



HANDOVER GUIDE

MRT 2150
Privilege Range

 **MANITOU**
HANDLING YOUR WORLD

GENERAL CONCEPT

SPECS

1

- The MRT Privilege range is a **3 in 1 solution**: telehandler, platform, suspended load modes
- This machine can be **used on wheels or on stabilisers at 360°** to offer more **performances** and **versatility**
- It allows to **work in tight areas**, from the cabin, the platform or with the remote control
- **Multipurpose applications** with excellent **maneuverability** and **stability**
- **Rough terrain abilities** to lift, move and place loads



MRT 2150 P+

Max. lifting height (forks / platform)	20.6 m / Up to 23 m with a platform
Max. lifting capacity (on forks)	4 999 kg
Turret rotation	360 ° continuous
Max. reach	17.9 m
Stabilizers	Telescopic stabilizers (1 elements)
Weight	17 930 kg
Overall length (to front carriage)	6.87 m
Overall width (on tyres / stabilizers extended)	2.49 m / 5.58 m
Overall height	3.05 m
Engine	MERCEDES Stage IV / Final Tier 4
Power	156 hp - 115 kW
Transmission	Hydrostatic
Max travel speed	40 kph

HANDOVER PROCESS

FRONT

2



1. Road lights - **Safety on jobsites**
2. Scissors structure - **Great stabilization surface**
3. Telescopic stabilizers with length measurement to adapt the capacity - **Easy to use and adaptation to the environment**
4. Ground pressure detection (micro switches on telescopic section) - **High stabilization and safety**
5. Pentagonal boom - **Better precision and strength**
6. Connection for platform - **Easy to set up**
7. E-Reco system (recognition system) - **easy to set up the attachment, more comfortable and convenient**
8. Boom chains for extension and retraction are all inside the tubes - **Great protection and easier to maintain**
9. Dedicated elements to stow the machine on trucks - **Easy to transport**
10. Larger stabilization width (5.58m overall) - **More safety during heavy material handling**

> INCREASE SAFETY ON ROUGH TERRAIN CONDITIONS
> GREAT COMFORT OF DRIVING
> HIGH RELIABILITY & PERFORMANCE OF THE EQUIPMENT

HANDOVER PROCESS

LEFT

3



1. Cab access with **aligned steps for easier access**
2. Fuel and DEF tanks locker - **Secured to avoid fuel theft**
3. Oil tanks - **Easy access**
4. Locker behind the cab to store elements (remote control....) - **More comfort**
5. Cab door, bottom part in steel with electric window - **High strength & shocks resistant**
6. Optional air conditioning - **Better comfort in warm weather conditions**
7. Cab air filter and heater location (MRT 2150, 2550 and 3255) - **Easy to access**
8. Dana axles with multipurpose tyres - **Rough terrain performance**
9. Orange beacon for the road mode / Red beacon as an alarm indicator - **High safety factors**
10. Hydraulic oil level protected with a locker - **More safety and prevent from any persons to access it**
11. Low boom pivot point - **High visibility on the right side**
12. Robust attachment carriage - **High safety and no risk to damage it**
13. Low position of the couplers on the boom head - **Easy to set the attachment**
14. Easy access to the greasing point - **Easy maintenance and save time**

> EASY ACCESS & GOOD COMFORT
 > SMOOTH BOOM MOVEMENTS & HIGH RIGIDITY
 > HIGH SAFETY & ROBUSTNESS

HANDOVER PROCESS

RIGHT

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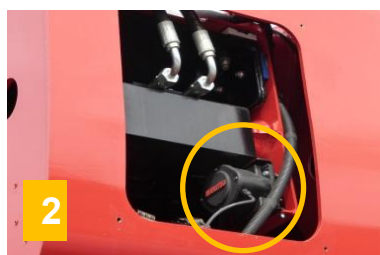
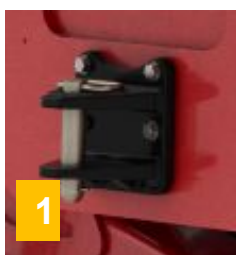
1. Engine bonnet in steel with locker - **High resistance to shocks and secured to avoid theft / Easy access to main components**
2. Access to jumpstart and batteries - **Easy access to save time**
3. Hydraulic line for attachment and tilting outside the boom - **Better maintenance access, save time and cost as the boom don't have to be disassemble**
4. New position of the boom on the right hand side - **Increase visibility and safety while handling materials / Very strong and robust boom**
5. Rear view mirrors - **High safety to see all the environment around the machine**
6. AEOLUS tyres - **Robust and rough terrain ability**
7. Important ground clearance affording more slope stabilization - **High stabilization surface for a better safety**

