

Technical sheet :

# **MLT 850-145 V+**

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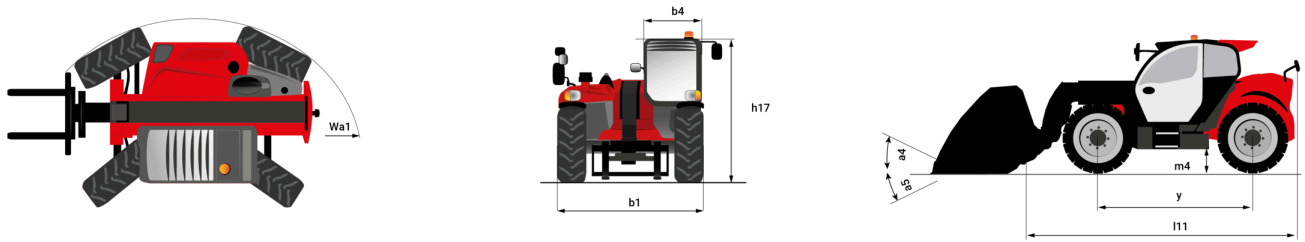
 **MANITOU**  
HANDLING YOUR WORLD

| Capacities                                                        |     | Metric                                                 |
|-------------------------------------------------------------------|-----|--------------------------------------------------------|
| Max. capacity                                                     | Q   | 4998.58 kg                                             |
| Max. lifting height                                               |     | 7.55 m                                                 |
| Max. outreach                                                     |     | 4.60 m                                                 |
| Reach at max. height                                              |     | 0.90 m                                                 |
| Breakout force with bucket                                        |     | 8670 daN                                               |
| Weight and dimensions                                             |     |                                                        |
| Unladen weight (with forks)                                       |     | 10780 kg                                               |
| Ground clearance                                                  | m4  | 0.45 m                                                 |
| Wheelbase                                                         | y   | 2.94 m                                                 |
| Overall length to carriage (with hitch)                           | l11 | 5.57 m                                                 |
| Overall length to carriage (without hitch)                        | l3  | 5.54 m                                                 |
| Front overhang                                                    |     | 1.55 m                                                 |
| Overall width                                                     | b1  | 2.49 m                                                 |
| Overall cab width                                                 | b4  | 0.99 m                                                 |
| Overall height                                                    | h17 | 2.58 m                                                 |
| Tilt-down angle                                                   | a5  | 132 °                                                  |
| Tilt-up angle                                                     | a4  | 12 °                                                   |
| External turning radius (over tyres)                              | Wa1 | 4.04 m                                                 |
| Standard tires                                                    |     | Alliance - A580 - 500/70 R24 164A8                     |
| Drive wheels (front / rear)                                       |     | 2 / 2                                                  |
| Steering mode                                                     |     | Manicrab, 2 wheel steer, 4 wheel steer, Crab mode      |
| Performances                                                      |     |                                                        |
| Lifting                                                           |     | 6.60 s                                                 |
| Lowering                                                          |     | 4.90 s                                                 |
| Extension                                                         |     | 6.30 s                                                 |
| Retraction                                                        |     | 5.70 s                                                 |
| Crowd                                                             |     | 4.20 s                                                 |
| Dump                                                              |     | 3.10 s                                                 |
| Engine                                                            |     |                                                        |
| Engine brand                                                      |     | Yanmar                                                 |
| Engine norm                                                       |     | Stage V / Tier 4 Final                                 |
| Max. fuel sulphur content                                         |     | 1000 ppm                                               |
| Engine model                                                      |     | 4TN107FHT-5SMUF                                        |
| Number of cylinders - Capacity of cylinders                       |     | 4 - 4567 cm³                                           |
| Engine power (Hp / kW)                                            |     | 141 Hp / 105 kW                                        |
| Max. torque / Engine rotation                                     |     | 602 Nm @1500 rpm                                       |
| Drawbar pull (Laden)                                              |     | 9160 daN                                               |
| Reversible fan                                                    |     | Standard                                               |
| Engine cooling system                                             |     | 3 radiators water + intercooler + transmission oil     |
| Transmission                                                      |     |                                                        |
| Transmission type                                                 |     | Continuously variable transmission                     |
| Gearbox                                                           |     | M-Vario Plus                                           |
| Max. travel speed (may vary according to applicable regulations)  |     | 40 km/h                                                |
| Differential lock                                                 |     | Limited slip differential on front and rear axles      |
| Parking brake                                                     |     | Automatic negative parking brake                       |
| Service brake                                                     |     | Oil-immersed multi-discs braking on front & rear axles |
| Hydraulics                                                        |     |                                                        |
| Hydraulic pump type                                               |     | Variable displacement pump                             |
| Hydraulic flow - Pressure                                         |     | 200 l/min - 270 bar                                    |
| Flow sharing distributor                                          |     | Standard                                               |
| Tank capacities                                                   |     |                                                        |
| Hydraulic tank capacity                                           |     | 141 l                                                  |
| Fuel tank capacity                                                |     | 142 l                                                  |
| Diesel Exhaust fluid (AdBlue® type) tank capacity                 |     | 21.50 l                                                |
| Energy consumption according to EN 16796-4 standard               |     | 6.47 l/h                                               |
| Noise and vibration                                               |     |                                                        |
| Noise at driving position (LpA) tested following NF EN 12053 norm |     | 69 dB                                                  |
| Noise to environment (LWA)                                        |     | 105 dB                                                 |
| Vibration on hands/arms                                           |     | < 2.50 m/s²                                            |
| Miscellaneous                                                     |     |                                                        |
| Tractor homologation                                              |     | Tractor homologation                                   |
| Cab certification                                                 |     | Cabin ROPS - FOPS level 2                              |
| Controls                                                          |     | JSM                                                    |

