

High capacity telehandlers

Regulatory area: AU

P120.10





Comfort: The best workplace



Exclusive comfort

An unprecedented design guarantees maximum functionality and comfort; grouping the information provided to the driver and the controls of the various systems and devices for optimal ergonomics. The reverse shuttle on the steering wheel is also present on the joystick.

Cab entry

To ensure simple and easy access to the cab, the door of Merlo telehandlers can be opened by up to 180°. In addition, the inside of the door is equipped with a large handrail to help the operator when getting inside and outside of the cab.

Air-conditioning

Developed according to automotive standards, cutting the warm-up and cool-down times in half compared to a conventional air conditioning system. The inlet vent is placed on the side of the cab, away from potential sources of dust and dirt, while inside there are 8 vents.

Efficiency: Simpler and smarter



Transmission

In order to ensure a reduction in consumption and operating costs, Merlo telescopic handlers boast full electronic management of the transmission and engine, in order to minimise RPM and, consequently, fuel demand.

Steering Modes

The axles ensure the maximum steering angle to perform manoeuvres in tight spaces. Additionally, the operator can manage the steering of the machine with three different options according to the specific needs of the job.

Visibility

Merlo's improved visibility increases range of movement and safety for operators.

Performance: Everything at your fingertips



Transmission

The Merlo telehandlers have excellent braking capacity when the accelerator pedal is released, guaranteeing high torque to the wheels during material handling and transfers, as well as millimetric precision of movements when positioning the load.

Engines

All models feature a combustion engine in an original Merlo mounting layout, developed by Merlo with the invention of the panoramic visibility models, ensuring maximum accessibility to components in case of programmed and/or extraordinary maintenance.

Axles

The exclusively designed axles are manufactured and developed in-house by Merlo, and can be equipped with differential lock to ensure traction on any terrain, regardless of how unstable.

Safety: Not just feelings



Active safety

In order to remain fully compliant with regulations in frontal tipping prevention, Merlo handlers are equipped with features developed specifically to keep the operator safe from frontal tipping, without sacrificing performance, particularly of boom speed and lifting capacity.

Aerial work platform

The Merlo telehandlers can be configured with aerial work platform. This solution, complying with EN280 standard, assures an increased level of active and passive safety during work at heights, and enhances machine versatility.






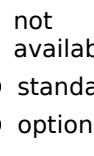
Certified cab

All Merlo telehandlers have a metal structure above the glass roof on the outside of the cab to comply fully with FOPS Level II standard, the most stringent certification level in protecting the operator from falling objects.



| | |
|----------------------------------|---|
| 1 - ASCS | The ASCS safety system: the ideal assistant! The system adjusts the speed and maximum extent of the movements based on the attachments in use, the load being handled and its position, thus eliminating the risk of overturning. Standard on the entire range with LS hydraulic system. |
| 2 - EPD ECO POWER DRIVE | Maximum savings and efficiency! The Merlo-patented EPD system electronically controls engine and transmission. It manages engine speed, hydrostatic pump flow rate, and hydrostatic drive displacement, maximising efficiency and reducing RPM, saving up to 18% in fuel consumption. |
| 3 - IMPLEMENT RECOGNITION | Every implement has its own features. Thanks to the automatic implement recognition system, the ASCS adapts load chart and safety limits to guarantee maximum performance in total safety at all times. Standard on the entire range. |
| 4 - BOOM SIDE-SHIFT | Having to reposition the machine, especially after it has already been stabilised, can be a waste of time. Thanks to the boom side-shift, you can pick up or place the load precisely, without any further manoeuvring, for maximum productivity. Standard on the Stabilised, Medium Capacity range in the TT and Panoramic High Capacity models. |



