

Technical sheet :

# **M 30-2 D ST5**

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Technical characteristics		Metric	
1.1	Manufacturer		MANITOU
1.2	Model Name		M 30-2 D ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	3000 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	747 mm
1.9	Wheelbase	y	1995 mm
Weight			
	Standard mast reference of the machine		FVD 37
2.1	Service weight		5895 kg
2.2	Weight on front axle (laden) / rear axle (laden)		7490 kg / 1405 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2155 kg / 3740 kg
Wheels			
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		14,5R20 18PR MPT80
3.3	Dimensions of rear wheels		10R17,5 G291 GY
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1550 mm
3.7	Rear wheel gauge	b11	1644 mm
Dimensions			
4.7	Height of overhead guard (cabin)	h6	2450 mm
4.8	Seat height/stand height	h7	1420 mm
4.19	Overall length	l1	4701 mm
4.20	Length to face of forks	l2	3501 mm
4.21	Overall width	b1	1923 mm
4.22	Forks section x width x length	s / e / l	40 mm x 125 mm / 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	1470 mm
4.31	Ground clearance below mast	m1	406 mm
4.32	Ground clearance at centre of wheelbase	m2	390 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	5360 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	5360 mm
4.35	Turning radius	Wa	3220 mm
Performances			
5.1	Travel speed (laden / unladen)		22 km/h / 22 km/h
5.2	Lifting speed (laden / unladen)		0.60 m/s / 0.60 m/s
5.3	Lowering speed (laden / unladen)		0.40 m/s / 0.40 m/s
5.5	Drawbar pull (Laden)		5600 daN
5.7	Gradeability (laden)		62 %
5.10	Service brake		Hydraulic
	Transmission type		Torque converter
Engine			
7.1	Engine brand / model / norm		Deutz / TCD 2,9 / Stage V
7.2	I.C. Engine power rating		55 kW
7.3	Rated speed		2300 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2925 cm³
Miscellaneous			
8.2	Working hydraulic pressure for attachments		185 bar
8.3	Oil flow rate for attachments		97 l/min
8.4	Sound level at the driver's ear according to DIN 12 053		78 dB

### M 30-2 D ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	FVD 37	FVD 45
$\alpha$ - Mast/fork carriage tilt, forward	6	6
$\beta$ - Mast/fork carriage tilt, backward	12	12
h1 - Mast lowered height	2696	3136
h3 - Mast lifting height	3700	4500
h4 - Mast extended height	4626	4626
Residual capacity at max height	3000	3000
Residual capacity with hooked-on side shift at max height	3000	2600
Height at max capacity	3700	4500
Height at max capacity with hooked-on sideshift	3700	4100

Free Lift Triplex (FLT)	FLT 43	FLT 50	FLT 65
$\alpha$ - Mast/fork carriage tilt, forward	6	6	6
$\beta$ - Mast/fork carriage tilt, backward	12	12	12
h1 - Mast lowered height	2436	2696	3386
h2 - Mast free lift	1580	1840	2530
h3 - Mast lifting height	4300	5000	6500
h4 - Mast extended height	4626	4626	4626
Residual capacity at max height	2750	1600	
Residual capacity with hooked-on side shift at max height	2750	1600	
Height at max capacity	4000	4000	2500
Height at max capacity with hooked-on sideshift	4000	4000	

Full Visibility Triplex (FVT)	FVT 55	FVT 70
$\alpha$ - Mast/fork carriage tilt, forward	6	6
$\beta$ - Mast/fork carriage tilt, backward	10	10
h1 - Mast lowered height	2966	3636
h3 - Mast lifting height	5500	7000
h4 - Mast extended height	4626	4626
Residual capacity at max height	1600	
Residual capacity with hooked-on side shift at max height	1600	
Height at max capacity	4300	
Height at max capacity with hooked-on sideshift	4000	



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