Technical sheet :





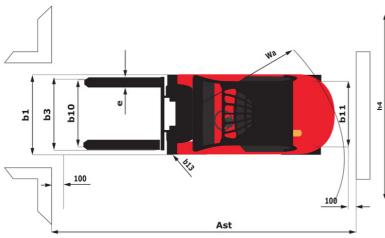


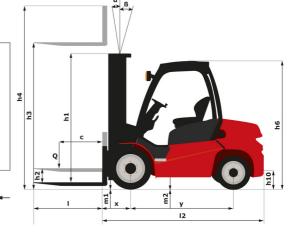
Technical characteristics	
1.1 Manufacturer	
1.2 Model Name	
1.3 Power source	
1.4 Operator type	
1.5 Max. capacity	Q
1.6 Load center of gravity	С
1.8 Load distance, centre of drive axle to fork	x
1.9 Wheelbase	у
Standard mast reference of the machine	
Weight	
2.1 Service weight	
2.2 Weight on front axle (laden) / rear axle (laden)	
2.3 Weight on front axle (Unladen) / rear axle (Unladen)	
Wheels	
3.1 Tires type	
3.2 Dimensions of front wheels	
3.3 Dimensions of rear wheels	
3.5 Number of front wheels / rear wheels	
3.5.2 Number of drive wheels	
3.6 Front wheel gauge	b10
3.7 Rear wheel gauge	b11
Dimensions	
4.7 Height of overhead guard (cabin)	h6
4.8 Seat height/stand height	h7
4.12 Height of towing bar (coupling height)	h10
4.19 Overall length	11
4.20 Length to face of forks	12
4.21 Overall width	b1
4.21 Overall width - Single wheels	b1
4.22 Forks section / width / length	s / e / l
4.23 Fork carriage ISO 2328 (class/form) A/B	
4.24 Fork carriage width	b3
4.31 Ground clearance below mast	m1
4.32 Ground clearance at centre of wheelbase	m2
4.33 Aisle Width for pallets 1000 x 1200 crossways	Ast
4.34 Aisle width for 800 x 1200 pallet lengthways	Ast
4.35 Turning radius	Wa
4.36 Internal turning radius (over tyres)	b13
Performances	
5.1 Travel speed (laden / unladen)	
5.2 Lifting speed (laden / unladen)	
5.3 Lowering speed (laden / unladen)	
5.5 Drawbar pull (Laden / Unladen)	
5.7 Gradeability (laden / unladen)	
5.10 Service brake	
Transmission type	
Engine	
7.1 Engine brand / model	
7.2 I.C. Engine power rating	
7.3 Rated speed	
7.4 Number of cylinders / Capacity of cylinders	
Miscellaneous	
8.2 Working hydraulic pressure for attachments	
8.3 Oil flow rate for attachments	
8.4 Measured/guaranteed mean noise level at the ear of the operator	
8.4 Sound level at the driver's ear according to DIN 12 053	

## мі Бо D Created on May 13, 2025 at 7:25 AM UTC

Imperial Manitou MI 50 D Diesel Seated 111023 Ib 20 in 22 in 85 in	
MI 50 D Diesel Seated 11023 Ib 20 in 22 in	
Diesel Seated 11023 lb 20 in 22 in	
Seated 11023 lb 20 in 22 in	
11023 lb 20 in 22 in	
20 in 22 in	
22 in	
FVD 30	
11000	
14991 lb	
23038 lb / 2976 lb	
6614 lb / 8378 lb	
Pneumatic	
300-15-18PR	
7.00-12-12PR	
2/2	
2	
47 in	
47 in 44 in	
94 in	
54 in	
18 in	
176 in	
128 in	
59 in	
59 in	
/ 1 2 in x 6 in x 48 in	
3A	
49 in	
7 in	
9 in	
189 in	
194 in 115 in	
5 in	
14 mph-15 mph	
1 ft/s-1 ft/s	
2 ft/s-2 ft/s	
4000 daN / 2100 daN	
31 % / 34 %	
Hydraulic	
Torque converter	
Cummins / QSF2.8T4F	
55 kW	
2600 rpm	
4 - 171 in <sup>3</sup>	
4 - 17 I III	
2221 PSI	
2321 PSI	
24 US gpm	

## MI 50 D - 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
α - Mast/fork carriage tilt, forward	۰	6	6	6	6	6	6	6
β - Mast/fork carriage tilt, backward	٥	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
α - Mast/fork carriage tilt, forward	۰	6	6	6	6
β - Mast/fork carriage tilt, backward	٥	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
α - Mast/fork carriage tilt, forward	۰	6	6	6	6	6	3	3
$\beta$ - Mast/fork carriage tilt, backward	۰	12	6	6	б	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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