CONSTRUCTION
Merlo’s factories in San Defendente di Cervasca (Cuneo) cover an area of 300,000 m² (with 220,000 m² inside facilities)
The Merlo brand is synonymous with advanced technology in the field of telehandlers and operating plants. Since 1964 Merlo’s history has been one of ideas, tenacity, and passion. Together these characteristics form the cornerstone of an industrial group that has developed a highly successful range of products, which have been awarded numerous international prizes.

The development of complex projects, from initial idea to end product and design to sales, requires the ability to innovate and anticipate the needs and future trends of an increasingly competitive market. In pursuit of more ambitious goals, Merlo technology has become the driving force behind a development program that is able to look beyond the conventional. Safety, comfort and performance are the key concepts.

The result is that every machine we build is a record beater, in terms of design, power, environmental safety, and customer satisfaction.

This winning attitude is demonstrated by our integrated production process, modern construction methods, process automation, revolutionary integrated electronic systems, robotic machining systems and in many other ways.

The will to maintain closer links with our customers is reflected in our ongoing programs of personnel training and refresher courses, in the quality of our service network, and in the relationships of mutual trust we have built with our dealers.

The result is a range of compact and manoeuvrable machines that offer unparalleled comfort, efficiency and, above all, safety.

This is the strength of the Merlo Group.
Largest cab in the category

- The roomiest cab available on the market
- Maximum visibility in all directions
- Merlo CDC Dynamic Load Control for enhanced safety
- New instrument panel for state-of-the-art instant information
- Inching pedal for accurate manoeuvres
- Efficient A/C system (on joystick/steering wheel) for increased comfort
- Cab specifications fully compliant with ROPS/FOPS standards
**CAB - STANDARD AND SUSPENDED VERSION (CS) – MERLO PATENT**

The cab is the largest on the market with an overall width of 1010 mm. A quick glance is all it takes to see that we are dealing with an outstanding cab with reference to concept, design and ergonomics. Just take a seat to feel at ease. Excellent accessibility thanks to the 770 mm door, ergonomic seat, tilting steering wheel and superb visibility in every direction including top side. The comfort is optimised with the suspended cabin. A unique solution that only Merlo can offer in the market.

**THE FIRST AND ONLY SUSPENDED CAB IN THE TELESCOPIC SECTOR**

![comfort graph](image)

**BOOM SUSPENSION SYSTEM – “BSS”**

The boom can be suspended in order to have smooth movements during displacement with positive impact on the comfort level and eliminating the losses of load. A hydraulic circuit with pneumatic pressure damper absorbs and reduces the shocks due to uneven ground. BSS system will be automatically switched off under 3 kph.

**FRAME LEVELLING SYSTEM**

Along with the boom-side-shift system allows the frame to be tilted, thanks to two hydraulic cylinders connected between the chassis and the front axle. In sloping conditions (max. 10%) the frame cab be adjusted by the operator in order to raise the boom vertically, ensuring in this way the maximum safety working conditions.
**SAFETY**

- **M CDC**: with attachment recognition
- **Tac-Lock**: implement quick attaching system, controlled from the cab
- **Hydrostatic transmission**: dynamic breaking effect
- **Merlo telehandlers are fully compliant with the AS1418.19**

---

**M CDC - MERLO DYNAMIC LOAD CONTROL SYSTEM (RATED CAPACITY LIMITER)**

**Safety comes first**

The M CDC system manages the dynamic safety of our telehandlers thanks to an integrated computer that manages the load charts according to the attachment in use and to various operational parameters such as the carried load, the boom angle/extension/speed. Only the Merlo attachments can be recognized by the system thanks to sensor. All the safety information is clearly show in the colour display. An indicator on the load chart informs the operator about the dynamic equilibrium of the telehandler and the M CDC avoids risks for the longitudinal equilibrium of the machine by blocking movement if needed.

---

**BOOM AND TAC-LOCK SYSTEM**

**Comfort and no loss of load**

Merlo offers standard on all its telehandlers the quick and hydraulically controlled system to couple and locking of Merlo attachments. Another patented solution to increase your productivity and reduce the loss of time. The hydraulically powered extension mechanism is fully integrated in the boom sections in order to protect it from site damage.