| PERFORMANCE AND FEATURES | | P120.10EE | | |
|---|--|-----------------------------|--|--|
|  | Performance | | | |
| | Unladen weight (kg) | 16100 | | |
| | Maximum load capacity (kg) | 10000 | | |
| | Lift height (m) | 9.7 | | |
| | Maximum reach (m) | 5.3 | | |
| | Lift height at max. load capacity (m) | 6.6 | | |
| | Reach at max. load capacity (m) | 1.5 | | |
| | Load capacity at max. lift height (kg) | 4000 | | |
| | Load capacity at max. reach (kg) | 2500 | | |
| | Boom side-shift (mm) | +/- 185 | | |
| | Frame levelling (%) | +/-8 | | |
|  | Boom section | 2 | | |
| | Powertrain | | | |
| | Engine | FPT NEF45 | | |
| | Range/Cylinders (l) | 4.5/4 | | |
| | Engine power (kW/HP) | 125/170 | | |
| | Anti-pollution technology | Tier 2 | | |
| | Reversible Fan | — | | |
| | Maximum speed (km/h) | 40 | | |
| | Fuel tank capacity (l) | 150 | | |
| | Hydrostatic transmission | CVTronic | | |
| | EPD | STD | | |
|  | Electronic joystick | ● | | |
| | Axles | Axial | | |
| | Reducers | Epicyclic | | |
| | Brakes | Wet disc | | |
| | Automatic parking brake | ● | | |
| | Hydraulic | | | |
| | Hydraulic pump | LS + FS | | |
| | Delivery / pressure (bar-l/min) | 158 - 230 | | |
| | Hydraulic oil tank capacity (l) | 149 | | |
| | Auxiliary hydraulic service on boom | ● | | |
| | Rear service line | ○ | | |
|  | Cab | | | |
| | Cab finishing | PREMIUM | | |
| | ASCS | Premium | | |
| | FOPS II Cab | ● | | |
| | ROPS Cab | ● | | |
| | Controls | Electronic joystick control | | |
| | Tilting cab | — | | |
| | Reverse shuttle | Dual reverse | | |
| | Configuration | | | |
| | Hydropneumatic Suspension CS Merlo | — | | |
| | Hydropneumatic Suspension BSS Merlo | — | | |
|  | Hydropneumatic Suspension EAS Merlo | — | | |
| | Work lights on cab | ● | | |
| | Sun-shade in the cab | ● | | |
| | Tac-lock | ● | | |
| | Pre-arrangement for aerial work platform | — | | |
| | Two floating forks | ● | | |
| | Pedal Inching-Control | ● | | |
| | Permanent four-wheel drive | ● | | |
| | All wheel steering | ● | | |
| | Three steering way | ● | | |
| | Standard tyres | 17.5-25" | | |
|  | OPT tyres | — | | |
| | Hydraulically controlled stabilizers | — | | |
| | Turret rotation | — | | |
| | Tractor type approval | — | | |
| | Pneumatic brakes (ton) | — | | |
| | Hydraulic brakes (ton) | — | | |
| | PTO | — | | |
| | 3-point rear linkage | — | | |

