

Technical sheet :

# MSI-X 35

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 **MANITOU**  
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MSI-X_35
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	25 in
1.9	Wheelbase	y	75 in
	<b>Weight</b>		
2.1	Service weight		10240 lb
2.2	Weight on front axle (laden) / rear axle (laden)		16006 lb / 1951 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3704 lb / 6537 lb
	<b>Wheels</b>		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		300-15/18 6T P43
3.3	Dimensions of rear wheels		7.00-12/12 ED PLUS
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	41 in
3.7	Rear wheel gauge	b11	44 in
	<b>Dimensions</b>		
4.7	Height of overhead guard (cabin)	h6	82 in
4.8	Seat height/stand height	h7	38 in
4.19	Overall length	l1	167 in
4.20	Length to face of forks	l2	126 in
4.21	Overall width	b1	52 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	50 in
4.31	Ground clearance below mast	m1	10 in
4.32	Ground clearance at centre of wheelbase	m2	9 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	184 in
4.35	Turning radius	Wa	8792 ft 8 in
	<b>Performances</b>		
5.1	Travel speed (laden / unladen)		11 mph-14 mph
5.2	Lifting speed (laden / unladen)		2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s-0.98 ft/s
5.5	Drawbar pull (Laden / Unladen)		2070 daN / 1380 daN
5.7	Gradeability (laden / unladen)		26 % / 31 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	<b>Engine</b>		
7.1	Engine brand / model		Kubota / V2403
7.2	Engine power according to ISO 1585		36 kW
7.3	Rated speed		2700 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 149 in³
	<b>Miscellaneous</b>		
8.1	Type of drive control		Cable
8.2	Working hydraulic pressure for attachments		2611 PSI
8.3	Oil flow rate for attachments		12 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 80 dB
8.4	Sound level at the driver's ear according to DIN 12 053		80 dB

## MSI-X 35 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
Mast/fork carriage tilt, forward	°	10	10	3500	10	10
Mast/fork carriage tilt, backward	°	12	12	3500	12	12
h1 - Mast lowered height	in	84.1	90	100.2	107.7	117.6
h2 - Mast free lift	in	3.5	3.5	3.5	3.5	3.5
h3 - Mast lifting height	in	118.1	129.9	145.7	157.5	177.2
h4 - Mast extended height	in	147.2	159	174.7	186.5	206.2
Residual capacity at max height	lb	7716	7716			
Height at max capacity	in	118.1	145.7	145.7	98.4	98.4

Free Lift Triplex (FLT)		FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 55	FLT 60
Mast/fork carriage tilt, forward	°	10	10	10	10	10	6	6
Mast/fork carriage tilt, backward	°	12	12	12	12	12	6	6
h1 - Mast lowered height	in	76.2	80.2	84.1	90	93.9	107.7	117.6
h2 - Mast free lift	in	47.6	51.5	55.4	61.3	65.3	79.1	88.9
h3 - Mast lifting height	in	133.9	145.7	157.5	169.3	185	216.5	236.2
h4 - Mast extended height	in	164.7	176.5	188.3	200.2	215.9	247.4	267.1
Residual capacity at max height	lb	7716						
Height at max capacity	in	133.9	98.4	98.4	98.4	98.4	98.4	98.4

Full Visibility Triplex (FVT)		FVT 33
Mast/fork carriage tilt, forward	°	10
Mast/fork carriage tilt, backward	°	12
h1 - Mast lowered height	in	71.9
h2 - Mast free lift	in	3.2
h3 - Mast lifting height	in	129.9
h4 - Mast extended height	in	158.5
Height at max capacity	in	98.4



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