---

**MERLO HYDROSTATIC TRANSMISSION**

**Safety and precision**

Merlo experience in the hydrostatic transmission guarantees quick shuttling, smooth and progressive acceleration and maximum safety with a dynamic braking effect when driving downhill and excellent traction in all conditions thanks to the permanent 4WD. To further enhance the precision in confined space the operator can use the “inching” system (standard on all Merlo models). The hydrostatic transmission is connected to a two-speed gearbox. Upon request it can be also equipped with an electronically controlled “Shift-on-the-go” system (patented by Merlo) to increase comfort.
EFFICIENCY AND VERSATILITY

• 18% fuel consumption with the Merlo EPD system

• Stabilizers designed for versatility

• Side shift system for optimum productivity

• Three steering modes: agility and productivity

---

EPD (ECO POWER DRIVE)

Consumption reduction up to 18%

EPD is a patented system to reduce consumption without limiting the telehandler. The EPD manages the diesel engine rpm separately by the accelerator pedal. The operator asks for a certain performance through the accelerator (speed in transport or torque for heavy operations) and the body computer manages the diesel engine accordingly. It’s a unique and patented solution that increases the telehandler and reduces diesel consumption in such a way that > 3 litres per hour can be saved vs conventional engines systems.

---

STABILIZERS

In order to offer the maximum stability Merlo offers the Panoramic version equipped with stabilizers

The operator can control both stabilizers independently.

On sloping grounds the boom can be raised vertically by the frame levelling system up to 24%. The stabilizers remain within the width of the machine ensuring the maximum compactness and at the same time optimum stability.

---

BOOM SIDE SHIFT - MERLO PATENT

Best in class for flexibility & precision

A unique Merlo solution to enhance the operational precision of our telehandlers. The system allows the operator to move the boom laterally without having to displace or reposition the all telehandler.

A great time saving and increased precision.
Merlo products are Australian Standards 1418.19 and 1418.10 compliant

Safety comes first!

The whole Merlo product range sold in the Australian market and used in Australia is certified as meeting the required Australian Standards issued. The most popular Merlo telehandlers have been Tested and Certified by an authorized third party Certification Company based in Sydney.

The certification includes the design analysis, the stability and limiting device validation, according to specific load charts for Australia. In addition, the structural integrity design is checked. Therefore Merlo machines are delivered with a Certificate of Conformity issued by the Manufacturer “Merlo S.p.A” directly.

In addition and upon request, any Merlo Telehandler and its original attachments offered to our final customers can be provided with its proper specific “Design Verification” documents.

The pictures shown below highlight the main specifications adopted by Merlo to meet the Australian market requests:

Load Chart compliant with AS1418.19  
External longitudinal stability indicator  
Lateral and longitudinal level indicators fitted to the windscreen and RHS glass
Boom ram safety blocking device

Anchoring points on the chassis

Rear camera starts automatically when engaging the reverse shuttle.

Merlo CDC (Dynamic Load Control) rated capacity limiter

Internal longitudinal stability indicator (w/o Merlo CDC)

Machine identification plate
Merlo manufactures its own attachments according to Merlo quality standards thanks to the long experience made in 50 years of activity. Every attachment is designed in order to obtain the maximum working performance and efficiency. Since the cut in of M CDC – Merlo Dynamic Load Control System – all Merlo attachments are equipped with a sensor. As soon as it is attached to the telehandler it sends the load chart to the M CDC system via a second sensor fitted on the front carriage. The M CDC is a user friendly system and provides the necessary information to the operator in order to prevent the boom movements to be blocked by the M CDC safety parameters. Merlo attachments are AS1418.19 compliant and listed on a plate shown on the cab LHS. Merlo implements are interchangeable by a quick attaching system. The attachment is locked to the fork carriage by means of a hydraulic system denominated Tac-Lock standard which is controlled from the cab, making the locking operations easier, safer and more comfortable.

N.B. LMS system adopted on a few Merlo models adopt the same criteria as mentioned above

**Authorized attachments plate**
The authorized attachments plate is applied in the front part of the cab and provides the list of authorized attachments for your machine.
Merlo products available for Australian market

Merlo is known for its wide range of products, high technology levels, innovative systems, outstanding quality and good value for price, and are now manufactured and customised to suit the Australian market. With Merlo’s wide range of products and services you’re sure to find exactly what you’re looking for and above all you know with Merlo the customer always comes first!

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<thead>
<tr>
<th>MERLO RANGE</th>
<th>MODEL</th>
<th>Max. lifting height (m)</th>
<th>Max. capacity [kg]</th>
<th>Max. Lifting Height (m)</th>
<th>Engine [kW/HP]</th>
<th>Speed [km/h]</th>
<th>Hydraulic system</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
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</table>
Concentrated power, small dimensions, big performances

Best comfort with the biggest cab of the category

The reduced dimensions make these telehandlers ideal for work in restricted environments. The chassis architecture is innovative and the telescopic boom is extremely compact and built using the tried and tested Merlo system of having all the mechanical workings within the boom structure.

