

PANORAMIC 6072 - UK



The supremacy of ideas.

# PANORAMIC

P 72.10  
P 60.10



# CHARACTERISTICS AND PERFORMANCE



## **Cab**

- Complies with ISO 3449 (FOPS) and ISO 3471 (ROPS) standards.
- "4 x 1" electro-proportional joystick.

## **Boom**

- Telescopic, with sections sliding on adjustable low-friction pads.
- Hydraulic extension mechanism, hydraulic pipes and electrics are totally enclosed within the boom assembly to ensure maximum protection and reliability.
- Integral boom side-shift mechanism.

## **Quick-attach carriage**

- The Tac-Lock quick attachment fitting system is hydraulically controlled from the cab.
- Standard double-acting hydraulic service, with quick couplings, for the operation of hydraulically powered attachments.

## **Frame levelling**

- Hydraulically operated from the cab. Frame levelling  $\pm 10\%$ .

## **Forks**

- Floating type. Length 1200mm. Section 150 x 60mm.
- Fork spacing is manually adjustable between 450 and 1010mm.

## **Steering**

- Four drive/steer wheels, with automatic wheel synchronisation in the event of any misalignment and selection of three steering modes from the cab.

## **Engine**

- Direct injection, water cooled, 4 cylinder Perkins Euro 2 turbo diesel engine producing 74.5kW-101HP at 2400rpm (97/68/CE).

## **Transmission**

- Hydrostatic with electronically controlled variable displacement pump.
- Continuous and automatic speed variation, from zero to maximum speed, solely with the accelerator pedal.
- Two-speed mechanical range gearbox.
- Inching-Control pedal to proportionately reduce travel speed whilst maintaining high engine speed for hydraulic operation e.g. during loading operations.
- Finger-Touch system makes it possible to change between forward and reverse

direction with the driver keeping both hands firmly on the steering wheel.

- Permanent four-wheel drive.
- Portal axles ensuring excellent ground clearance.

## **Braking system**

- Disc service brakes on all 4 wheels, hydraulically operated and acting on the differential output shafts.
- Disc parking brake with automatic locking feature and hydraulic release control, acting on the main transmission shaft.

## **Hydraulic system**

- Variable delivery Load-Sensing pump.
- Maximum operating capacity: 108lpm.
- Working pressure: 210bar.

## **Electrics**

- 12V system with 100Ah battery and 90A alternator.
- Full road lighting and rotating beacon.
- Manual battery isolator switch (optional automatic switch).

## **Service capacities**

- Hydraulic oil: 95 litres
- Diesel fuel: 155 litres
- Hydrostatic oil: 12 litres
- Engine oil: 8.5 litres
- Coolant: 12 litres

## **Tyres**

- 400/70-20 (P 60.10) and 18-19.5 (P 72.10).

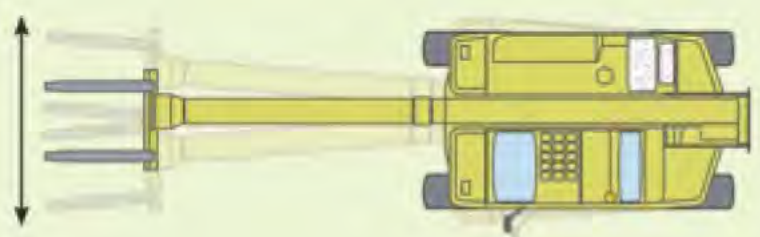
## **Available options**

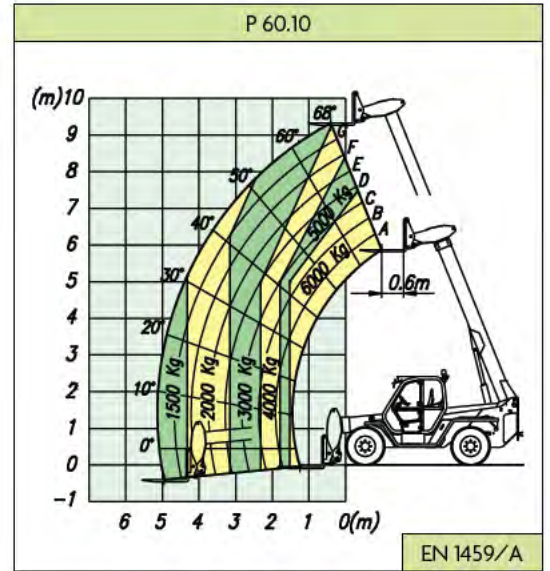
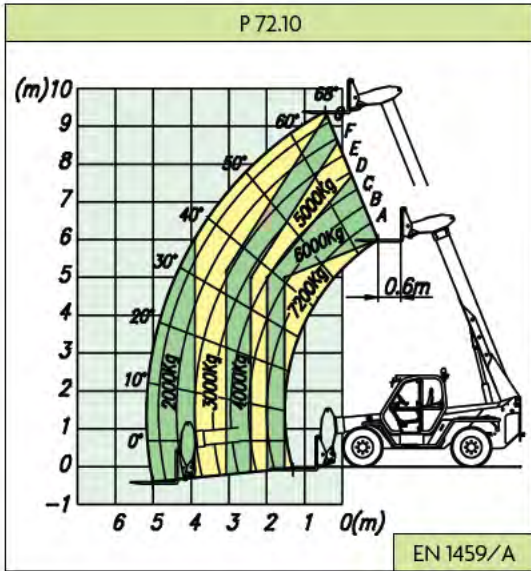
- Rear axle differential lock.
- Automatic battery isolator.
- Manual control air conditioning.
- Windscreen wiper on the roof window.
- Four working lights on the cab (two front lights and two rear).
- Pneumatic seat.
- BSS boom suspension system.
- Roof and front window mounted sun blinds.

