

Technical sheet :

# MI 45 D ST5

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 **MANITOU**  
HANDLING YOUR WORLD

Technical characteristics			Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		MI 45 D ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	4500 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	550 mm
1.9	Wheelbase	y	2000 mm
Weight			
2.1	Service weight		6630 kg
2.2	Weight on front axle (laden) / rear axle (laden)		9850 kg / 1280 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3000 kg / 3630 kg
Wheels			
3.1	Tires type		Super Elastic
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	1190 mm
3.7	Rear wheel gauge	b11	1130 mm
Dimensions			
4.7	Height of overhead guard (cabin)	h6	2390 mm
4.8	Seat height/stand height	h7	1370 mm
4.12	Height of towing bar (coupling height)	h10	445 mm
4.19	Overall length	l1	4315 mm
4.20	Length to face of forks	l2	3095 mm
4.21	Overall width	b1	1490 mm
4.21	Overall width - Single wheels	b1	1490 mm
4.21	Overall width - Twinned wheels	b1	1940 mm
4.22	Forks section / width / length	s / e / l	50 mm x 150 mm x 1220 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	1250 mm
4.31	Ground clearance below mast	m1	170 mm
4.32	Ground clearance at centre of wheelbase	m2	230 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4550 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4350 mm
4.35	Turning radius	Wa	2800 mm
4.36	Internal turning radius (over tyres)	b13	100 mm
Performances			
5.1	Travel speed (laden / unladen)		13 km/h-23 km/h
5.2	Lifting speed (laden / unladen)		0.49 m/s-0.52 m/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.50 m/s
5.5	Drawbar pull (Laden / Unladen)		3800 daN / 2000 daN
5.7	Gradeability (laden / unladen)		20 % / 20 %
5.10	Service brake		Hydraulic
Engine			
7.1	Engine brand / model / nom		Deutz / TCD2.9L4 / Stage V
7.2	I.C. Engine power rating		55.40 kW
7.3	Rated speed		2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2920 cm³
Miscellaneous			
8.2	Working hydraulic pressure for attachments		190 bar
8.3	Oil flow rate for attachments		90 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 89 dB

### MI 45 D ST5 - Dimensional drawing







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