

Technical sheet :

MC 18-4 ST5



| Technical characteristics | | Metric | |
|---------------------------|--|-----------|--------------------------------------|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | MC 18-4 ST5 |
| 1.3 | Power source | | Diesel |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 1800 kg |
| 1.6 | Load center of gravity | c | 500 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 616 mm |
| 1.9 | Wheelbase | y | 1900 mm |
| Weight | | | |
| | Standard mast reference of the machine | | FVD 33 |
| 2.1 | Service weight | | 3590 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 4670 kg / 720 kg |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 1660 kg / 1930 kg |
| Wheels | | | |
| 3.1 | Tires type | | Pneumatic |
| 3.2 | Dimensions of front wheels | | 12,5/80-18/12 SL R4 |
| 3.3 | Dimensions of rear wheels | | 27x10-12 SKS |
| 3.5 | Number of front wheels / rear wheels | | 2 / 2 |
| 3.5.2 | Number of drive wheels | | 4 |
| 3.6 | Front wheel gauge | b10 | 1159 mm |
| 3.7 | Rear wheel gauge | b11 | 1176 mm |
| Dimensions | | | |
| 4.7 | Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version) | h6 / h6* | 2155 mm / 1990 mm |
| 4.8 | Seat height/stand height | h7 | 1094 mm |
| 4.19 | Overall length | l1 | 4100 mm |
| 4.20 | Length to face of forks | l2 | 2950 mm |
| 4.21 | Overall width | b1 | 1450 mm |
| 4.22 | Forks section x width x length | s / e / l | 35 mm x 100 mm / 1150 mm |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2A |
| 4.24 | Fork carriage width | b3 | 1260 mm |
| 4.31 | Ground clearance below mast | m1 | 300 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 310 mm |
| 4.35 | Turning radius | Wa | 3370 mm |
| Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 12 km/h / 23.50 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.44 m/s / 0.44 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.40 m/s / 0.40 m/s |
| 5.5 | Drawbar pull (Laden) | | 1800 daN |
| 5.7 | Gradeability (laden) | | 35 % |
| 5.10 | Service brake | | Hydraulic brakes by loss of pressure |
| | Transmission type | | Hydrostatic |
| Engine | | | |
| 7.1 | Engine brand / model / norm | | Kubota / D1803 CR E5B / Stage V |
| 7.2 | I.C. Engine power rating | | 27 kW |
| 7.3 | Rated speed | | 2700 rpm |
| 7.4 | Number of cylinders / Capacity of cylinders | | 3 - 1826 cm³ |
| Miscellaneous | | | |
| 8.1 | Type of drive control | | Electronic |
| 8.2 | Working hydraulic pressure for attachments | | 160 bar |
| 8.3 | Oil flow rate for attachments | | 31 l/min |

MC 18-4 ST5 - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | FVD 33 | FVD 37 | FVD 40 | FVD 45 |
|---|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | 12 | 12 | 12 | 12 |
| β - Mast/fork carriage tilt, backward | 10 | 10 | 10 | 10 |
| h1 - Mast lowered height | 2348 | 2608 | 2798 | 3048 |
| h2 - Mast free lift | 85 | 85 | 85 | 85 |
| h3 - Mast lifting height | 3300 | 3700 | 4000 | 4500 |
| h4 - Mast extended height | 4018 | 4428 | 4768 | 5268 |
| Residual capacity at max height | 1800 | 1800 | | 1100 |
| Residual capacity with hooked-on side shift at max height | 1800 | 1800 | | 1100 |
| Height at max capacity | 3300 | 3700 | 2500 | 3600 |
| Height at max capacity with hooked-on sideshift | 3300 | 3700 | | 3600 |

| Free Lift Triplex (FLT) | FLT 37 | FLT 43 | FLT 47 | FLT 55 |
|---|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | 12 | 12 | 12 | 6 |
| β - Mast/fork carriage tilt, backward | 10 | 10 | 10 | 6 |
| h1 - Mast lowered height | 1998 | 2198 | 2348 | 2608 |
| h2 - Mast free lift | 1305 | 1505 | 1655 | 1915 |
| h3 - Mast lifting height | 3700 | 4300 | 4700 | 5500 |
| h4 - Mast extended height | 4453 | 5053 | 5453 | 6253 |
| Residual capacity at max height | 1600 | 1000 | 600 | |
| Residual capacity with hooked-on side shift at max height | 1550 | 1000 | 600 | |
| Height at max capacity | 3400 | 3400 | 3400 | 2500 |
| Height at max capacity with hooked-on sideshift | 3300 | 3400 | 3400 | |

| Full Visibility Triplex (FVT) | FVT 33 |
|---|--------|
| α - Mast/fork carriage tilt, forward | 12 |
| β - Mast/fork carriage tilt, backward | 10 |
| h1 - Mast lowered height | 1888 |
| h2 - Mast free lift | 135 |
| h3 - Mast lifting height | 3300 |
| h4 - Mast extended height | 4048 |
| Residual capacity at max height | 1800 |
| Residual capacity with hooked-on side shift at max height | 1800 |
| Height at max capacity | 3300 |
| Height at max capacity with hooked-on sideshift | 3300 |



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