## **Boom side-shift - a Merlo exclusive**

The integral chassis side-shift mechanism gently swings the upper part of the chassis, and with it, the telescopic boom across the longitudinal axis of the machine. The load can be precisely placed without repositioning the machine. Using the side-shift mechanism in no way detracts from the performance or stability of the Panoramic as it is an integral part of the design, not a mere attachment, and produces the following maximum sideways displacement.

PANORAMIC		P 72.10	P 60.10
Side-shift	mm	$\pm 250$	$\pm 250$

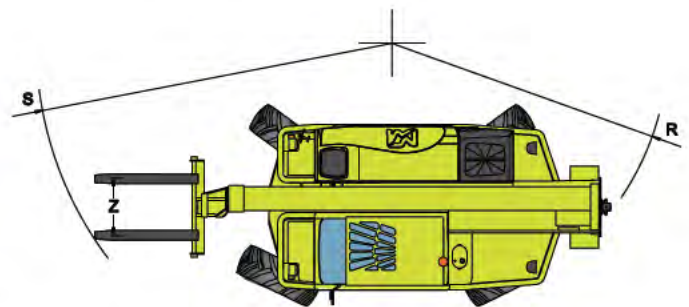
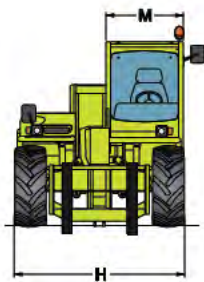
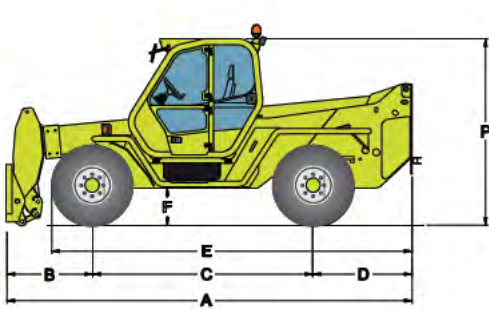




PANORAMIC		P 72.10	P 60.10
<b>Weight</b>			
Total empty weight (with forks)	kg	10500	9890
<b>Performance</b>			
Rated maximum load	kg	7200	6000
Maximum lift height	m	9.55	9.55
Maximum forward reach	m	5.5	5.5
Lift height at full capacity	m	6	7.8
Reach at full capacity	m	1.6	1.6
Capacity at full lift height	kg	4000	4000
Capacity at full forward reach	kg	2000	1500
Low emission (Euro 2) engine		turbo	
Power at 2400rpm (97/68/CE)	kW/HP	74.5/101	
<b>Speed ratios</b>			
1 <sup>st</sup> gear	kph	16	16
2 <sup>nd</sup> gear (self-limiting maximum speed)	kph	40	40

PANORAMIC		P 72.10	P 60.10
<b>Dimensions</b>			
A	mm	5345	5345
B	mm	1235	1235
C	mm	2875	2875
D	mm	1300	1300
E	mm	4645	4645
F	mm	480	480
H	mm	2240	2240
M	mm	995 <sup>(1)</sup>	995 <sup>(1)</sup>
P	mm	2440	2440
R	mm	3950	3950
S	mm	4970	4970
Z	mm	850	850

<sup>(1)</sup> Useful internal width



The side mounted engine ensures excellent accessibility for maintenance. Technicians can work in total safety with their feet firmly on the ground.



A comprehensive instrument panel can be read in all lighting conditions.



The optional air suspended seat ensures excellent comfort.





### **Help is always nearby**

Day after day, choosing a Merlo product brings the advantages of the most advanced technology and the practicality of safe and comfortable equipment, of which the very best can be expected.

Merlo Service ensures a close and continuing bond with the customer, provided by a worldwide network of more than 500 Service Centres guaranteeing experienced and trained technical assistance close at hand.

### **Building professionalism**

Evidently, carelessness and a lack of respect for the basic principles of safety are often the causes of accidents with lifting equipment, often through the lack of an adequate training scheme. The close link between training and safety is a part of everyone's experience and must be continually updated as part of our professional development, a role for which the new Merlo Research and Training Centre is admirably suited.



