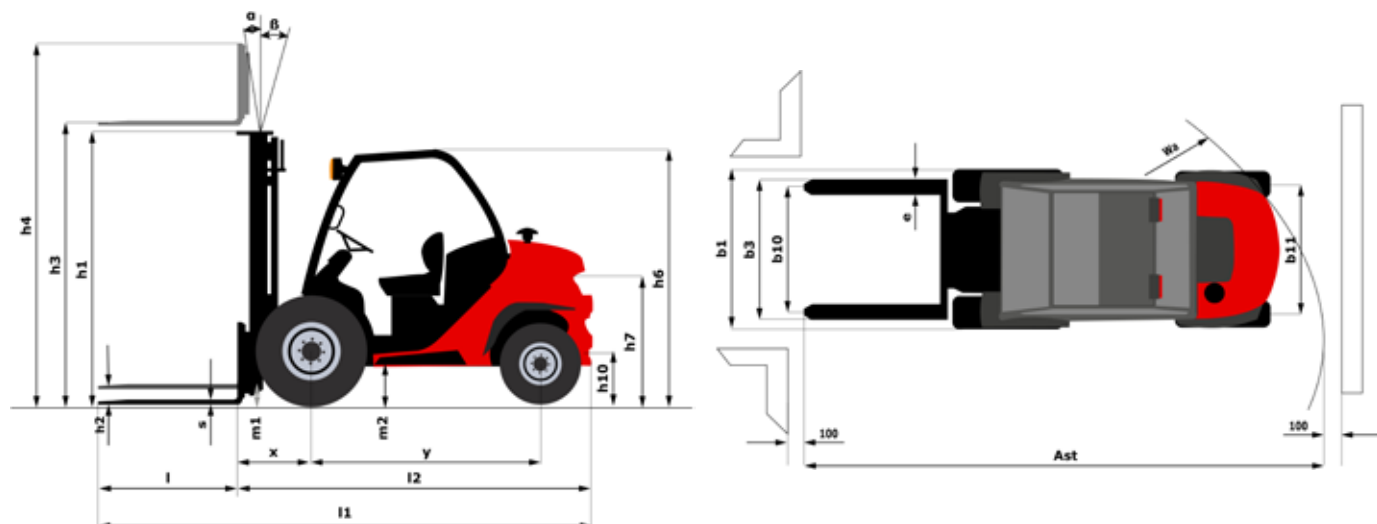
Technical sheet

# **MSI 35 S5**

Masted Forklift Trucks



Technical characteristics		Metric	Imperial
1.1	Manufacturer	Manitou	Manitou
1.2	Model	MSI 35 s5	MSI 35 s5
1.3	Type of traction	Diesel	Diesel
1.4	Type of operation	Seated	Seated
1.5	Q - Rated capacity	3500 kg	7716 lbs
1.6	c - Center of gravity of load	500 mm	1 in
1.8	x - Distance from the load bearing surface to the centre of the front axle	631 mm	2 ft
1.9	y - Wheelbase	1900 mm	6 ft
Weight			
2.1	Weight of truck in working order	4645 kg	10240 lbs
2.2	Laden weight on front/rear axle	7260 kg / 885 kg	16006 lbs / 1951 lbs
2.3	Unladen weight on front/rear axle	1680 kg / 2965 kg	3704 lbs / 6537 lbs
Wheels			
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	mft_Pneumatic	mft_Pneumatic
3.2	Size of front wheels	300-15/18 6T P43	-
3.3	Size of rear wheels	7.00-12/12 ED PLUS	-
3.5	Number of front wheels (x)	2x / 2	2x / 2
3.6	b10 - Front track	1.04 mm	3 in
3.7	b11 - Rear track	1.11 mm	3 in
Dimensions			
4.1	$\alpha$ / $\beta$ - Front/Rear mast angle	10 ° / 12 °	10 ° / 12 °
4.2	h1 - Height (mast lowered)	2280 mm	7 ft 1 in
4.3	h2 - Free lift	135 mm	1 in
4.4	h3 - Lift height (Duplex mast)	3300 mm	10 ft 1 in
4.5	h4 - Height of extended mast	4100 mm	13 ft 1 in
4.7	h6 - Height of driver protection (cab)	2095 mm	6 ft 1 in
4.8	h7 - Height of seat	972 mm	3 ft
4.19	l1 - Total length	4339 mm	14 ft
4.20	l2 - Length to fork heel	3189 mm	10 ft 1 in
4.21	b1 - Overall width - Single/twinned wheels	1330 mm / -	4 ft / -
4.22	e / s / l - Fork dimensions	1150 X 122 X 50	3.09 x 0.05 x 0.02
4.23	Fork carriage to DIN 15173 A/B	FEM 3A	FEM 3A
4.24	b3 - Width of fork clamp	1260 mm	4 ft
4.31	m1 - Ground clearance under mast	260 mm	1 in
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	4661 mm	15 ft
4.35	Wa - Turning radius	2680 mm	8 ft 1 in
Performances			
5.1	Speed of travel laden / unladen	18 km/h / 22 km/h	11.18 mph / 13.67 mph
5.2	Lifting speed laden / unladen	0.50 m/s / 0.50 m/s	1.08 ft/s / 1.08 ft/s