> GREAT VISIBILITY & ROUGH TERRAIN ABILITIES
 > GREAT MOVEMENTS RESPONSIVENESS & MANEUVERABILITY
 > SAVE TIME AND MONEY

HANDOVER PROCESS

BACK

5



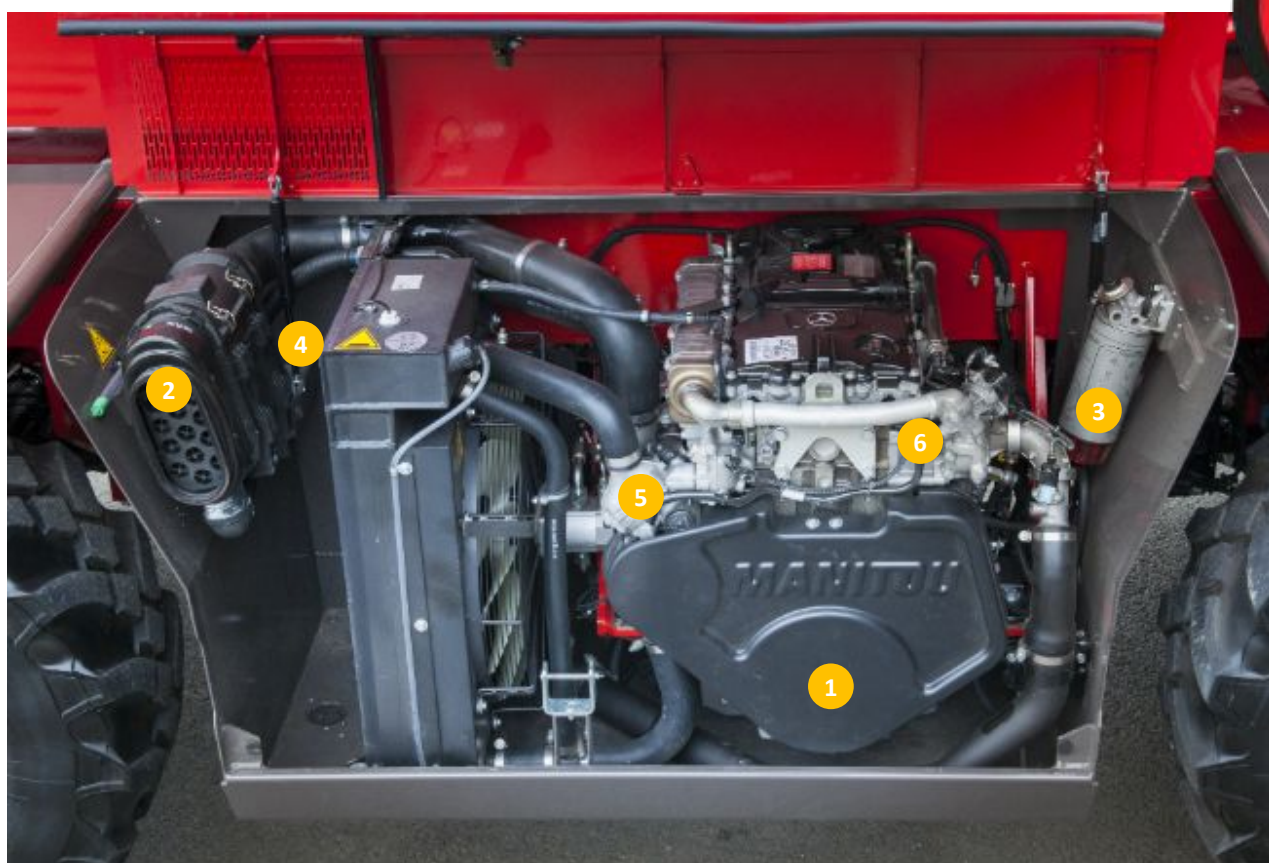
1. Towing points (1) - **Easy to transport**
2. Removable plate / Boom angle and length measurement system (2) inside the boom / Greasing points - **Easy to maintain and to access**
3. Telescopic stabilizers with large pads of 35 x 35 cm (3) - **Robustness and reliability**
4. Batteries - **Easy to access with a locker**

> ROBUSTNESS
 > RELIABILITY
 > EASE OF MAINTENANCE

HANDOVER PROCESS

ENGINE

6



1. Complete access around the engine
2. Air filter
3. Fuel Pre-filter
4. Suction for dust from cyclonic effect on air filter to radiator (automatic cleaning)
5. Engine oil filter position (behind the coolant pipes)
6. Engine fuel filter

> EASY ACCESS TO THE MAIN COMPONENTS
> SAVE TIME DURING DAILY MAINTENANCE
> RELIABILITY OF THE COMPONENTS

HANDOVER PROCESS

CAB & CONTROLS

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1. Seat
2. Joysticks
3. Switches
4. Heater / Air conditioning panel
5. Wheel drive with soft texture
6. Phone holder
7. Emergency stop button (easy access from seat)
8. Pedals
9. Display



LEFT JOYSTICK

(extension, rotation, attachments)