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PROVISIONAL DATASHEET

# P 120.10 HM

Extraordinary performances



Building with confidence.

# P 120.10 HM steel muscles.

The new Panoramic P 120.10 HM telescopic handler enhances the Merlo designing concepts because it ensures high-level performances maintaining reduced dimensions.

Even if the Panoramic P 120.10 HM is the more compact in its category, it can lift up to 12 tons and reach operational heights of up to 10 meters.

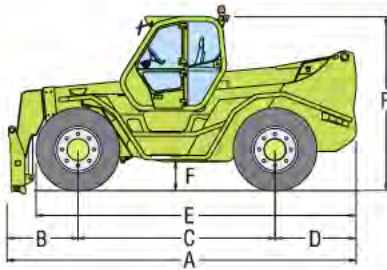
This machine has been specifically designed to enhance operational performance levels and to ensure highly effective solutions in all heavy-duty handling operations typical of sectors as those of cereals, of wood and of refusals.

The exclusive fittings further boost its intrinsic potential, of which the most important is the Merlin (Merlo Local Interactive Network) computerized system.

Thanks to this unique technology all operating parameters are analyzed by the main computer which elaborates them and ensure the highest safety in every moment in order to allow the operator to concentrate only on the job.

The hydraulic system has a single variable displacement piston pump with Load-Sensing control: this solution permits the regulation of the hydraulic oil flow to immediately adapt to the demands of the hydraulic services auctioned, even at low engine rpm.



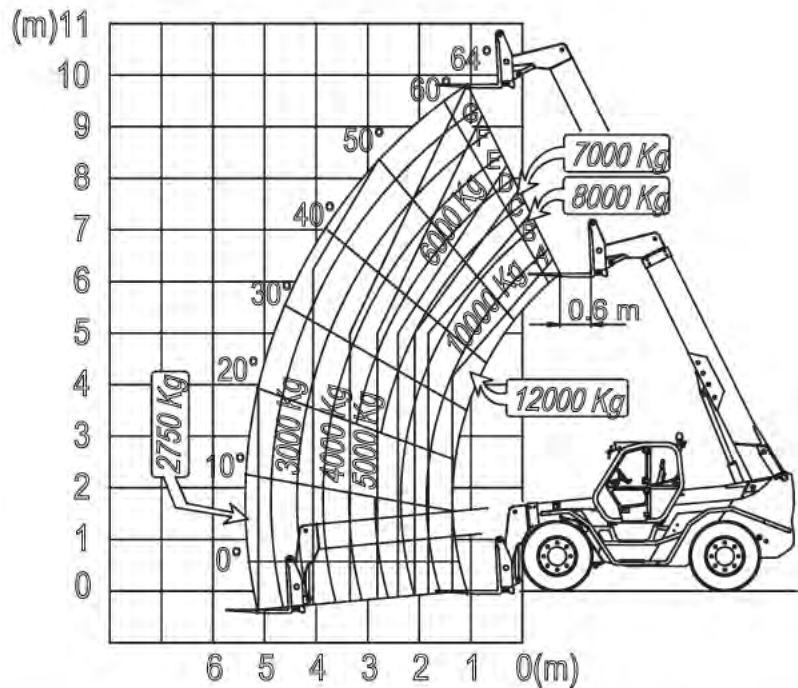


Dimensions	P 120.10 HM
A (mm)	5740
B (mm)	1165
C (mm)	3240
D (mm)	1335
E (mm)	5235
F (mm)	450
H (mm) <sup>(1)</sup>	2400
M (mm) <sup>(2)</sup>	995
P (mm)	2850

<sup>(1)</sup>Machine width.

<sup>(2)</sup>Internal width of the cabin.

#### PANORAMIC P 120.10HM



Characteristics and performances	P 120.10 HM
Total empty weight with forks (kg)	15650
Maximum rated capacity (kg)	12000
Maximum lift height (m)	9,8
Maximum forward reach (m)	5,7
Maximum height at maximum load (m)	6,4
Forward reach at maximum load (m)	1,4
Lift capacity at full lift height (kg)	5000
Lift capacity at maximum forward reach (kg)	2750
<b>Engine</b>	
Low emission engine (Euro 3)	6 cylinder turbo
Power at 2300 rpm (kW/CV)	107/145
<b>Maximum speed</b>	
1 <sup>st</sup> range	16
2 <sup>nd</sup> range (self-lifting speed)	40
<b>Accessories</b>	
Hydraulic distributor on the boom	●
Radio-control for lifting operations	○
Cab mounted working lights	○
Front screen protection	○
Prearrangement for 2 hydraulic services	○
Antitheft system with immobilising device	○
Air conditioning	○

● Standard ○ Option

#### Cab

In compliance with ISO 3449 (FOPS) and ISO 3471 (ROPS) directives.

#### Boom

Telescopic with sections sliding on adjustable anti-friction pads. Integrated hydraulically operated device for side shift.

#### Tool-carrier carriage

Hydraulic quick coupling/detachment device directly controlled from the cab.

