Technical sheet:

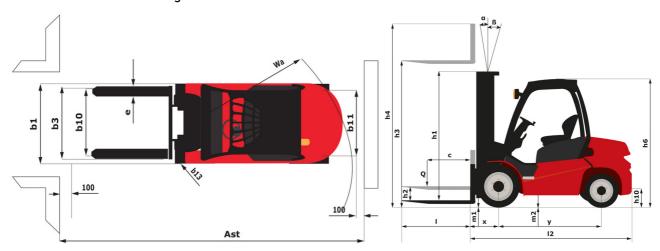
## MI 20 D





		MI 20 D Orcato	eu on April 17, 2024 at 0.33.26 AW of
	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MI 20 D
1.3	Power source		Diesel
1.4	Operator type		Sitting
1.5	Max. capacity	Q	4409 lb
1.6	Load center of gravity	С	20 in
1.8	Load distance, centre of drive axle to fork	x	18 in
1.9	Wheelbase	у	63 in
	Weight		
2.1	Service weight		8212 lb
2.2	Weight on front axle (laden) / rear axle (laden)		11034 lb / 1587 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3891 lb / 4321 lb
	Wheels		
3.1	Tires type		PPS
3.2	Dimensions of front wheels		7.00-12 12
3.3	Dimensions of rear wheels		6.00-9 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	38 in
3.7	Rear wheel gauge	b11	38 in
3.7	Dimensions	DII	30 III
4.7	Height of overhead guard (cabin)	h6	83 in
4.8	Seat height/stand height	h7	47 in
4.12		h10	47 III 14 in
	Height of towing bar (coupling height)		
4.19	Overall length	l1	142 in 97 in
4.20 4.21	Length to face of forks	l2	
	Overall width	b1 b1	45 in 45 in
4.21 4.22	Overall width - Single wheels		
	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	h0	2A
4.24	Fork carriage width	b3	41 in
4.31	Ground clearance below mast	m1	5 in
4.32	Ground clearance at centre of wheelbase	m2	7 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	152 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	160 in
4.35	Tuming radius	Wa	87 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)		2 ft/s-2 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s-2 ft/s
5.5	Drawbar pull (Laden / Unladen)		1690 daN / 1230 daN
5.7	Gradeability (laden / unladen)		20 % / 20 %
5.10	Service brake		Hydraulic
	Engine		
6.4	Battery voltage		0 V
7.1	Engine brand / model		Yanmar / 4TNV94L-BXPHZ
7.2	Engine power according to ISO 1585		35 kW
7.3	Rated speed		2400 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 186 in³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		2321 PSI
8.3	Oil flow rate for attachments		18 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 84 dB
8.4	Sound level at the driver's ear according to DIN 12 053		84 dB

## MI 20 D - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 33	FVD 37	FVD 40
Mast/fork carriage tilt, forward	۰	6	6	6
Mast/fork carriage tilt, backward	۰	12	12	12
h1 - Mast lowered height	in	86	95.9	103.7
h2 - Mast free lift	in	5.5	5.5	5.5
h3 - Mast lifting height	in	129.9	145.7	157.5
h4 - Mast extended height	in	155.9	171.7	183.5
Residual capacity at max height	lb	4409	4409	4409
Residual capacity with integrated side shift at max heigth	lb	4409	4409	4409
Height at max capacity	in	145.7	157.5	129.9
Height at max capacity with integrated sideshift	in	145.7	157.5	129.9

Free Lift Duplex (FLD)		FLD 33	FLD 37	FLD 40
Mast/fork carriage tilt, forward	٠	6	6	6
Mast/fork carriage tilt, backward	۰	12	12	12
h1 - Mast lowered height	in	85	92.9	100.8
h2 - Mast free lift	in	58.3	66.1	74
h3 - Mast lifting height	in	129.9	145.7	157.5
h4 - Mast extended height	in	156.7	170.5	184.3
Residual capacity at max height	lb	4409	4409	4409
Residual capacity with integrated side shift at max heigth	lb	4409	4409	4409
Height at max capacity	in	129.9	157.5	98.4
Height at max capacity with integrated sideshift	in	129.9	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	۰	6	6	6	6	6	6	6	6
h1 - Mast lowered height	in	82.7	84.6	86.6	88.6	90.6	98.4	108.3	114.2
h2 - Mast free lift	in	55.1	57.9	59.8	61.8	63.8	71.7	81.5	86.6
h3 - Mast lifting height	in	169.3	177.2	185	189	196.9	216.5	236.2	255.9
h4 - Mast extended height	in	196.9	205.9	211.8	215.7	223.6	243.3	265	283.5
Residual capacity at max height	lb	4079	3968	3858	3858	3748	2866	1984	1764
Residual capacity with integrated side shift at max heigth	lb	3858	3748	3638	3638	3527	2646	1764	1543
Height at max capacity	in	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4





## **Head Office**

B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



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