

Technical sheet :

# **MLT 850-145 V+**

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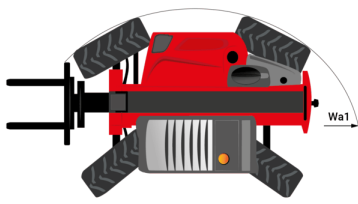
 **MANITOU**  
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| Capacities  |     | Metric   |
|---|-----|--|
| Max. capacity   | Q   | 4999 kg  |
| Max. lifting height   | h3  | 7.60 m   |
| Max. outreach   |     | 4.55 m   |
| Reach at max. height  |     | 0.90 m   |
| Breakout force with bucket  |     | 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 wheels (front / rear)                                    |     | 2 / 2  |
| 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 nom  |     | Stage V / Tier 4 Final                                 |
| Max. fuel sulphur content   |     | 1000 ppm   |
| Engine model  |     | 4TN107FHT-5SMUF  |
| Number of cylinders - Capacity of cylinders                       |     | 4 - 4567 cm³   |
| I.C. Engine power rating / Power                                  |     | 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   |     | 142 l  |
| Diesel Exhaust fluid (AdBlue® type)                               |     | 21.50 l  |
| Consumption calculated 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                                   |
| Safety cab homologation   |     | Cabin ROPS - FOPS level 2                              |
| Controls  |     | JSM  |

## Optional tires tab

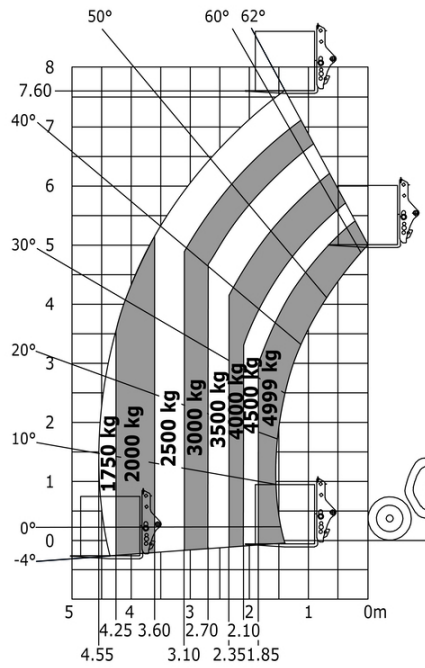
|  | Overall height | Overall width |
|--|----------------|---------------|
| ALLIANCE - A585 - 500/70 R24 164A8       | -              | -             |
| MICHELIN - BIBLOAD - 500/70 R24 164A8    | -              | -             |
| MICHELIN - XHA - 17.5 R25                | -              | -             |
| 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





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