— not available
● standard
○ optional

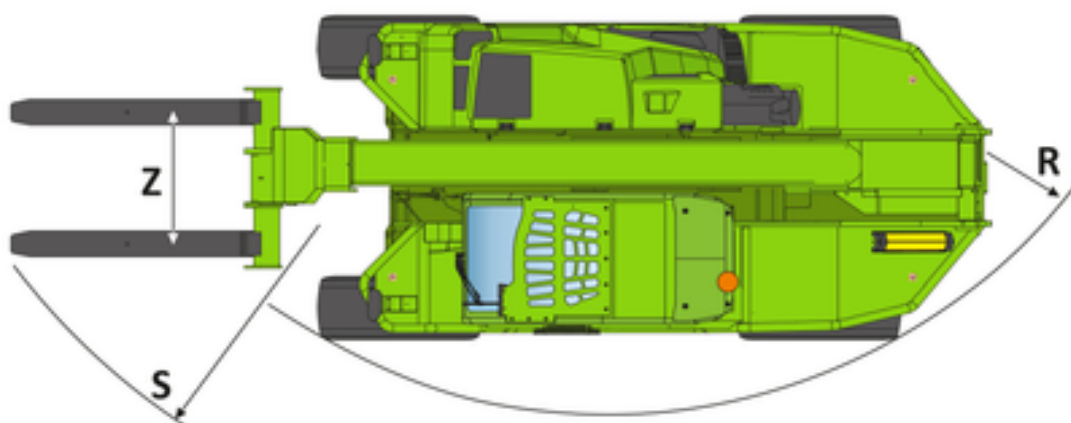
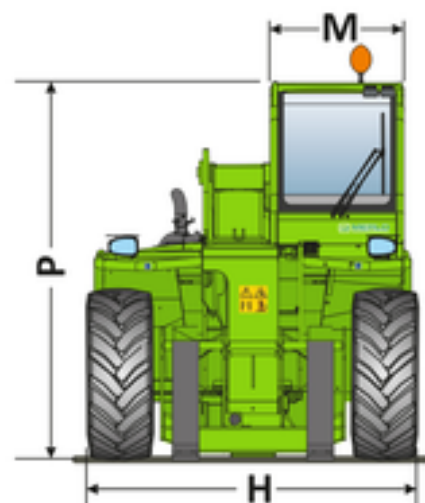
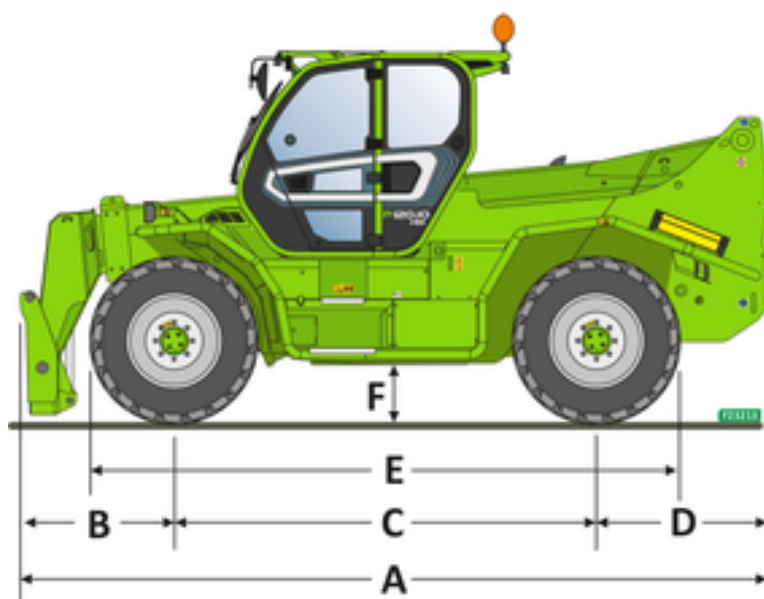
Dimensions



