# Rotating telehandlers

## Regulatory area: EU

## ROTO70.28

MERLO

## Gallery

## 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.

## Hotspot

| | |
|---|---|
| **1 - ASCS ROTO** | 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 - CONTINUOUS ROTATION** | Continuous turret rotation allows full coverage of the work area with maximum freedom of movement. Standard on the “S” rotating telehandler range reaching heights above 19 m and on the “Splus” version. |
| **3 - STABILISATION** | Stabilising the machine is essential for safe working. Stabilisers remaining in the outline of the machine allow stabilisation even in the tightest spaces, while also ensuring excellent visibility when travelling. Standard on the entire range of Stabilised telehandlers. |

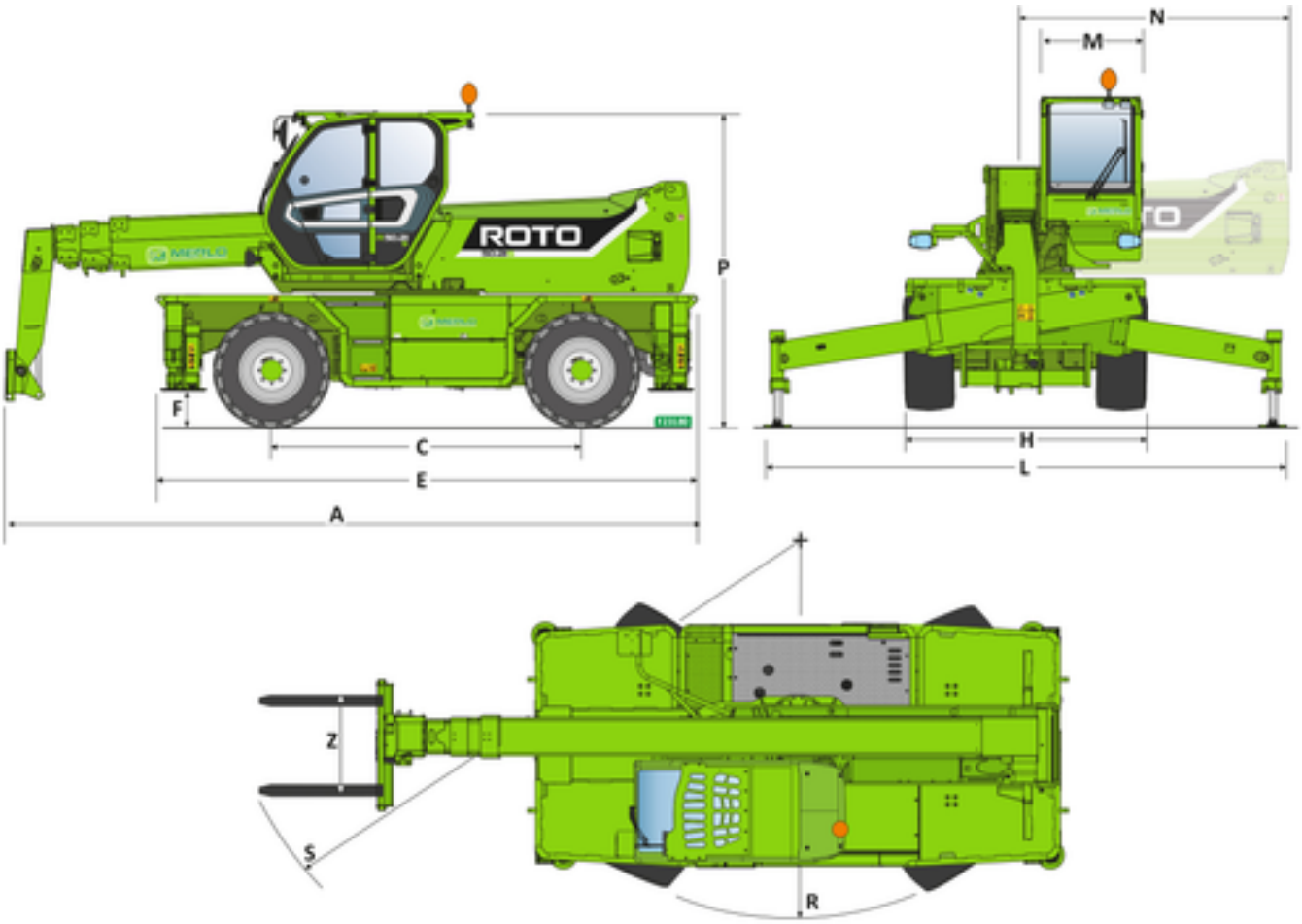
| PERFORMANCE AND FEATURES | ROTO70.28SPLUS-CVT | | |
|---|---|---|---|
| **Performance** | | | |
| Unladen weight (kg) | 22750 | | |
| Maximum load capacity (kg) | 7000 | | |
| Lift height (m) | 28 | | |
| Maximum reach (m) | 23.2 | | |
| Lift height at max. load capacity (m) | 9.9 | | |
| Reach at max. load capacity (m) | 6.5 | | |
| Load capacity at max. lift height (kg) | 3000 | | |
| Load capacity at max. reach (kg) | 850 | | |
| Boom side-shift (mm) | — | | |
