

Technical sheet :

# **M 70-2 H D ST5**

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 **MANITOU**  
HANDLING YOUR WORLD

Technical characteristics		Imperial	
1.1	Manufacturer		MANITOU
1.2	Model Name		M 70-2 H D ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	15432 lb
1.6	Load center of gravity	c	24 in
1.8	Load distance, centre of drive axle to fork	x	32 in
1.9	Wheelbase	y	98 in
Weight			
	Standard mast reference of the machine		FVD 40
2.1	Service weight		21782 lb
2.2	Weight on front axle (laden) / rear axle (laden)		32968 lb / 4246 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		8907 lb / 12875 lb
Wheels			
3.1	Tires type		Inflatable
3.2	Dimensions of front wheels		18R19.5 8T N20XF
3.3	Dimensions of rear wheels		265/70R19.5 6T P30HT3
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	67 in
3.7	Rear wheel gauge	b11	61 in
Dimensions			
4.7	Height of overhead guard (cabin)	h6	97 in
4.8	Seat height/stand height	h7	58 in
4.19	Overall length	l1	224 in
4.20	Length to face of forks	l2	165 in
4.21	Overall width	b1	85 in
4.22	Forks section x width x length	s / e / l	3 in x 6 in / 59 in
4.23	Fork carriage ISO 2328 (class/form) A/B		4A
4.24	Fork carriage width	b3	69 in
4.31	Ground clearance below mast	m1	12 in
4.32	Ground clearance at centre of wheelbase	m2	16 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	264 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	264 in
4.35	Turning radius	Wa	165 in
Performances			
5.1	Travel speed (laden / unladen)		36 ft/s / 14 mph
5.2	Lifting speed (laden / unladen)		1 ft/s / 1 ft/s
5.3	Lowering speed (laden / unladen)		1 ft/s / 1 ft/s
5.5	Drawbar pull (Laden / Unladen)		8060 daN / 2930 daN
5.7	Gradeability (laden / unladen)		45 % / 27 %
5.10	Service brake		Hydraulic
	Transmission type		Hydrostatic
Engine			
7.1	Engine brand / model / norm		Deutz / TD 3,6 / Stage V
7.2	Engine power (Hp / kW)		75 Hp/55.40 kW
7.3	Rated speed		2500 rpm
7.4	Number of cylinders		4
Miscellaneous			
8.2	Working hydraulic pressure for attachments		3336 PSI
8.3	Oil flow rate for attachments		21 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		78 dB

M 70-2 H D ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	FVD 36	FVD 40	FVD 45
$\alpha$ - Mast/fork carriage tilt, forward	°	15	15
$\beta$ - Mast/fork carriage tilt, backward	°	15	15
h1 - Mast lowered height	in	123.8	141.5
h3 - Mast lifting height	in	141.7	177.2
h4 - Mast extended height	in	195.3	230.7
Residual capacity at max height	lb	15432	11023
Residual capacity with hooked-on side shift at max height	lb	13889	8488
Height at max capacity	in	141.7	157.5



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