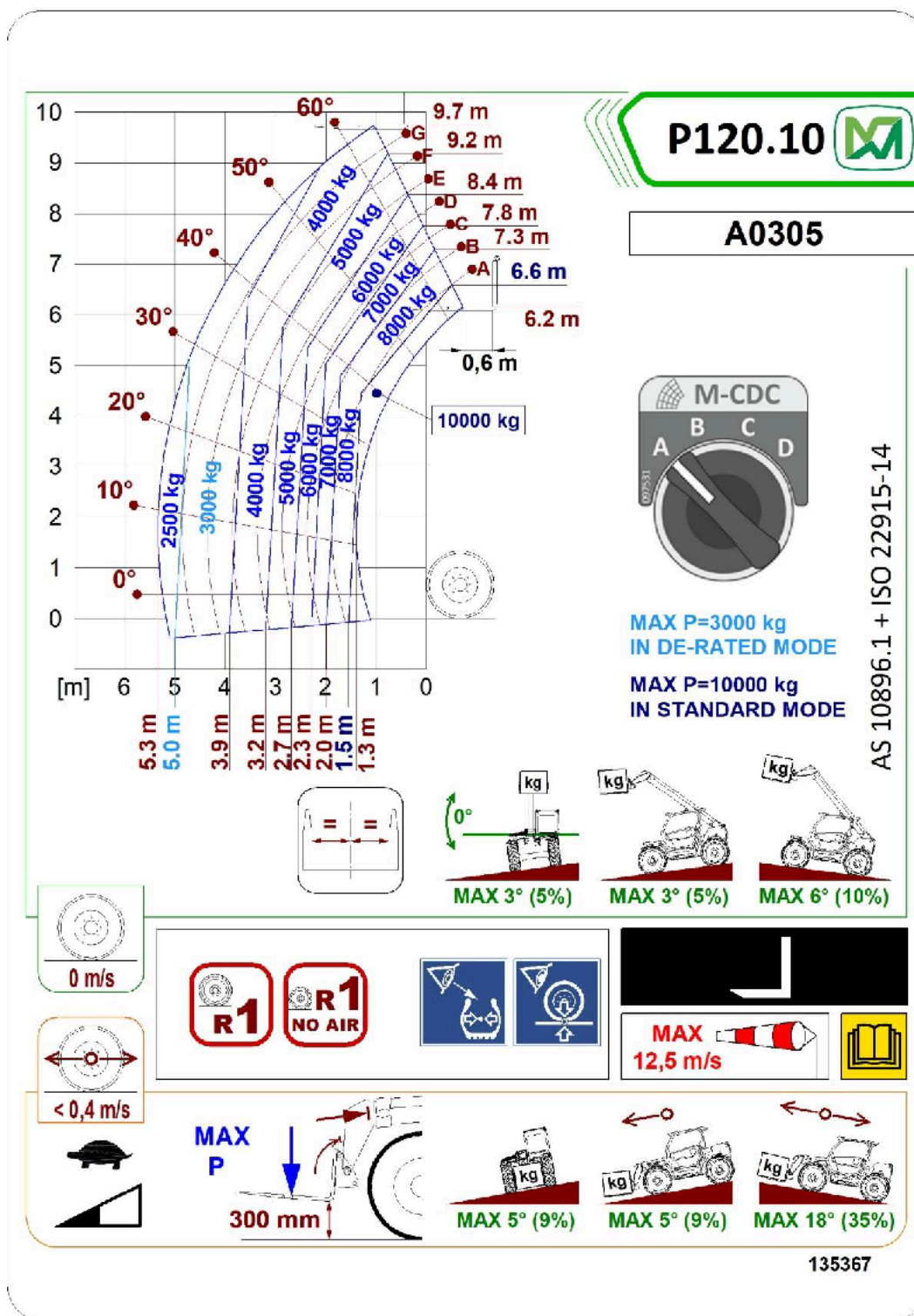
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|------------------------------|------|
| A - Length | 5770 |
| C - Wheelbase | 3290 |
| F - Ground clearance | 450 |
| H - Width | 2520 |
| M - Cabin width | 1010 |
| P - Height | 2850 |
| R - Turning radius at wheels | 4300 |
| S - Turning radius at forks | 5700 |

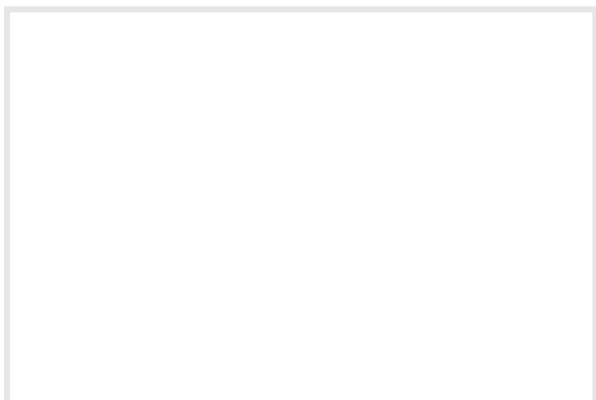
Technical Details



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Your Merlo dealer



MERLO S.P.A.

Via Nazionale, 9
12010 S. Defendente di Cervasca,
(Cuneo) Italia
Tel. +39 0171 614111

info@merlo.com
www.merlo.com