The extension components, hydraulic, and electrical systems are well protected within the boom structure.

By not leaving parts on the exterior, damage caused by the inevitable knocks received on the work-site is avoided.

- Cab heights (standard models): 1770 mm (P25.6 L), 1920 mm (P25.6) and 2150 mm (P30.6-P 30.8).
- Attachments: dedicated attachments to make your work easier and increase your productivity.
- Operator position: cab width 1010 mm for supreme comfort.
- Wide-opening doors for easy access and improved operator comfort.
- 5.9 m (P25.6), 6 m (P32.6), 7.7 m (P28.8) maximum lift height. The compact series outperforms front loaders in terms of height, operating boom speed, and productivity.
- Electronically controlled hydrostatic transmission: easy, practical, and intuitive.
- P25.6 engine is equipped with Kubota Tier 3 engine 55kW/75HP
- P30.6 and P30.8 engines are equipped with Kubota Tier 4 interim engines 74,5kW/101HP
- Hydrostatic transmission: manoeuvre with inching precision.
- Max. speed: 36 km/h (P25.6), 40 km/h (P30.6 and P30.8), braking on all 4 wheels.
9 versions designed for the Australian market

The best in class for compactness and productivity

Panoramic models are among the best selling products of the Merlo Group. In the 7 meter-class, the most popular Panoramic w/o stabilizers is the P34.7, whilst on the 10 metre-class it is the Turbofarmer P36.10. All the models can be used in confined spaces, thanks to their compactness and their three-mode steering system which increases maneuverability and versatility.

The engine and hydrostatic transmission are electronically controlled for better performance. The transmission is also equipped with a two-speed mechanical gearbox designed to suit speed from zero to 40 km/h. Its low centre of gravity and correct weight distribution allow excellent stability and the permanent 4WD system allows for the best traction. Comfort is assured by a cab designed and manufactured by Merlo. 1010 mm cab width is the best in its class.

The driving position and controls have been designed according to the latest ergonomic standards to ensure the maximum comfort.

- Maximum lift height: 7 m and 10 m are the most popular lift height.
- Maximum load capacity: from 3400 kg to 4100 kg.
- Three different engine powers are available: Deutz rated at 74.9 kW/102 HP; Deutz rated at 88 kW/120 HP; Deutz rated at 102 kW/140 HP.
- Engines and hydrostatic transmissions are electronically controlled.
- Two-speed mechanical gearbox is designed to suit speed from zero to 40 km/h.
- Inching pedal: for better speed control and work accuracy.
- BSS: Boom suspension system for active dampening during material handling (opt).
- 3-Steering modes: operator can improve maneuverability and save time.
- Cab: Merlo maintains its leadership in operator comfort, ergonomics, and visibility.
- Engine maintenance: Access to main engines components for easy maintenance.
Panoramic with stabilizers

First in performance and reliability.
Maximum stability within the minimum space!

The unique Merlo design ensures good weight balance which, together with versatile drive/steer axles, extraordinary ground clearance, permanent 4WD and road travel at up to 40 km/h (25 km/h for the P38.13), ensure unrivalled driving ability in the most challenging of ground conditions. The Panoramic telehandlers feature a brilliant boom side-shift system uniquely developed by Merlo. The operator controls the resulting sideways movement of the load with great accuracy. Two hydraulically operated stabilizers on the front axle ensure the necessary stability and allow the machine to be fully operational on uneven or sloping grounds. The operator can place the stabilizers independently upon the ground and use them to level the chassis.

Two most important models are available in Australia are the P38.13 Std and Plus (compact, user-friendly and versatile) and P40.17 (the flagship, with power, load capacities, and lift heights that are industry standards.).

- P38.13 Maximum Load capacity: 3800 kg. Maximum Lift Height: 12.6 m.
- P40.17 Maximum Load capacity: 4000 kg. Maximum Lift Height: 16.7 m.
- P38.13 model is powered by 4 cyl. Engine 84 HP suitable power.
- P38.13 Plus and P40.17 models are powered by 4 cyl. Engine 101 HP suitable power.
- Frame levelling system: allows the chassis to be horizontally levelled ensuring a truly vertical lift for better stability.
- Front hydraulic stabilizers: independently controlled, improve the machines stability.
- Boom side shift system: load can be placed with max. accuracy. It saves time and boosts productivity.
- The suspension systems (boom or front axle) ensure maximum comfort.
- Cab: it is the largest of this vehicle class with 360° visibility.
- Fork carriage: allows attachments to be quickly interchanged by the quick attach system and locked using Tac-Lock controls in the cab.
- Hydraulic service fitted with quick couplings provides the power for hydraulically-operated equipment.
Panoramic CS (cab suspension)

Innovative solutions adopted on CS Series offer more comfort, productivity and fuel savings

The Panoramic CS is a revolutionary telehandler that introduces new solutions for design and engineering, and anticipate what telehandlers will be like in the next few years. This product family offers many unique technologies as standard in order to increase comfort, productivity and reduce the fuel consumption.