## Optional tires tab

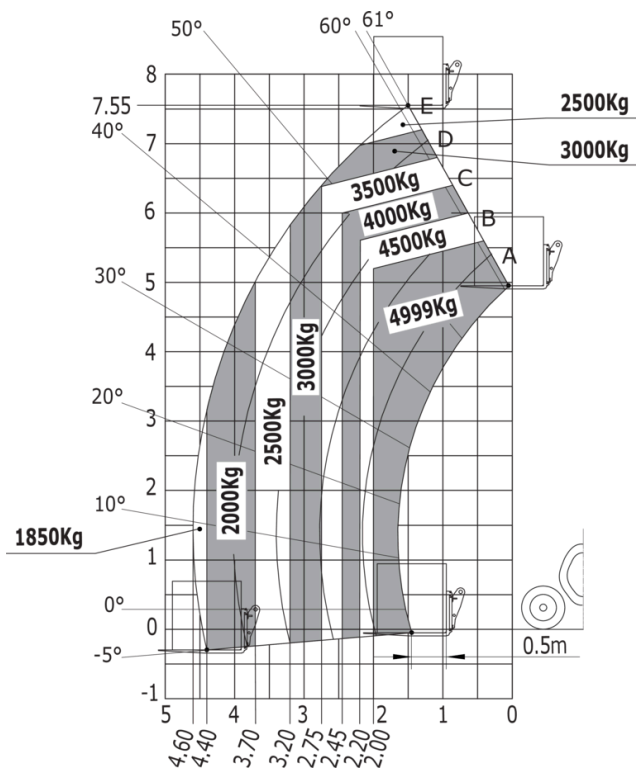
|                                          | Overall height | Overall width |
|------------------------------------------|----------------|---------------|
| ALLIANCE - A585 - 500/70 R24 164A8       | -              | -             |
| MICHELIN - BIBLOAD - 500/70 R24 164A8    | -              | -             |
| MICHELIN - XMCL - 500/70 R24 164A8       | -              | -             |
| NOKIAN - TRI STEEL - 500/70 R24 164A8    | -              | -             |
| SOLIDEAL - SOLIDAIR TLH - 14.00 R24      | -              | -             |
| TRELLEBORG - TH400 - 500/70 R24 164A8    | -              | -             |
| VREDESTEIN - ENDURION - 500/70 R24 164A8 | -              | -             |
| VREDESTEIN - TRAXION - 500/70 R24 164A8  | -              | -             |

## MLT 850-145 V+ - Dimensional drawing

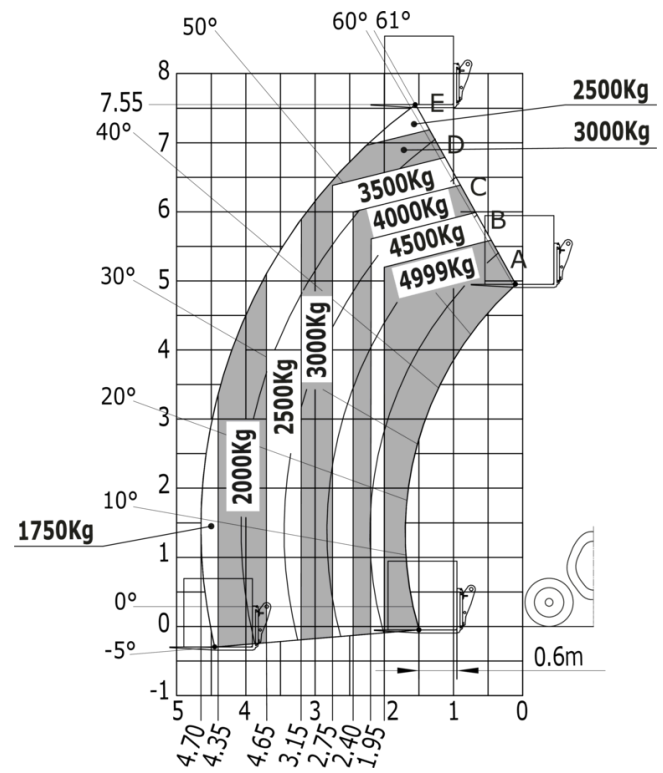


## MLT 850-145 V+ - Load chart

Machine on tires with forks Metric



Machine on tires with forks LC 600 mm Metric





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