MULTIFARMER
MF34.7 - MF40.9
New Multifarmer Family

Merlo is the first company on the market to have transformed the concept of a tractor with a telescopic boom into a reality and to have patented this technology. Today, the new Multifarmer ranges available in the USA (consisting of the MF 34.7 and the larger MF 40.7 models) are designed to offer a telehandler equipped with a boom that can manage loads of 7500-8800 lbs, working at heights of 22.4-28.9 (ft.in.) From a technical point of view, the new Multifarmer models are equipped with M CDC (Dynamic Load Control) anti-tipping system, and with 140 HP and 170 HP engines managed by the EPD system, which enables reductions in diesel fuel consumption. In addition to performing handling operations, Multifarmers can also be equipped with tools that are carried, towed or operated by the PTO, which means they can also be used for field applications such as seeding and transport.

- BSS - hydro-pneumatic boom suspension (on request).
- M CVTronic transmission. From 0 to 25 mph without torque interruption.
- 6613 lbs. Category II (MF34.9) and 15432 lbs Category III. (MF40.9) 3-point linkage, equipped with quick coupling system.
- PTO, electronically-managed mechanical fitting.
- Hydraulic distributors controlled from the cab and rear quick-release couplers.
- Rear differential lock.

1. Merlo CDC: Merlo’s patented safety system (optional on MF34)
2. New joystick with reverse shuttle (duplicated on steering wheel)
3. New display
4. New air conditioning system
5. Inching control pedal
6. Multifunctional armrest
7. Differential lock

PREMIUM CAB
As standard on MF40
Optional on MF34
The new Multi farmer models are fitted with an innovative cab designed to provide customers with record-breaking comfort, thanks to the unique wide space and window, available to the operator.

- The largest cab in its category: 3'3" of effective inside width and a window surface area measuring an amazing 492 sq. ft. which ensure off-the-charts visibility.
- New modular cab as standard: pressurized (complies with ISO 10263-3, not suitable for use with pesticides).
- Structure in line with ROPS and Level II FOPS standards.
- Reverse shuttle at steering wheel command: intuitive and easy to use; it enables fast maneuvers, being in full control of the steering wheel.
- The high visibility roof enables direct control of both the boom and the load.
- Door opens by 180° with a separate small upper window: air exchange, visibility and direct contact with the exterior.

**AIR-CONDITIONING SYSTEM**

The air flow is distributed evenly inside the cab and reaches all areas.
Engine and transmission

For the new Multi farmer ranges, Merlo designers have adopted technologically-advanced diesel engines, evolved hydrostatic transmissions and axles equipped with dry disc brakes that help reduce power absorption. Diesel engine/transmission management is electronic, in order to optimize performance and minimize energy expenditure.

- The Multifarmer range is equipped with two Tier 4 Final engines: Deutz 4 cylinder/3.6 liter from 100kW/140CV and Deutz 4 cylinder/4.5 liter from 125kW/170CV.
- Merlo hydrostatic transmission with EPD (Eco Power Drive) system as standard.
- Merlo telehandlers are equipped with hydrostatic transmissions that ensure greater precision, increased safety and optimal ease of use.
- The EPD Top is equipped with a "Speed control" button that allows the machine handling speed to be memorized, and to be kept constant. The "Heavy Load" function, designed for heavy-duty operations, allows the machine to deliver more power.
- When working with the PTO, the potentiometer enables the number of revolutions to be set in accordance with the tool being used (540/1000). The system keeps the revolutions within the threshold limit, ensuring that the engine speed is appropriate to the tool, maximizing machine performance and productivity.
- The self-accelerating joystick is fitted as standard and can be used to achieve higher hydraulic boom movement speeds, optimizing performance. The system is activated once the 20% joystick movement threshold is exceeded.
The CVTronic transmission follows Merlo’s traditions in the hydrostatic field and ensures smooth acceleration without interrupting torque from 0 to 425 mph. The transmission comprises two hydrostatic motors with axial pistons driven by an electronically controlled hydraulic pump. At low work speeds, they function in conjunction to provide maximum torque with an increase of 12% with respect to conventional hydrostatic transmissions. During transport, the second hydrostatic engine is automatically disengaged from the control system and the oil from the pump powers the main hydrostatic engine that drives the Multifarmer to maximum speed.
The axles

Multifarmer telescopic tractors are equipped with planetary axles which are conceived, designed and built in-house to ensure maximum robustness, excellent steering capacity and "best in class" ground clearance, 18 inch with 500/70-24 and 19 inch with 600/55-26.5 (optional). All Multifarmers are equipped with 4 dry disc brakes that allow for a consistent decrease in friction when compared with oil bath discs, with a corresponding reduction in fuel consumption. The parking brake is automatically engaged when the engine is switched off. The operator can also engage it willingly when the engine is running for stationary work on slopes.

- Axles designed and integrated into the design: maximum performance and excellent versatility.
- Three steering modes: front wheels, four wheel and sideways crab for easy handling, efficient and effective working.
- Up to 19 inch clearance off the ground, the best in its category.
- Dry brakes to reduce friction and fuel consumption.
- Automatic parking brake engagement system when engine is turned off.
- Rear axle lock system to prevent oscillation of the axle for operations with 3-point linkage.