| Frame levelling (%) | +/-12, +/-4 | | |
| Boom section | 4 | | |
| **Powertrain** | | | |
| Engine | FPT NEF45 | | |
| Range/Cylinders (l) | 4.5/4 | | |
| Engine power (kW/HP) | 125/170 | | |
| Anti-pollution technology | Stage V - DOC + DPF+ SCR | | |
| Reversible Fan | — | | |
| Maximum speed (km/h) | 40 | | |
| Fuel tank capacity (l) | 150 | | |
| Hydrostatic transmission EPD | CVTronic | | |
| Electronic joystick | ● | | |
| Axles | Axial | | |
| Reducers | Epicyclic | | |
| Brakes | Wet discs | | |
| Automatic parking brake | ● | | |
| **Hydraulic** | | | |
| Hydraulic pump | 2 - LS + FS | | |
| Delivery / pressure (bar-l/min) | 158+100 - 260 | | |
| Hydraulic oil tank capacity (l) | 220 | | |
| Auxiliary hydraulic service on boom | ● | | |
| Rear service line | — | | |
| **Cab** | | | |
| Cab finishing | PREMIUM | | |
| ASCS | Full | | |
| FOPS Cab | ● | | |
| ROPS Cab | ● | | |
| Controls | Electronic joystick control | | |
| Tilting cab | ● | | |
| Double 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 | 445/80-25" | | |
| OPT tyres | — | | |
| Hydraulically controlled stabilizers | Multiposition | | |
| Turret rotation | Continuous | | |
| Tractor type approval | — | | |
| PNEUMATIC braking | — | | |
| HYDRAULIC braking | — | | |
| PTO | — | | |
| 3-point rear linkage | — | | |

