MACHINE OF THE YEAR 2014

MERLO

AGRICULTURE
Merlo’s factories in San Defendente di Cervasca (Cuneo) cover an area of 300,000 m² (with 220,000 m² inside facilities)
Mission: innovative group

Safety
Comfort
Maximum performance

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, performance, 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 maneuverable 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 wide 770 mm door, ergonomic suspension 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

BOOM SUSPENSION SYSTEM - «BSS»
The boom can feature a suspension system to have smooth movements during displacement with positive impact on the comfort level and eliminating the loss of the 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 the 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 safer working conditions.
**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 shown 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 provide positive 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 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.

- **M CDC**: with attachment recognition
- **Tac-Lock**: quick attaching system
- **Hydrostatic transmission**: dynamic breaking effect
- **Merlo telehandlers are fully compliant with the AS1418.19**
**EFFICIENCY AND VERSATILITY**

- 18% less fuel consumption with the Merlo EPD system
- PTO and 3 point linkage for maximum versatility
- Side shift system for better productivity
- Up to 510 mm of ground clearance with the portal Axle

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**EPD (ECO POWER DRIVE)**

Consumption reduction up to 18%

EPD is a patented system to reduce consumption without limiting the telehandler performance. 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 performance and reduces diesel consumption in such a way that > 3 liters per hour can be saved vs conventional engines systems.

**PORTAL AXLES, BRAKES AND DIFF LOCK**

The portal axles are purpose designed to offer the best ground clearance and oscillation

Axles are generally speaking of portal type, apart from P25.6 which are of epicyclic type. They are designed with brake discs with floating calipers located on each shaft in order to ensure the maximum braking efficiency. Full differential Diff Lock is available as option on both axles. An automatic parking brake operates when the engine is switched off (or manually selected by the operator). It is user friendly and efficient. Since it is automatic it ensures the maximum safety when parking the machine on sloping conditions.

**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 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制造自己的附件，根据Merlo的质量标准，以50年的工程经验为基础。每一个附件都设计为获得最大工作性能和效率。

从加入M CDC—Merlo动态负载控制系统——所有Merlo附件都配备了传感器。只要它被固定在telehandler上，它会通过在前架上的第二个传感器发送负载图表到M CDC系统。M CDC是一个用户友好的系统，为操作者提供必要的信息，防止由于M CDC安全参数而被锁定的臂的运动。Merlo附件符合AS1418.19标准，并在显示于驾驶室上的牌匾上列出。Merlo实施的附件可以通过快速装卸系统互换。

附件通过液压系统Tac-Lock锁定在叉车载具上，其操作由驾驶室控制，使锁定操作更容易、更安全、更舒适。

N.B. LMS系统在少数Merlo型号上采用上述标准

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授权附件牌匾

授权附件牌匾在驾驶室的前面，提供了列出的授权附件的列表，这些附件适合您的机器使用。

授权附件列表

- 折叠干草捆夹
- 叉车夹
- 鼓夹
- 钻头
- 挖掘桶
- 多用途桶和夹
- 折叠干草捆刺
- 滑动靠背
- 钩/提升臂
- 重新处理桶

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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 customized 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 that with Merlo the customer always comes first!

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Overseas model shown
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 (P 30.6-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 means 360° visibility. 9 models with two boom dimensions (7 and 10 metres) and load capacity from 3400 to 4100 kg.
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 (25km/h for P34.7 standard model). Its low center 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/102HP; 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 manoeuvrability and save time.
- Cab: Merlo maintains its leadership in operator comfort, ergonomics, and visibility.
- Longitudinally mounted engine for an easy access in case of maintenance.
Overseas model shown
Merlo’s telescopic tractor

The world first crossover between a tractor and a telehandler

At the 2013 edition of Agritechnica (Germany), the Multifarmer was considered among the twelve most innovative machines ever conceived for the agricultural sector. The Merlo idea turned out to be innovative and at the same time simple, since it was a true telehandler equipped the same rear specifications and components of a conventional tractor, such as hydraulic lift, 3 point linkage, PTO and external spool valves.

The Multifarmer family has been constantly improved in order to remain competitive and state-of-the-art machine.

MF30.6 and MF30.9 are the right models for the Australian farmers who are willing to maximise the use of their telehandlers.

- Mechanical rear PTO: 540/1000, 6 spline-shaft to suit any implements of this HP class
- Two external spool valves for rear mounted implements
- Three point linkage lifting: Cat II. Lifting capacity 4300 kg. External button controls.
- Load capacities up to 4000 kg.
- Hydraulic braking system or air braking system.
- Diesel engine with 120 HP.
- Weight: 6650 kg. It offers 55kg per HP, in line with the best tractor ratios
- Rated maximum load: 3000 kg (MF30.6), 2800 kg (MF30.9)
- Maximum lift height: 6 m (MF30.6) an 9 m (MF30.9)
- Drawbar pull: 6000 kg for maximum working performance
- BSS: The boom suspension system provides greater payload stability, higher average speed and productivity
Panoramic CS (cab suspension)

Hard work in first class

The Panoramic CS are revolutionary telehandlers that introduce new solutions for design and engineering, and anticipate what telehandlers will be like in the next few years. Best in class comfort is ensured by the hydro-pneumatic cab suspension, a patented technology which only Merlo telehandlers can offer. Consumption reduction of about 18% thanks to another exclusive Merlo technology, the EPD (Eco Power Drive). 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.

- Hydro-pneumatic cab suspensions (CS): standard, for greater operator comfort.
- Load Sensing pump ensures the correct oil flow 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.
- EPD standard: -18% consumption.
- 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.
- 4 cyl. engine 103 kW/140 HP power. 40 km/h top speed.
Overseas model shown
The Merlo heavy duty range: performance and versatility

Steel muscles for hard work

The P60.10 and P72.10 are designed for Heavy-Duty applications. Both models are powered by a 4 cyl. engine rated at 101HP 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, 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 safer working conditions as well as the correct lifting capacity.

- Boom side-shift system (Max 500mm): load can be positioned with maximum precision.
- Frame levelling: chassis can be laterally adjusted 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.
- 4 cyl. engine 74.5 kW/101 HP power. 40 km/h top speed.
- Two load capacities: 6000 kg and 7000 kg.
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.

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.
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.

**NEW SPARE PARTS SERVICE**

The new automated spare parts warehouse covers an area of 7,000 m², with storage capacity of 10,000 m³ for a total of 20,000 different codes. Furthermore, it can automatically manage 94% of the order lines that are processed daily, with an average withdrawal time of 30" per line. The first fill per order line is over 99% with delivery times for urgent orders within 24 hours.
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.