Technical sheet:

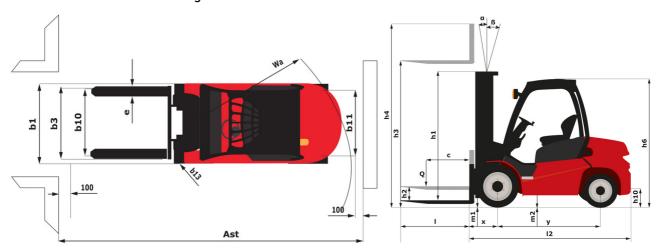
## **MI 50 D US**





		MISCOC	ated on May 14, 2024 at 7:49:38 PM
	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MI 50 D US
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	11023 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	22 in
1.9	Wheelbase	y	85 in
	Weight	, in the second	55
	Standard mast reference of the machine		FVD 30
2.1	Service weight		14991 lb
2.2	Weight on front axle (laden) / rear axle (laden)		23038 lb / 2976 lb
2.3			6614 lb / 8378 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		0014 ID 7 6376 ID
2.1	Wheels		Draumatia
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		300-15-18PR
3.3	Dimensions of rear wheels		7.00-12-12PR
3.5	Number of front wheels / rear wheels		2/2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	47 in
3.7	Rear wheel gauge	b11	44 in
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	94 in
4.8	Seat height/stand height	h7	54 in
4.12	Height of towing bar (coupling height)	h10	18 in
4.19	Overall length	l1	176 in
4.20	Length to face of forks	I2	128 in
4.21	Overall width	b1	59 in
4.21	Overall width - Single wheels	b1	59 in
4.22	Forks section / width / length	s / e / l	2 in x 6 in x 48 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	49 in
4.31	Ground clearance below mast	m1	7 in
4.32	Ground clearance at centre of wheelbase	m2	9 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	189 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	194 in
4.35	Turning radius	Wa	115 in
4.36	Internal turning radius (over tyres)	b13	5 in
	Performances		
5.1	Travel speed (laden / unladen)		14 mph-15 mph
5.2	Lifting speed (laden / unladen)		1 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s-2 ft/s
5.5	Drawbar pull (Laden / Unladen)		4000 daN / 2100 daN
5.7	Gradeability (laden / unladen)		31 % / 34 %
5.10	Service brake		Hydraulic
	Engine		,
7.1	Engine brand / model / norm		Cummins / QSF2.8T4F / Tier 4 final
7.1	Engine power according to ISO 1585		55 kW
7.3	Rated speed		2600 rpm
7.3	Number of cylinders / Capacity of cylinders		4 - 171 in³
7.4	Miscellaneous		4 - 1/1 III*
0.2			2221 DO
8.2	Working hydraulic pressure for attachments		2321 PSI
8.3	Oil flow rate for attachments		24 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB

## MI 50 D US - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
Mast/fork carriage tilt, forward	۰	6	6	6	6	6	6	6
Mast/fork carriage tilt, backward	۰	12	12	12	12	12	12	12
h1 - Mast lowered height	in	88.4	94.3	98.2	102.2	110	120.9	131.7
h2 - Mast free lift	in	6.3	6.3	6.3	6.3	6.3	6.3	6.3
h3 - Mast lifting height	in	118.1	129.9	137.8	145.7	157.5	177.2	196.9
h4 - Mast extended height	in	171.9	183.7	191.5	199.4	211.2	230.9	250.6
Residual capacity at max height	lb	11023	11023	11023	11023	11023	10362	9039
Residual capacity with integrated side shift at max heigth	lb	11023	11023	11023	11023	11023	10141	8818
Height at max capacity	in	118.1	129.9	137.8	145.7	157.5	157.5	157.5
Height at max capacity with integrated sideshift	in	118.1	129.9	137.8	145.7	157.5	157.5	157.5

Free Lift Duplex (FLD)		FLD 30	FLD 33	FLD 35	FLD 37
Mast/fork carriage tilt, forward	۰	6	6	6	6
Mast/fork carriage tilt, backward	۰	12	12	12	12
h1 - Mast lowered height	in	87.6	93.5	97.5	101.4
h2 - Mast free lift	in	53.7	59.6	63.5	67.5
h3 - Mast lifting height	in	118.1	129.9	137.8	145.7
h4 - Mast extended height	in	171.9	183.7	191.5	199.4
Residual capacity at max height	lb	11023	11023	11023	11023
Residual capacity with integrated side shift at max heigth	lb	11023	11023	11023	11023
Height at max capacity	in	118.1	129.9	137.8	145.7
Height at max capacity with integrated sideshift	in	118.1	129.9	137.8	145.7

Free Lift Triplex (FLT)		FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
Mast/fork carriage tilt, forward	۰	6	6	6	6	6	3	3
Mast/fork carriage tilt, backward	۰	12	6	6	6	6	6	6
h1 - Mast lowered height	in	81.9	85.8	88.5	90.9	94.9	101.4	109.8
h2 - Mast free lift	in	48.1	52	54.7	57.2	61.1	67.6	76.1
h3 - Mast lifting height	in	157.5	169.3	177.2	185	196.9	216.5	236.2
h4 - Mast extended height	in	211.2	223	231.5	239	250.8	270.5	290.6
Residual capacity at max height	lb	10692	10362	10141	9480	8598	7496	5952
Residual capacity with integrated side shift at max heigth	lb	10472	10141	9921	9259	8378	7275	5732
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4





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