#### Steering

Four wheel steer, with three steering modes selected from the cab.

#### Engine

6 cylinder turbo intercooler diesel engine, with water cooling and rated at 107 kW (145 HP) at 2300 rpm (97/68/CE).

#### Transmission

Hydrostatic with electronically regulated variable displacement motor. Finger-Touch system which permits change in driving direction even when the machine is moving, without the operator having to remove his hands from the steering wheel. Permanent four wheel drive traction.

#### Brakes

Hydraulically controlled oil immersed disc service brakes. Automatic hydraulic park brake with hydraulic release feature.

#### Hydraulic system

Load-Sensing type. Variable displacement axial hydraulic pump. Maximum flow: 144 l/min. Service pressure: 230 bar.

#### Capacities

Hydraulic system: 180 l  
Fuel tank: 185 l  
Hydrostatic oil: 12 l  
Engine oil: 12 l  
Engine cooling: 12 l

# Merlo Group power of ideas.



Powder painting.

'Merlo' is synonymous with advanced technology in the world of telescopic handlers and operated plant, and its history is one of ideas and innovation.

Not without reason do Merlo machines represent the perfect integration between the most diverse handling problems and the most innovative and productive technical solutions.

It means focussing on a single project and all the contemporaneous ones, on ideas and results, on designing to win, proposing innovative solutions, anticipating applications and possible changes in a very competitive market.

This winning attitude is to be seen in the drive for an integrated production process, in modern construction methods, automatic processes, integrated electronics, robotics and in many, many other ways.

The will to always maintain a closer bond with our users is reflected in programmes for training and updating personnel, in after sales service, and in the confidence of our dealers and salesmen.

And the results are compact and productive machines assuring unequalled levels of comfort, efficiency and safety.

That is the strength of the Merlo Group.



Building with confidence.



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HM - G



The supremacy of ideas.



# PANORAMIC

P 101.10 HM

P 80.9 HM

P 65.14 HM

P 45.18 HM



MERLO

BANDAMIC  
TOPDOWN

MERLO

# PERFORMANCE AND VERSATILITY



## **High tech excellence**

The HM series of PANORAMIC handlers further demonstrates that Merlo comes top in the innovative technology stakes. These machines have been specifically designed to enhance operational performance levels and to ensure highly effective solutions in all heavy-duty handling operations. The exclusive fittings further boost its intrinsic potential: the Load-Sensing hydraulic system with regenerating device is top-of-the range in terms of operating speed and efficiency, a

further performance enhancing feature is the six-cylinder turbocharged engine.

The MERlin system for the automated monitoring of all machine functions goes to further illustrate the advantages of the Merlo machines, and the company's commitment to offering the best in high-tech solutions which are the result of ongoing research and innovation, with the added guarantee provided by over forty years experience in the field.

# EXCLUSIVE TECHNOLOGY

## Power where it is needed

A double acting hydraulic distributor with quick couplings is a standard fitting for hydraulic service feed at the boom end.

## Outstanding versatility

The front tool-carrying carriage complete with hydraulic attachment locking ensures fast attachment changes controlled directly from the cab.

## Total protection

The telescopic boom extension components are located inside the boom to guarantee maximum protection and reliability.

## Boom sideshift

An exclusive feature enabling sideways movement of the chassis and telescopic boom allowing precise load placement.

## Side engine

The 6-cylinder turbo intercooled engine compliant to Euro 2 standard, ensures excellent power ratings and high performance.

## Complete control

The cab has a large glass area to ensure constant and complete visibility of the working area even at maximum working height.

## Energy savings

Thanks to the Load-Sensing variable displacement pump hydraulic system.

## Frame levelling

Hydraulically operated, allowing the machine and boom to be levelled for safer lifting on uneven ground.

## Hydrostatic transmission

Transmission of choice when high levels of precision and comfort are required.

## Safety first

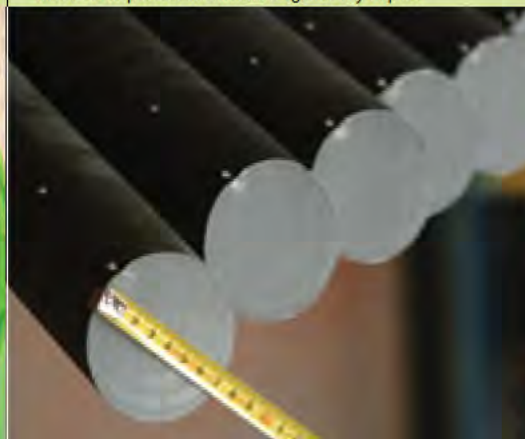
The longitudinal stability system with overload lock-out ensures operating safety.



The MERlin - Merlo Local Interactive Network has been conceived to visually monitor all machine functions - the advantages being clear in terms of efficiency, safety and performance levels.



The machine chassis is surrounded by a solid ring of steel, 70 mm in diameter, which serves an important structural function but also acts to protect the machine against any impact.



