

Technical sheet :

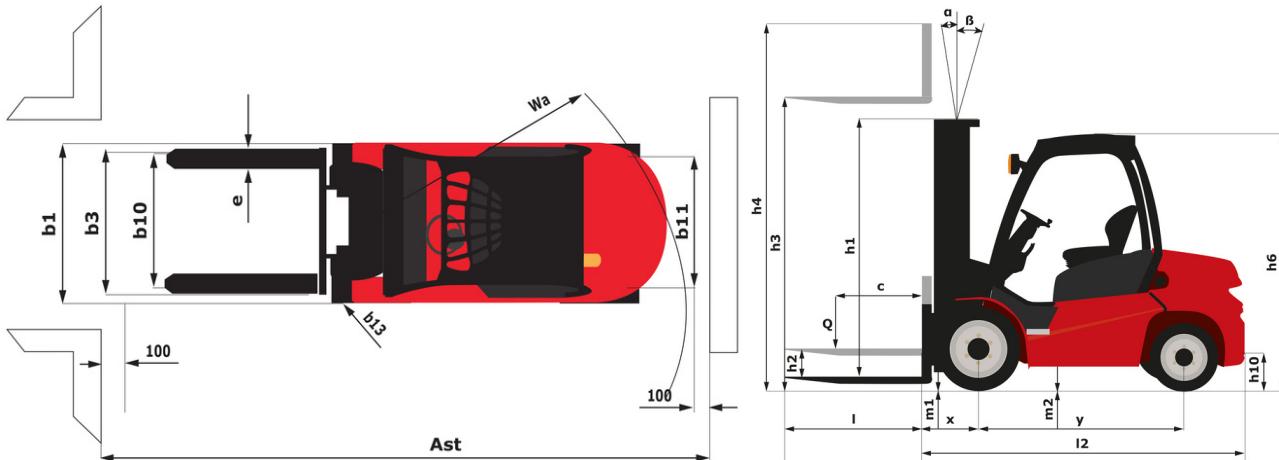
# MI 70 D ST5



 **MANITOU**  
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Technical characteristics		Imperial	
1.1	Manufacturer	MANITOU	
1.2	Model Name	MI 70 D ST5	
1.3	Power source	Diesel	
1.4	Operator type	Seated	
1.5	Max. capacity	15432 lb	
1.6	Load center of gravity	24 in	
1.8	Load distance, centre of drive axle to fork	24 in	
1.9	Wheelbase	91 in	
	Standard mast reference of the machine	FVD 30	
2.1	<b>Weight</b>		
2.2	Service weight	22289 lb	
	Weight on front axle (laden) / rear axle (laden)	33709 lb / 4012 lb	
3.1	<b>Wheels</b>		
3.2	Tires type	Solid tires	
3.3	Dimensions of front wheels	8.25-15 14PR	
3.5	Dimensions of rear wheels	8.25-15 14PR	
3.5.2	Number of front wheels / rear wheels	4 / 2	
3.6	Number of drive wheels	2	
3.7	Front wheel gauge	b10	59 in
	Rear wheel gauge	b11	67 in
4.8	<b>Dimensions</b>		
4.7	Seat height/stand height	h7	53 in
4.12	Height of overhead guard (cabin)	h6	96 in
4.19	Height of towing bar (coupling height)	h10	28 in
4.20	Overall length	l1	189 in
4.21	Length to face of forks	l2	142 in
4.21	Overall width	b1	78 in
4.22	Overall width - Twinned wheels	b1	78 in
4.23	Forks section / width / length	s / e / l	3 in x 6 in x 48 in
4.24	Fork carriage ISO 2328 (class/form) A/B		4A
4.31	Fork carriage width	b3	67 in
4.32	Ground clearance below mast	m1	7 in
4.34	Ground clearance at centre of wheelbase	m2	11 in
4.36	Aisle width for 800 x 1200 pallet lengthways	Ast	211 in
	Internal turning radius (over tyres)	b13	4 in
5.1	<b>Performances</b>		
5.2	Travel speed (laden / unladen)	14 mph-15 mph	
5.3	Lifting speed (laden / unladen)	1 ft/s-1 ft/s	
5.5	Lowering speed (laden / unladen)	2 ft/s-1 ft/s	
5.7	Drawbar pull (Laden / Unladen)	6500 daN / 2750 daN	
5.10	Gradeability (laden / unladen)	20 % / 20 %	
	Service brake	Hydraulic	
7.1	<b>Engine</b>		
7.2	Engine brand / model / norm	Deutz / TCD 3.6 L4 / Stage V	
7.3	Engine power (Hp / kW)	75 Hp/55.40 kW	
7.4	Rated speed	2300 rpm	
	Number of cylinders / Capacity of cylinders	4 - 221 in <sup>3</sup>	
8.3	<b>Miscellaneous</b>		
8.4	Oil flow rate for attachments	44 US gpm	
	Measured/guaranteed mean noise level at the ear of the operator	84 dB	

## MI 70 D ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	FVD 30	FVD 33	FVD 36	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward °	6	6	6	6	6	6
β - Mast/fork carriage tilt, backward °	12	12	12	12	6	6
h1 - Mast lowered height in	98.4	104.3	110.2	118.1	129.9	139.8
h2 - Mast free lift in	6.3	6.3	6.3	6.3	6.3	6.3
h3 - Mast lifting height in	118.1	129.9	141.7	157.5	177.2	196.9
h4 - Mast extended height in	164.1	175.9	187.7	203.4	223.1	242.8
Residual capacity at max height lb	15432	15432	15432	15432	15432	15432
Residual capacity with hooked-on side shift at max height lb	14330	14330	14330	14330	14330	14330
Height at max capacity in	118.1	129.9	141.7	157.5	177.2	196.9
Height at max capacity with hooked-on sideshift in	118.1	129.9	141.7	157.5	177.2	196.9

Free Lift Duplex (FLD)	FLD 30	FLD 33	FLD 36	FLD 40
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	96.5	102.4	108.3	116.1
h2 - Mast free lift in	52.6	58.5	64.4	72.2
h3 - Mast lifting height in	118.1	129.9	141.7	157.5
h4 - Mast extended height in	162	173.8	185.6	201.4
Residual capacity at max height lb	15432	15432	15432	15432
Residual capacity with hooked-on side shift at max height lb	14330	14330	14330	14330
Height at max capacity in	118.1	129.9	141.7	157.5
Height at max capacity with hooked-on sideshift in	118.1	129.9	141.7	157.5

Free Lift Triplex (FLT)	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward °	6	6	6	3	3
β - Mast/fork carriage tilt, backward °	6	6	6	6	6
h1 - Mast lowered height in	107.3	111.2	113.2	121.1	127
h2 - Mast free lift in	59.1	63	65.8	70.9	78.7
h3 - Mast lifting height in	177.2	189	196.9	216.5	236.2
h4 - Mast extended height in	225.8	237.6	244.6	267.1	284.8
Residual capacity at max height lb	14110	13889	13889	13448	12125
Residual capacity with hooked-on side shift at max height lb	13007	12787	12787	12346	11023
Height at max capacity in	157.5	157.5	157.5	157.5	157.5
Height at max capacity with hooked-on sideshift in	157.5	157.5	157.5	157.5	157.5



# **MANITOU** HANDLING YOUR WORLD

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