5.3	Lowering speed laden / unladen	0.50 m/s / 0.30 m/s	1.08 ft/s / 1 ft/s
5.5	Nominal pulling force laden / unladen	1810 daN / 940 daN	4069 lbf / 2113 lbf
5.7	Maximum ramp laden / unladen	18 % / 14 %	18 % / 14 %
5.10	Service brake	Hydraulic	Hydraulic
Engine			
7.1	Engine manufacturer / Type	Kubota / Stage 3A	Kubota / Stage 3A
7.2	Useful power	36.50 kW	36.50 kW
7.3	Rated speed	2700 rpm	2700 rpm
7.4	Number of pistons / Capacity	4 / 2434 cm <sup>3</sup>	4 /
7.5	Fuel consumption according to VDI cycle	5.30 l/h	1.40 gph
Miscellaneous			
8.3	Oil flow rate for attachments	71 l/min	18.76 gpm



### Characteristics of masts and residual capacities

Full Visibility Duplex		FVD30	FVD33	FVD35	FVD37	FVD40	FVD45	FVD50	FVD55	FVD60	
Lift height	mm	3000	3300	3500	3700	4000	4500	5000	5500	6000	
Height (mast lowered)	mm	2150	2300	2400	2560	2750	3000	3250	3500	3790	
Free lift	mm	90	90	90	90	90	90	90	90	90	
Height of extended mast	mm	3895	4195	4595	4595	4895	5595	5895	6595	6895	
Residual Capacity without attachment (Industrial load chart)	kg	3500									
Forward/backward mast tilt angle	°	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	6 / 6	6 / 6	6 / 6	

Free Lift Triplex		FLT37	FLT40	FLT43	FLT47	FLT50	FLT55	FLT60	FLT65	FLT70
Lift height	mm	3700	4000	4300	4700	5000	5500	6000	6500	7000
Height (mast lowered)	mm	2050	2150	2300	2400	2560	2750	3000	3250	3500
Free lift	mm	1292	1392	1542	1642	1802	1992	2242	2492	2242
Height of extended mast	mm	4505	4805	5105	5505	5805	6305	6805	7305	7805
Residual Capacity without attachment (Industrial load chart)	kg	3500			3000					
Forward/backward mast tilt angle	°	10 / 12	10 / 12	10 / 12	10 / 12	6 / 6	6 / 6	6 / 6	6 / 6	6 / 6



Groundwater Lift Trucks Ltd,  
Spurryhillock Industrial Estate,  
Stonehaven, Aberdeenshire, AB39 2NH  
01569 763247  
sales@groundwater.uk.com  
www.groundwater.uk.com



Siège Social  
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



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