

Technical sheet :

MI 35 D ST5 US



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		MANITOU
1.2	Model Name		MI 35 D ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	7716 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	19 in
1.9	Wheelbase	y	67 in
	Weight		
2.1	Service weight		10714 lb
2.2	Weight on front axle (laden) / rear axle (laden)		16226 lb / 2205 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		4023 lb / 6691 lb
	Wheels		
3.1	Tires type		Super Elastic
3.2	Dimensions of front wheels		28-9-15 12
3.3	Dimensions of rear wheels		6.50-10 10
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	40 in
3.7	Rear wheel gauge	b11	38 in
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	84 in
4.8	Seat height/stand height	h7	48 in
4.12	Height of towing bar (coupling height)	h10	14 in
4.19	Overall length	l1	155 in
4.20	Length to face of forks	l2	110 in
4.21	Overall width	b1	48 in
4.21	Overall width - Single wheels	b1	48 in
4.21	Overall width - Twinned wheels	b1	68 in
4.22	Forks section / width / length	s / e / l	2 in x 5 in x 45 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	43 in
4.31	Ground clearance below mast	m1	5 in
4.32	Ground clearance at centre of wheelbase	m2	8 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	165 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	173 in
4.35	Turning radius	Wa	97 in
4.36	Internal turning radius (over tyres)	b13	6 in
	Performances		
5.1	Travel speed (laden / unladen)		11 mph-11 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)		2000 daN / 1520 daN
5.7	Gradeability (laden / unladen)		18 % / 20 %
5.10	Service brake		Hydraulic
	Engine		
7.1	Engine brand / model		Kubota / V2607-CR-E5B
7.2	Engine power according to ISO 1585		37.40 kW
7.3	Rated speed		2400 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 160 in³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		2321 PSI
8.3	Oil flow rate for attachments		9 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB

MI 35 D ST5 US - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 37	FVD 40
Mast/fork carriage tilt, forward	°	6	6
Mast/fork carriage tilt, backward	°	12	12
h1 - Mast lowered height	in	101	106.9
h2 - Mast free lift	in	5.7	5.7
h3 - Mast lifting height	in	145.7	157.5
h4 - Mast extended height	in	177.8	189.6
Residual capacity at max height	lb	7716	7716
Residual capacity with integrated side shift at max height	lb	7716	7716
Height at max capacity	in	145.7	157.5
Height at max capacity with integrated sideshift	in	145.7	157.5

Free Lift Duplex (FLD)		FLD 33	FLD 37	FLD 40
Mast/fork carriage tilt, forward	°	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	in	91.7	99.6	105.5
h2 - Mast free lift	in	59.1	66.9	72.8
h3 - Mast lifting height	in	129.9	145.7	157.5
h4 - Mast extended height	in	162.6	178.3	190.2
Residual capacity at max height	lb	7716	7716	7716
Residual capacity with integrated side shift at max height	lb	7716	7716	7716
Height at max capacity	in	129.9	145.7	157.5
Height at max capacity with integrated sideshift	in	129.9	145.7	157.5

Free Lift Triplex (FLT)		FLT 43	FLT 45	FLT 47	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
Mast/fork carriage tilt, forward	°	6	6	6	6	6	3	3	3
Mast/fork carriage tilt, backward	°	6	6	6	6	6	6	6	6
h1 - Mast lowered height	in	87.2	89.2	91.1	93.1	95.1	101	110.8	116.7
h2 - Mast free lift	in	54.5	56.5	58.5	60.4	62.4	68.3	78.1	84.1
h3 - Mast lifting height	in	169.3	177.2	185	189	196.9	216.5	236.2	255.9
h4 - Mast extended height	in	202	211.8	217.7	221.7	229.5	249.2	270.9	288.6
Residual capacity at max height	lb	7606	7496	7275	7275	6614	4850	3527	3307
Residual capacity with integrated side shift at max height	lb	7606	7275	7055	7055	6393	4630	3307	3086
Height at max capacity	in	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5
Height at max capacity with integrated sideshift	in	157.5	157.5	157.5	157.5	157.5	145.7	145.7	145.7



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