RIGHT JOYSTICK

(lifting, tilting)

Roller for the
attachment
hydraulic line



FNR switch

Switch to adjust
the speed of the
hydraulic
movements

Dead man switch

- ★ Two easy-to-use joysticks for a simultaneous control
- ★ Integrated transmission FNR (Front/Neutral/Reverse) on the right joystick
- ★ Acceptance button: movements under control
- ★ All controls are at your fingertips
- ★ Warning in case of incorrect operation, the operator can immediately correct any error
- ★ Turret locking inside the cab

> GOOD COMFORT

> EASY TO USE & HIGH PRECISION ON MOUVEMENTS

> ALL CONTROLS AT YOUR FINGERTIPS

HANDOVER PROCESS SWITCHES

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1. Remote control activation
2. Parking brake
3. Front left stabilizer
4. Front right stabilizer
5. Rear right stabilizer
6. Rear left stabilizer
7. Stabilizers movements selection
8. Stabilizers movements activation
9. Frame levelling
10. Eco mode
11. Transmission speed selection
12. Steering mode selection
13. Transmission override switch (Safety conditions) 
14. Emergency pump for platform
15. Override key (exclusion of safety system in case of overload) 
16. Telehandler / platform Mode selector (emergency condition with platform)
17. Restoring power supply (Emergency condition with platform)

A

B

C

D

E



- A. Up/Plus
- B. Down/Minus
- C. Home
- D. Escape
- E. Return

All machine functions are centralised

- All machine functions **are centralised on the dashboard** for simple and efficient use. All controls and menus **are illustrated by icons** to make it easier to remember their function and sequence.
- **The seven-inch TFT screen is positioned to the right** to make it easier to read the information in the driver's cab. The screen is intuitive with just a few easy-to-remember menus.

HANDOVER PROCESS

DISPLAY

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- **INTUITIVE DASHBOARD:** Centralised machine functions, few menus for a better memory, & work area setting up



Driving

All information on road and site driving is available in one place.

- Travel speed.
- D.E.F (Diesel Exhaust Fluid) and fuel level.
- Steering system.
- General engine information.



Work

All machine data on stability and safety is displayed on this screen.

- Stabiliser information (lowered lengths).
- Load positioning and stability.
- Reminder of machine slowdown settings.

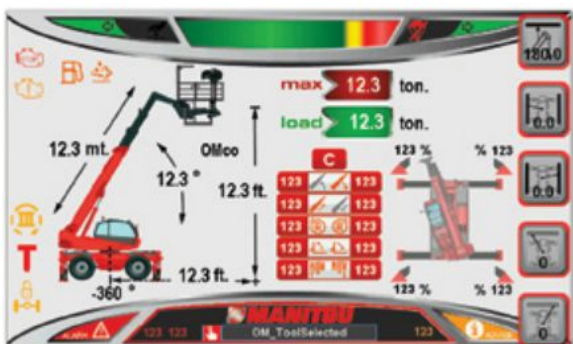
You can also restrict the work areas.



Speed

You can configure the maximum speeds for all machine movements.

- Four stored settings available.
- Independent settings for each movement.
- Option to amend the settings while the machine is in use.



Additional information

All screens will display stability data (upper section) as well as error codes and alarms (lower section).

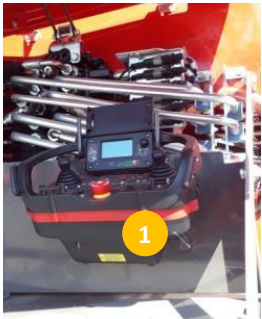
HANDOVER PROCESS

REMOTE CONTROL

10



1. Emergency stop button
2. Left Joystick (same movements as CAB)
3. Right joystick (same movements as CAB)
4. Movements switch
5. RPM switch
6. Movement speed selection
7. Optional or tilting selection switch
8. Multiple hydraulics movements "1-2-3" on boom head



1. Storage position (behind the cab)
2. S-KEY switching on radio control
3. Engine start-up enable and Horn push button
4. Validation button for attachments

5. Engine start-up
6. Platform connection plug
7. Emergency motor pump push button
8. Locker for platform position

HOW TO USE REMOTE CONTROL

Machine stabilized

Activate the switch on the cab (refer to page 9, n°1)

Disengage the emergency stop button, put the key (2) on the correct position

Push on the horn (3)

And crank with the engine start-up button (5)

You can do all hydraulics boom movements from remote control

HOW TO USE PLATFORM CONTROL

Machine stabilized

Connect the platform to the machine and to the panel

Disengage the emergency stop button, put the key (2) on the correct position

Push on the horn (3)

And crank with the engine start-up button (5)

You can do all hydraulics boom movements from remote control

> EASY TO USE

> HIGH EFFICIENCY WITH ALL CONTROLS AVAILABLE

> SCREEN WITH LOAD CHART AND ALARMS



MANITOU

HANDLING YOUR WORLD

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