

SERIEMC
0320 EN



TOOL CARRIER MC SERIES



TRE EMME
MERLO GROUP

MC series tool carrier

A light-duty tool carrier specifically built as a multi-purpose vehicle for municipal and light forestry work where a machine that works all year round is required:

- ✓ Left side cab with high visibility of the operating area
- ✓ Robust frame and lower armor plating
- ✓ 4-cylinder engine with power up to 115 kW (156 HP) Tier IV Final
- ✓ Possibility to choose the tool outlet on 3 sides
- ✓ Permanent four-wheel drive and steering of the four wheels with three available modes
- ✓ Dynamic stability control
- ✓ Cab compliant with Rops/Fops/Ops standards with approved anti-shattering transparent windows
- ✓ High efficiency radiators with reversible fans
- ✓ Various options available (3-point linkage, rear PTO, front mechanical PTO, etc.)
- ✓ Fire prevention kits
- ✓ Organic synthetic oil
- ✓ Water preheating system





Cab

- ✓ High driving seat
- ✓ Superior seat comfort
- ✓ 360° visibility
- ✓ Easy access
- ✓ Reduced acoustic impact
- ✓ Approved cab
Rops/Fops/Ops
- ✓ Air conditioning



Four steering modes

The four driving wheels are all steered with hydraulic power assistance. There are four steering modes (on the front wheels, pivot steering, crab steering and - optionally - on the rear wheels only).



On the front wheels



On the rear wheels
(optional)



Pivot steering



Crab steering

Technical advantages

The steel structure of the tool-carrying tractors is the indestructible frame on which a highly technological work system is built. The frame, reinforced with high strength armour plates in the most exposed areas, enhances the concept of rigidity and robustness thanks to its exclusive anti-twist design: the result is a range of machines that are particularly efficient and robust in all applications, especially the most challenging ones. When it comes to the lateral tool outlet, the equipment hydraulic activation offers countless competitive advantages over traditional systems using mechanical devices. The equipment in use can work in positions that go beyond the maximum angles allowed by the cardan shafts; there are no mechanical parts subject to breakage and, as a result, any recoil of the kinematic chain is excluded. Furthermore, the operator can reverse the equipment's rotation direction through a simple electro-hydraulic control in the cab.

- ✓ Innovative anti-twist frame with high efficiency armour plates
- ✓ High ground clearance for extreme off-road operation
- ✓ Low centre of gravity for best stability
- ✓ Wide variety of work equipment

Tool outlet on 3 sides

Rear tool outlet:

- 3-point rear linkage and auxiliary service lines
- Hydraulic PTO
- Towing hook



Right tool outlet:

- Preparation for lateral brush-cutter arm
- Toolbox (without arm)

Front tool outlet:

- 3-point rear linkage Cat. 2 and auxiliary service lines
- Mechanical PTO
- 7-pole power outlet



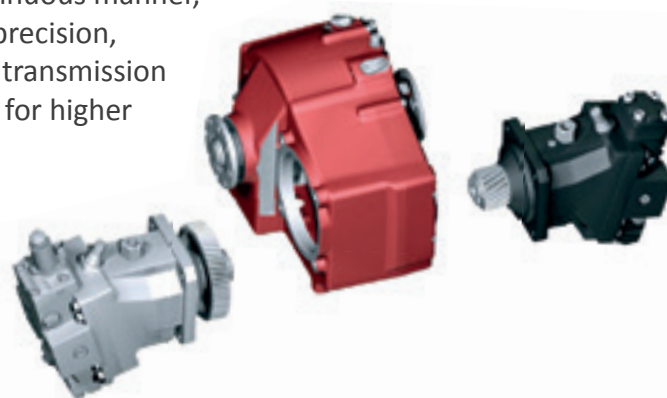
Merlo CVTronic hydrostatic transmission

The continuously variable Merlo transmission uses two hydrostatic engines that work in two operating modes:

- **Maximum torque for lower speeds**
- **Maximum efficiency for higher speeds**

The electronic transmission control manages the transition from the “maximum torque” mode to the “maximum efficiency” mode, in response to the user's needs and the operating conditions. The transition takes place in a smooth and continuous manner, ensuring maximum movement uniformity and precision, superior driving comfort, uninterrupted torque transmission and a greater ability to work at reduced speeds for higher performance.