For Merlo 'specialization' means following every aspect of production and researching innovative solutions, even down to the smallest details: a winning production strategy.



The HM series of PANORAMIC models offer high lifting capacities of up to 10 tonnes. These exclusive features ensure maximum performance and comfort levels in even the most demanding operating environments.

#### **The ultimate in safety**

The on-board safety system ensures automatic and continuous monitoring of machine longitudinal stability in all operating conditions, giving the operator peace of mind to concentrate on the job at hand.

#### **Incomparable unloading heights and operational stability**

Top performance in all working conditions, and particularly in the handling and loading of loose materials, make the HM series of PANORAMIC handlers a valid alternative to traditional loaders.

#### **Ergonomic controls and clear instrumentation**

All the controls are both easily accessible and intuitive. The digital control panel includes a series of convenient analogue indicators for the easy and instant checking of machine operating parameters.

#### **Total visibility**

From the operator's position, working area visibility is always excellent.

#### **Optimum comfort**

The design of the machine is focused on driving comfort. The operator having the advantage of one of the widest cabs currently available on the telescopic handler market.

#### **Excellent manoeuvrability**

The unique compactness of the machine is the result of the integrated design of all its components. Making it truly top-of-the-range in terms of handling ease and operating accuracy, with the added advantage of a truly dynamic engine.

#### **Maximum accessibility**

The location of the engine, the transmission and the hydraulic systems make for extremely easy maintenance and assistance. The service technicians can work in total safety with their feet firmly on the ground.

#### **Enhanced performance**

The machine has been designed to ensure enhanced performance in even the toughest working conditions thanks to its high operating speeds, precision, operating potential and its great versatility.



#### **The PANORAMIC HM series offer much more**

- Deluxe cab
- Intercooler Euro 2 turbo engine with 6 cylinders rated at 107 kW (145 HP)
- Load-Sensing hydraulic system with regenerating device
  - Boom side-shift
  - Frame levelling device
- The electronic MERlin monitoring and control system
  - Electronically controlled hydrostatic transmission
    - Maximum speed of 40 kph (self-limiting)



Handling



Loading



Lifting



# INSTRUMENTS AND CONTROLS



## **The latest in comfort - a truly spacious and comfortable driver's cab**

The cab has been conceived to ensure the highest levels of safety and comfort, the ultimate in high-tech ergonomic design. The structure complies with ISO 3449 (FOPS) and ISO 3471 (ROPS) directives, both the driving wheel and the seat are adjustable to suit individual driving needs, whilst the road driving controls are designed so that they can be used without removing hands from the wheel. The whole arrangement complies with the latest concepts in driver ergonomics and functionality. The joints in the glass and window seals are slimline in order to increase the transparent surface area and the interior dimensions are one of the most spacious on the market.

An automatic air conditioning system is available as an option.

- ① MERlin system display
- ② Interactive control panel
- ③ Forward/reverse selector
- ④ Gear selector
- ⑤ Electronic multi-function joystick
- ⑥ Emergency stop button
- ⑦ Storage compartment

Electrical gear change control with switch conveniently positioned alongside the steering wheel.



The Finger-Touch forward/reverse control makes it possible for the operator to change driving direction without having to remove his hands from the steering wheel.



The electro-proportional joystick permits the variation of the boom lifting and extension speed according to the weight of the load being handled.



# MERlin

Integrated Control System

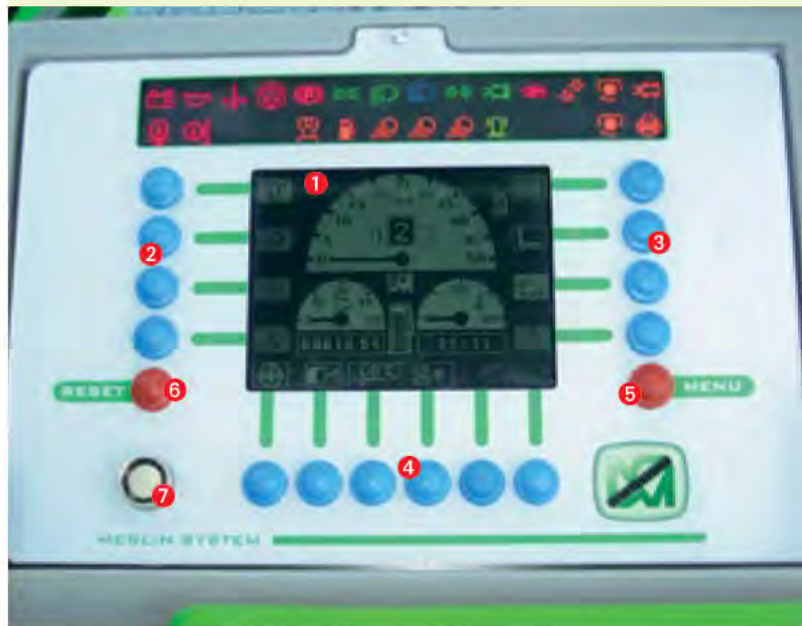
## The MERlin System

The MERlin – Merlo Local Interactive Network system is an advanced means of computerized monitoring of all machine functions, the traditional dashboard has been replaced with a LCD display and functional control panel which displays all the necessary information required by the operator. The heart of the system is a computer which processes in real time all input and output signals from the various operating units of the machine.