Best in class comfort is ensured by the hydro-pneumatic cab suspension, a patented technology which only Merlo telehandlers can offer. Another exclusive Merlo technology, the EPD (Eco Power Drive), reduces the consumption by about 18% to guarantee low cost of ownership. The maximum productivity is delivered also thanks to the «self accelerating system» integrated in the joystick function and the dual reverse shuttle system with buttons on the steering column and the joystick.

- P55.9CS: maximum Load capacity 5500 kg, Maximum lift height: 8.6 m.
- P75.9CS: maximum Load capacity 7200 kg, Maximum lift height: 8.6 m.
- The model is powered by: 4 cyl. Engine 103 kW/140 HP power. 40 km/h top speed.
- Hydro-pneumatic cab suspensions (CS): standard, for greater operator comfort.
- Cab Suspension system ensures an efficient dumping effect in any situation, regardless load, terrain and driving speed.
- Load Sensing pump ensures the correct oil follow when it is necessary by the hydraulic circuit.
- Self-accelerating system: to get higher boom speed the operator moves the joy stick forward. The system increases engine rpm and oil flow automatically. User-friendly system to boost productivity.
- Dual reverse shuttle system: buttons are located on joy stick as well as on the steering LHS to improve productivity.
**Top performances and versatility**

A complete range of products able to match all different customer needs when it comes to our heavy duty range.

The P60.10 and P72.10 are available designed for Heavy-Duty applications.
Both models are powered by a 4 cyl. engine rated at 101 HP and they weight (total unladen mass with forks) 9800 kg and 10650 kg respectively.
They benefit from the performance and the precision of the hydrostatic transmission that combined with the two-speed gearbox allows the reach 40 km/h. Boom side-shift (a content that only Merlo can offer) together with the frame levelling ensure the maximum versatility and productivity in all conditions.
The boom side-shift allows the upper part of the chassis and boom to be moved sideways, according to the longitudinal axis of the machine.
The operator controls the resulting sideways movements in order to place the load with maximum accuracy.
The frame levelling system allows the frame to be adjusted in order to work in sloping conditions (Max. 10%) in order to raise the boom vertically, ensuring in this way the best safety working conditions as well as the correct lifting capacity.

- P60.10: maximum load capacity 6000 kg, P72.10 7000 kg.
- Boom side-shift system (Max 500mm): load can be positioned with maximum precision.
- Frame levelling: chassis can be laterally levelled to compensate sloping ground.
  It allows the boom to be lifted vertically for better and safe working conditions.
- Hydraulic system: Load-Sensing pump for top hydraulic performance.
CFRM TRAINING CENTRE
The Merlo Training and Research Centre (CFRM) has turned safety and machine operation training into its central mission. CFRM provides training courses for people-carrier overhead platform operators, fork lift trucks, telehandlers, cranes, earth moving machinery, agricultural and forestry tractors, snow clearance vehicles and urban refuse collection vehicles.

MOVIMATICA MERLO INFOMOBILITY
This is the new vehicle management system designed and built by the Merlo Group itself: it enables GPS radio-localisation in real time, monitoring operation and use, receive and manage malfunction or burglar alarms and also send commands for handling events via the internet.

Countries where Merlo is Market leader
In a globalised world, the client is always number one!

From excellent products to excellent service. In 2008, Merlo adapted its production process to meet the needs of the ISO 9001 quality control system. The process is perfected and improved continuously. At the same time, the foundations have been laid to put the Customer first, implementing investments aimed at Services such as Financing, Training Assistance, Spare parts and Telematic Means such as remote diagnostics, thanks to the Merlo Mobility project.

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<th>Automatic spare parts warehouse</th>
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<th>2014</th>
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The telehandlers illustrated in this document may be equipped with optional or special accessories that do not form part of the standard supply but which are available on request. In some countries certain models or attachments may not be available as a result of market restrictions or regulations. The technical data and other information in this document were correct at the time of printing; however, we reserve the right to modify our products, without prior notice, as part of our policy of continuous technical improvement. Your Merlo dealer will be pleased to provide you with the latest information on all our products and services.