Once the desired speed is reached, the diesel engine speed will be reduced, resulting in considerable fuel savings.



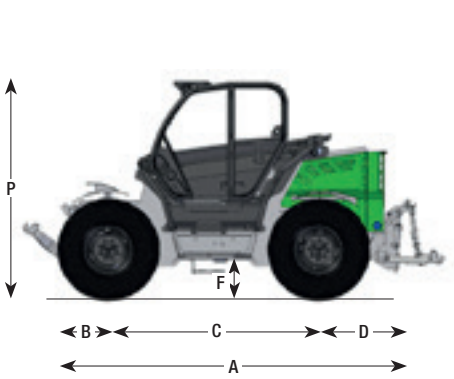
Technical data

| | MM135MC | MM160MC |
|---|---|--|
| Engine | Deutz diesel 3.6 intercooler turbo Common rail Tier IV final | Deutz diesel 4.1 intercooler turbo Common rail Tier IV final |
| Power | 100kW/135HP – 4 cylinders | 115kW/156HP – 4 cylinders |
| MCVTronic drive system | Accelerations from 0 to 40 km/h | |
| Axles | With epicyclic reducers and integrated steering cylinders. Rear free oscillation axle with locking jack. Service brake with 6 oil bath discs | |
| Parking brake | Negative type hydraulically controlled brake | |
| Hydrostatic pump | 65cc electronically controlled pump EPD Merlo | 90cc electronically controlled pump EPD Merlo |
| Diesel tank | 130 l | |
| Hydraulic oil tank | 180 l with cooling | |
| AdBlue tank | 18 l | |
| Main hydraulic system | 1 "Load Sensing" pump for auxiliary controls. Operating pressure: 230 bar. Intake and return filters. | |
| Electric system | Batteries = 12VDC x 132 Ah (950 CCA) - Generator = 95 A | |
| Standard tyres | TRELLEBORG 500/70R24 TH400 | |
| Front toolbox | Hydraulic lift, with D.A. / S.A. functions, category 2, lifting capacity 2500 kg. 3 hydraulic connections: 2 D.A. + 1 with continuous flow, max. 45l/min and free drain | |
| Central power take-off | Hydraulic with closed loop variable displacement pump. Maximum flow rate: 150 l/min max. Maximum pressure 350 bar | |
| Suspended cab | OPT | STD |
| Standard machine configuration | <ul style="list-style-type: none"> • Front lifting - category II (2500 kg) • no. 3 front hydraulic connections • 7-element lateral hydraulic distributor • Air-conditioned cab compliant with FOPS-ROPS-OPS standards • Rear towing hook, cat. C • Rear 7-pole electric connection for trailer lights • Windscreen wiper on overhead guard and on RH window • 8 mm thick RH side window with OPS certification • Automatic battery disconnect switch • Front and rear differential lock • Air flow inversion (Fan Drive) | |
| Optional devices and equipment | <ul style="list-style-type: none"> • Capacitive joystick • Front power take-off • Rear lift cat. 2 capacity 2000 kg • no. 2 rear service lines, one of which with flow control • Rear power take-off 40 kW (55 HP) • Lateral bush-cutter arm, from 6.5 to 8.5 m • VSS-compliant front toolbox plate • Hydraulic third spike boom • Rear camera and 360° camera • Satellite localisation • Steering mode only with the rear wheels • Lateral LED lights | |
| Dimensions and weight with standard tyres | Weight 7800 kg | Weight 8400 kg |
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| DIMENSIONS MM135MC/MM160MC | | | |
|----------------------------|------|--------|-------|
| A (mm) | 5518 | F (mm) | 460 |
| B (mm) | 725 | H (mm) | 2400 |
| C (mm) | 2800 | M (mm) | 1010* |
| D (mm) | 1560 | P (mm) | 3070 |

* internal useful width





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