The operating conditions of these components are constantly displayed on the screen, so that their function can be easily checked at any time.

- Full control of all the safety functions.
- Displays a comprehensive picture of all the operating parameters.
- It is a sophisticated advanced and remote diagnostics device.
- It can provide an anti-theft and immobiliser system, guaranteeing extra security against theft.

The operating software makes it possible to select from various interactive screen displays, for access to the various system functions.



## Total control

Controls of devices managed by the MERlin system have been regrouped into a wide panel easily reached by the operator's right hand. The selection of the different menus is made through the switches which can be easily activated even with working gloves.

## Controls

- 1 LCD screen
- 2 Buttons controlling electric devices
- 3 Buttons controlling auxiliary devices
- 4 Operator environment control buttons
- 5 Button to change operating menu/screen
- 6 Reset button
- 7 Electronic key access port

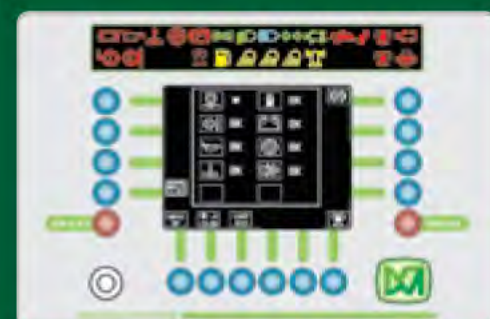
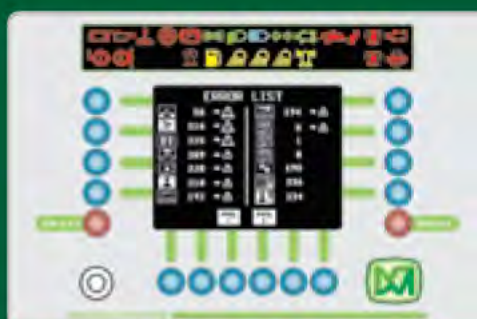
## Regenerating device

The operator can adjust the boom lifting speed simply by adjusting the joystick. Therefore it is possible to half the working times with less delicate loads and increase the productivity.

**Service Menu**  
It acts as a 'black box' that records all the incoming information from all the various systems and also acts to remind the operator of maintenance schedules and deadlines.

**Check-Up Menu**  
The operator has access to all the necessary information on the functional state of the various components at the simple touch of a button.

**System Check Menu**  
There is also a summarizing screen display which shows the functional state of each element that has been checked for detailed on-board diagnosis.



# THE WINNING CONCEPT



## The side mounted engine

The 6 cylinder turbo intercooler Nef low emissions engine in accordance with Euro 2 directive, is liquid cooled and has a power rating of 107 kW (145 HP) at 2300 rpm.

The engine offers increased power and torque ratings throughout the entire functional range.

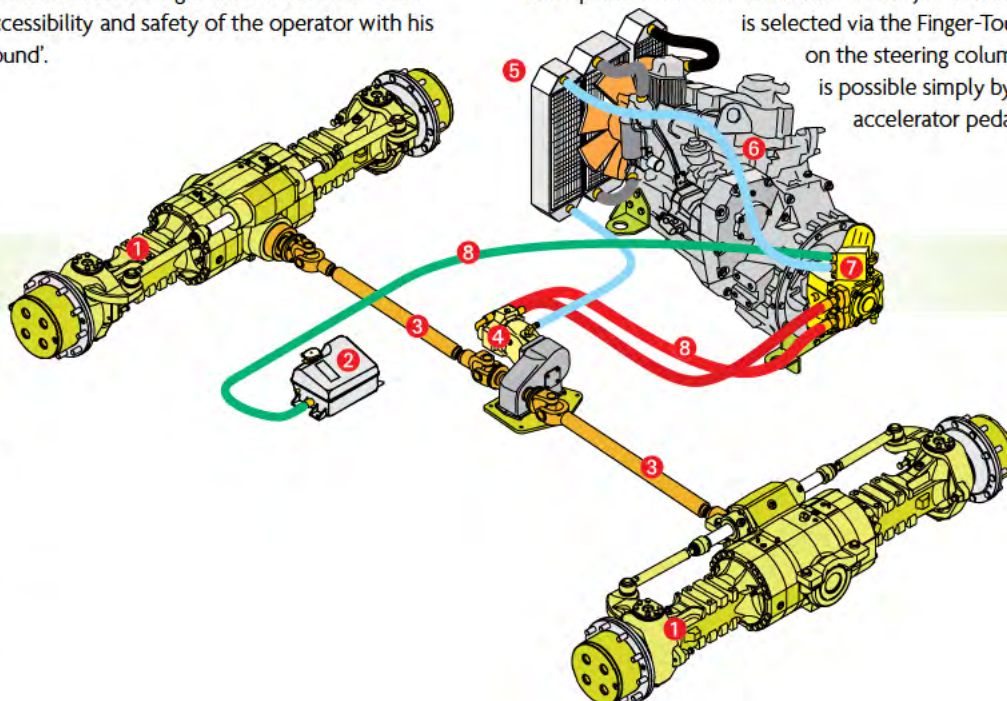
The engine group is positioned on the right side of the chassis for convenient service accessibility and safety of the operator with his feet 'firmly on the ground'.