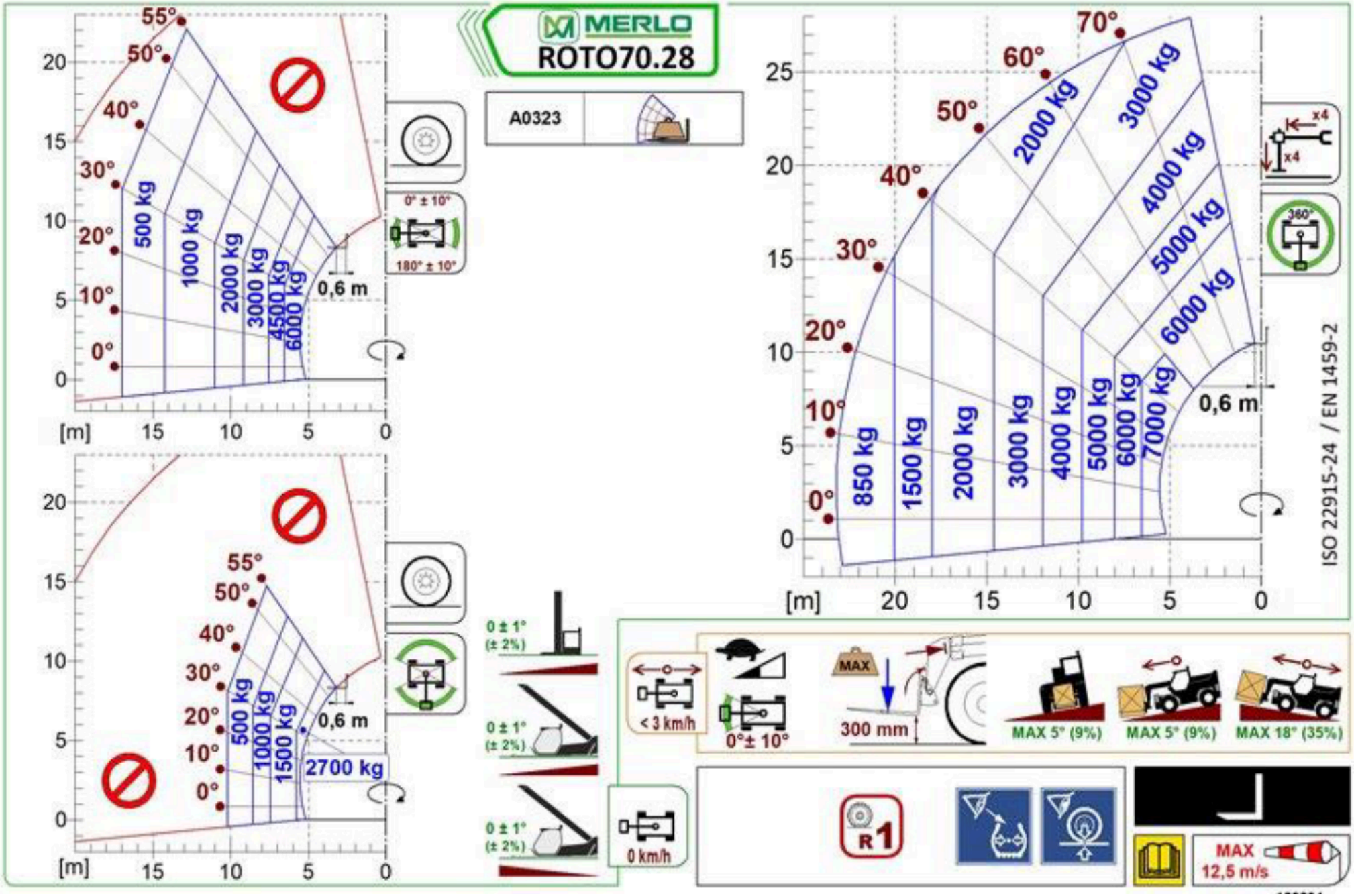
— not available
● standard
○ optional

## Dimensions

| | ROTO70.28SPLUS-CVT |
|---|---|
| A - Length | 8310 |
| C - Wheelbase (mm) | 3780 |
| F - Ground clearence | 315 |
| H - Width | 2540 |
| M - Cab width (mm) | 995 |
| P - Height | 3325 |
| R - Wheel turning radius (mm) | 4840 |
| S - Fork steering range (mm) | 6920 |

## Technical Details




MERLO
ROTO70.28
A0323
55°
50°
40°
30°
20°
10°
0°
500 kg
1000 kg
2000 kg
3000 kg
4500 kg
6000 kg
0,6 m
0° ± 10°
180° ± 10°
[m]
70°
60°
50°
40°
30°
20°
10°
0°
850 kg
1500 kg
2000 kg
3000 kg
4000 kg
5000 kg
6000 kg
7000 kg
0,6 m
x4
360°
ISO 22915-24 / EN 1459-2
2700 kg
0 ± 1° (± 2%)
< 3 km/h
0°± 10°
MAX
300 mm
MAX 5° (9%)
MAX 5° (9%)
MAX 18° (35%)
0 km/h
R1
MAX 12,5 m/s

**Your Merlo dealer**

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