THREE STEERING MODES

FRONT WHEEL STEERING  
FOUR WHEEL STEERING  
CRAB STEERING

Parking brake selector and steering mode selector

19 inch ground clearance. 600/55-26.5 tires
Merlo produces the booms mounted on its telehandlers in-house, and has developed unique technologies to make them strong and lightweight, protect handling mechanisms against blows and to enable easier and more precise load positioning.

- **BSS - hydro-pneumatic boom suspension system:** Patented Merlo technology.
- **Boom sheet metal welded on the boom’s neutral bending axis.**
- **Cartridge:** protected extension system inside the boom, thanks to a patented solution that is easy to access if maintenance is required.
- **Tac-Lock:** hydraulic attachment clamping system from the cab.
- **Leveling:** system for correcting tilt, built into the chassis, enabling the operator to offset sloping ground and work in complete safety.

**BSS hydro-pneumatic suspension of the boom (optional), the operator can activate it; automatically deactivates under 2 mph to ensure maximum precision in the positioning of the loads.**
Merlo Dynamic Load Control

Safety is an essential value for Merlo Group, and that’s why we invented the Merlo CDC system. Our goal is to allow every operator to work in total safety, exploiting the potential of the telehandler and attachment used to the full. The operator can check the dynamic stability of the vehicle at any time on the dedicated area of the Merlo CDC display or the traffic lights on the front upright in the M CDC Light version. When performing maneuvers that place the stability of the telehandler at risk, the M CDC system locks the arm and prevents further movements that could exacerbate the situation.

DISPLAY

All safety information are clearly shown on the 8.5” color display (provided as standard on the MF40, available as an option on the MF34). An indicator on the load chart provides the operator with information on the dynamic stability of the telehandler and the Merlo CDC prevents risks to the longitudinal balance, locking the movements of the boom as necessary, in order to ensure high levels of safety both for people and for the machines in operation.

1. Attachment in use
2. Boom working area
3. Current location of boom load (represented by a colored dot)
4. Load detection menu
5. Operating parameters
6. Operating information
7. Stability index

The traffic light indicator on the right side pillar provides instant, clear information. The different colors and audible signals help the operator understand the stability status of the machine as quickly as possible, avoiding potentially risky situations.
Safety

- Safety that goes further than the requirements of the EN15000 standard.
- Automatic attachment recognition (for attachments built in Merlo factories and fitted with the M CDC sensor).
- 8.5” display in cab (optional on MF34).
- ROPS and FOPS protection, no impact on comfort inside the cab.

Rear video camera (optional)
Sensor on the attachment
Sensor on the carriage
Three-point linkage, PTO and a 35 ton towing hook with hydraulic distributors are the specifications which make Multifarmer models perfect for use in the agriculture sector.

A mobile power unit which makes the Multifarmer a versatile machine capable of performing all kinds of tasks: from handling to carrying/towing attachments activated by PTO.

The PTO is managed by the electronic control unit, which progressively engages the clutch depending on the inertia of the attachment. The rate of efficiency is close to 90% of power to flywheel.

- Electronically-controlled PTO.
- 540/1000 can be selected from cab.
- EPD: potentiometer enables constant PTO speeds.
- Handler can be operated from the cab and from the ground.
- Lifting capacity of 6614 and 15432 lbs.
- Hydraulic distributors operated by proportional controls.
- Three-point linkage: cat. II for Multifarmer 34.9, cat. III for Multifarmer 40.9.
We are determined to ensure that Merlo telehandlers are increasingly multi-purpose, in order to maximize return on investment for our clients. With the new Multifarmer range, we push the limits of this concept even further, indeed, in addition to the traditional uses for our telehandlers (generally in handling, logistics and maintenance operations), the new Multifarmer can also be used for towing, courtesy of the tow hooks (type-approved up to 35 tons) and the pneumatic and hydraulic trailer’s braking system.
Attachments

Merlo applies a simple and effective principle when developing its products. From the design to the build: everything is conceived, designed and built in the Merlo Group Research Center. This simple principle also applies to our attachments. Armed with years of experience, Merlo’s engineers have developed a wide range of attachments of various types and load capacities. This work method ensures a broad range of tested and interchangeable attachments that help save time and effort.
Merlo in figures

- 1200 employees
- Overall surface area of 3,229,173 sq. ft. of which 2,368,000 sq. ft is covered.
- Approximately 90% turnover from export
- More than 50 markets across the world
- 6 branches and more than 600 dealers
- 8% of turnover invested in R & D
- 60 production robots
- 90% of production in-house

The Merlo brand has always been a leader in advanced technology in the telehandler field. Since 1964, we have brought experience, determination and passion to everything we do. Developing complex products, from the idea to the result, from design to sales, means being able to anticipate trends in the most competitive markets. Merlo Group’s dedication has resulted in the design and manufacture of compact, easy-to-handle telehandlers which offer market-leading performance, comfort, efficiency and safety.
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