## The latest high-tech hydrostatic transmission

This type of transmission ensures the highest performance levels and a wide range of speed adjustment at full power.

The infinite range of speed settings can be obtained simply by pressing the accelerator pedal, which means that there is no need for the continuous gear changes as in a traditional mechanical system, leaving the operator free to concentrate on the job at hand. Driving direction

is selected via the Finger-Touch control mounted on the steering column, while speed control is possible simply by pressing the accelerator pedal.



- 1 Axle
- 2 Hydraulic oil tank
- 3 Propshaft
- 4 Hydraulic motor
- 5 Heat exchanger
- 6 Diesel engine
- 7 Hydraulic pump
- 8 Hose



### **The telescopic boom**

The telescopic boom of the HM range of the PANORAMIC handlers is made up of two sections of high-yield steel formed in a U shape, which are longitudinally welded together on the neutral axis. Advanced research into ever more efficient solutions has led to the development of a hydraulic extension system which simultaneously controls the movement of all boom sections. All the components, the hydraulic hoses and electric cables are internally mounted to ensure maximum protection against site damage.

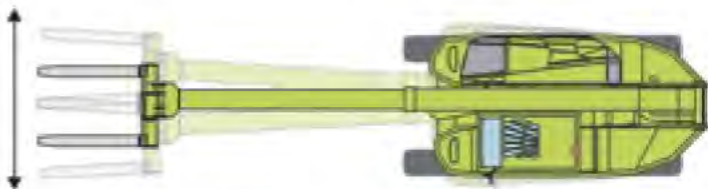
### **Frame levelling device**

This hydraulically operated levelling device acts on the front axle allowing the machine to adapt to specific ground conditions and lift in safety. The system allows lateral correction up to  $\pm 8\%$ .

### **Boom side shift - Merlo exclusivity**

The upper part of the chassis together with the telescopic boom can be shifted sideways in relation to the longitudinal machine axis in order to reach the required position with the greatest possible accuracy, without having to re-position the handler itself. The use of the integrated side-shift in no way impairs machine lifting performance and is available throughout the machine loading diagram without deration, whatever the extent of the shift made.

<b>Side shift</b>	<b>P 101.10 HM</b>	<b>P 80.9 HM</b>	<b>P 65.14 HM</b>	<b>P 45.18 HM</b>
Boom extended mm	$\pm 185$	$\pm 170$	$\pm 375$	$\pm 440$
Boom retracted mm	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 120$

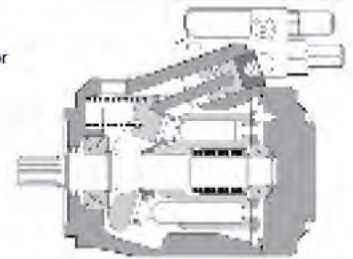


### **The Load-Sensing hydraulic system**

The hydraulic system has a single variable displacement piston pump with Load-Sensing control, which is directly mounted on the diesel engine.

This system permits the regulation of the hydraulic oil flow to immediately adapt to the demands at any given time. The oil flow is always equal to the request made by the control joystick stroke so that power wastage is reduced to a minimum. The advantages being reduced power consumption and longer component life. Smooth and accurate operations are also ensured thanks to its compensated hydraulic distributor.

The axial piston pump with Load-Sensing control ensures a rapid response to all operator requirements.



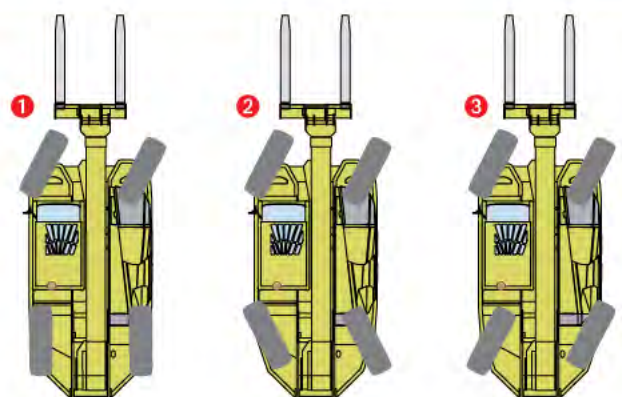
### **Four-wheel braking**

The oil immersed disc service brakes are hydraulically controlled and servo-assisted, and are positioned within the axle. The braking system is on both axles for maximum operating safety. The 'fail safe' parking brake is automatically engaged upon engine shutdown and is released when switched on again. The operator can also activate the park brake as and when required.

### **Three- steering modes**

The steering of all four driving wheels is hydraulically powered. The operator has the choice of three steering modes.

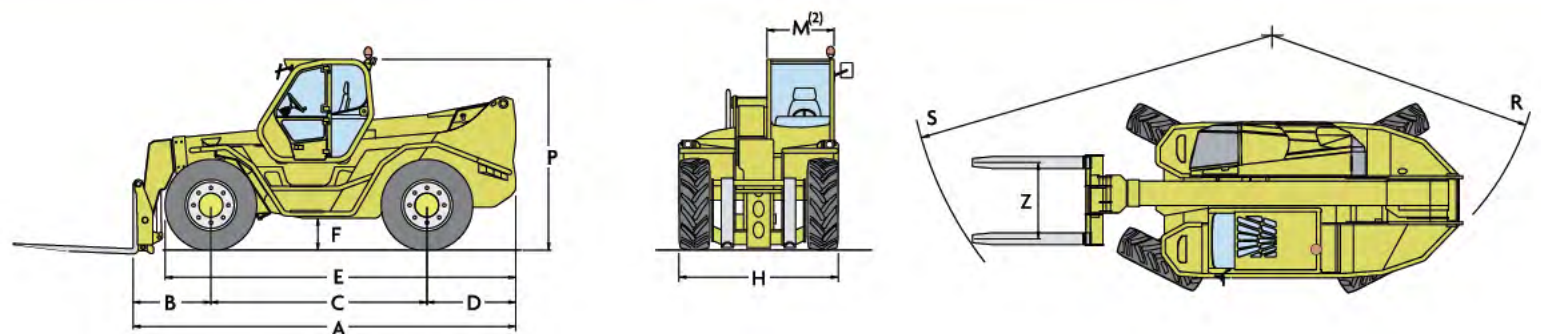
- 1 Front wheel steer (for road travel).
- 2 All wheel steer (for a reduced steering radius).
- 3 Crab steer (for lateral movement of the machine without any changes in the longitudinal alignment).



# PERFORMANCE AND DIMENSIONS



PANORAMIC		P 101.10 HM	P 80.9 HM	P 65.14 HM	P 45.18 HM	Dimensions	P 101.10 HM	P 80.9 HM	P 65.14 HM	P 45.18 HM	
<b>Weight</b>						A	mm	5740	5740	5910	6130
Total empty weight (with forks)	kg	15200	15100	15500	15400	B	mm	1160	1160	1335	1550
<b>Performance</b>						C	mm	3240	3240	3240	3240
Maximum rated capacity	kg	10000	8000	6500	4500	D	mm	1335	1335	1335	1335
Maximum lift height	m	9.8	9.1	13.9	17.8	E	mm	5235	5235	5235	5235
Maximum forward reach	m	5.7	5	9	13.2	F	mm	450	450	450	450
Maximum height at maximum load	m	7.1	7.5	10	10	H	mm	2400	2400	2400	2400
Forward reach at maximum load	m	1.8	1.7	3	4.3	M <sup>(2)</sup>	mm	995	995	995	995
Lift capacity at full lift height	kg	5000	5000	4000	2300	P	mm	2850	2850	2850	2850
Lift capacity at maximum forward reach	kg	2750	3000	1600	1000	R	mm	4300	4300	4300	4300
Low emission engine (Euro 2)		cylinder turbo intercooler				S	mm	5700	5700	5400	5440
Power at 2300 rpm (97/68/CE)	kW/HP	107/145				Z	mm	635+1170	635+1170	400+850	400+850
<b>Cycle times</b>						<sup>(1)</sup> With the regenerating device activated. <sup>(2)</sup> Internal width.					
Raise boom	s	9 <sup>(1)</sup> /19.1	9 <sup>(1)</sup> /19.2	7 <sup>(1)</sup> /16	10.9						
Extend boom	s	7.5	6.3	7.3 <sup>(1)</sup> /16.2	23.9						
<b>Speed</b>											
1 <sup>st</sup> range	kph	16	16	16	16						
2 <sup>nd</sup> range (self-lifting speed)	kph	40	40	40	40						







### **Help is always nearby**

Day after day, choosing a Merlo product brings the advantages of the most advanced technology and the practicality of safe and comfortable equipment, of which the very best can be expected.

Merlo Service ensures a close and continuing bond with the customer, provided by a worldwide network of more than 500 Service Centres guaranteeing experienced and trained technical assistance close at hand.

### **Building professionalism**

Evidently, carelessness and a lack of respect for the basic principles of safety are often the causes of accidents with lifting equipment, often through the lack of an adequate training scheme. The close link between training and safety is a part of everyone's experience and must be continually updated as part of our professional development, a role for which the new Merlo Research and Training Centre is admirably suited.



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