Technical sheet :

M 50-4 D ST5



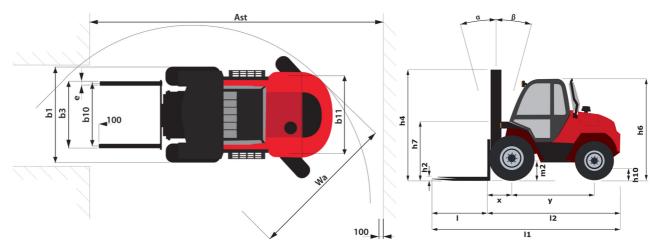


| 1 50-4 D S T 5 | Created on September | 15, | 2025 at | 10:08 | PM UTC |
|----------------|----------------------|-----|---------|-------|--------|
|----------------|----------------------|-----|---------|-------|--------|

| | Technical characteristics | |
|-------|--|-------|
| 1.1 | Manufacturer | |
| 1.2 | Model Name | |
| 1.3 | Power source | |
| 1.4 | Operator type | |
| 1.5 | Max. capacity | C |
| 1.6 | Load center of gravity | C |
| 1.8 | Load distance, centre of drive axle to fork | x |
| 1.9 | Wheelbase |) |
| | Weight | |
| | Standard mast reference of the machine | |
| 2.1 | Service weight | |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | |
| 2.0 | 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 | b1 |
| 3.7 | Rear wheel gauge | b1 |
| 0.7 | Dimensions | |
| 4.7 | Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version) | h6 / |
| 4.8 | Seat height/stand height | h |
| 4.19 | Overall length | ľ |
| 4.20 | Length to face of forks | 12 |
| 4.21 | Overall width | b |
| 4.22 | Forks section x width x length | s / e |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | |
| 4.24 | Fork carriage width | b |
| 4.31 | Ground clearance below mast | m |
| 4.32 | Ground clearance at centre of wheelbase | m |
| 4.33 | Aisle width for 1000 x 1200 pallet widthways | A |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | A |
| 4.35 | Turning radius | W |
| | Performances | |
| 5.1 | Travel speed (laden / unladen) | |
| 5.2 | Lifting speed (laden / unladen) | |
| 5.3 | Lowering speed (laden / unladen) | |
| 5.5 | Drawbar pull (Laden) | |
| 5.10 | Service brake | |
| | Transmission type | |
| | Engine | |
| 7.1 | Engine brand / model / norm | |
| 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 | Sound level at the driver's ear according to DIN 12 053 | |

| | Metric |
|-------|----------------------------------|
| | MANITOU |
| | M 50-4 D ST5 |
| | Diesel |
| | Seated |
| Q | 5000 kg |
| с | 600 mm |
| x | 773 mm |
| у | 2120 mm |
| , | |
| | FVD 37 |
| | 8325 kg |
| | 11520 kg / 1805 kg |
| | 3285 kg / 5040 kg |
| | 3203 kg / 3040 kg |
| | Pneumatic |
| | 18-22,5 MPT-06 |
| | 340/80 R18 XMCL |
| | 2 / 2 |
| | 4 |
| .10 | |
| 10 | 1620 mm |
| 011 | 1740 mm |
| / h6* | 2486 mm / 2486 mm |
| h7 | 1455 mm |
| 11 | 4948 mm |
| 12 | 3748 mm |
| b1 | 2080 mm |
| e/l | 60 mm x 150 mm / 1200 mm |
| e/1 | 4A |
| b3 | 4A 1670 mm |
| | |
| m1 | 300 mm |
| n2 | 426 mm |
| Ast | 6812 mm |
| Ast | 6812 mm |
| Va | 4640 mm |
| | 10 km/h / 22 km/h |
| | 0.40 m/s / 0.40 m/s |
| | |
| | 0.50 m/s / 0.40 m/s 11000 daN |
| | |
| | Hydraulic |
| | Torque converter |
| | Deutz / TCD 2,9 / Stage V |
| | 55 kW |
| | |
| | 2300 rpm |
| | 4 - 2925 cm³ |
| | 000 h |
| | 230 bar |
| | 97 l/min |
| | 78 dB |
| | |

M 50-4 D ST5 - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | | FVD 33 | FVD 35 | FVD 37 | FVD 40 | FVD 45 | FVD 50 |
|---|----|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ۰ | 15 | 15 | 15 | 15 | 15 | 10 |
| β - Mast/fork carriage tilt, backward | ۰ | 15 | 15 | 15 | 15 | 15 | 15 |
| h1 - Mast lowered height | mm | 2670 | 2770 | 2870 | 3020 | 3270 | 3520 |
| h3 - Mast lifting height | mm | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 |
| Residual capacity at max height | kg | 5000 | 5000 | 5000 | 5000 | 3600 | 2200 |
| Residual capacity with hooked-on side shift at max heigth | kg | 4700 | 4700 | 4700 | 4000 | 4000 | 3800 |
| Height at max capacity | mm | 3300 | 3500 | 3700 | 4000 | 4000 | 4000 |
| Height at max capacity with hooked-on sideshift | mm | 3300 | 3500 | 3700 | 4000 | 4000 | 4000 |

| Free Lift Triplex (FLT) | | FLT 43 | FLT 45 | FLT 47 | FLT 50 | FLT 55 | FLT 60 |
|---|----|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ۰ | 15 | 15 | 15 | 10 | 10 | 10 |
| β - Mast/fork carriage tilt, backward | ۰ | 15 | 15 | 15 | 15 | 15 | 15 |
| h1 - Mast lowered height | mm | 2470 | 2545 | 2605 | 2720 | 2870 | 3045 |
| h2 - Mast free lift | mm | 1455 | 1530 | 1590 | 1705 | 1855 | 2030 |
| h3 - Mast lifting height | mm | 4300 | 4500 | 4700 | 5000 | 5500 | 6000 |
| Residual capacity at max height | kg | 4500 | 4350 | 3500 | 2800 | 1800 | 900 |
| Residual capacity with hooked-on side shift at max heigth | kg | | 4100 | 3600 | 2100 | 2000 | 900 |
| Height at max capacity | mm | 3800 | 4000 | 4000 | 4000 | 4000 | 4000 |
| Height at max capacity with hooked-on sideshift | mm | | 4000 | 4000 | 4000 | 4000 | 4000 |

Equipment

| Standard | |
|------------------------------------|--|
| Battery cut-off | |
| Easy link | |
| Front and rear road lighting | |
| Front tires - Rough terrain profil | |
| Hydraulic kit 3rd element | |
| Open cab | |
| Oscillating rear axle | |
| PVC mechanical suspension seat | |
| Rear tires - Rough terrain profil | |
| Windshield wiper (front and rear) | |

| Optional | |
|------------------------------------|--|
| Audio warning on reverse movements | |
| Enclosed Cab with Heat and A/C | |
| Hydraulic kit 4th element | |
| LED Rotative Beacon | |
| Load backrest | |
| Pneumatic seat | |
| Sideshift carriage | |



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



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes