



Simplicity, Versatility.....Performance !
NEW ROTO 19,21,25 m EVO GENERATION Stage IIIB



EVO

TR50190
TR50210
TR40250

MAINTENANCE APPLICATIONS



PICK AND PLACE APPLICATIONS



CRANE APPLICATIONS



CONTENT

- 1. What's new**
- 2. Base Specifications**
- 3. Base Configuration**
- 4. Stage IIIB technology**
- 5. Features & Benefits**
- 6. Options**
- 7. Attachments**

WHAT'S NEW



NEW

EVO

TR50190
TR50210
TR40250

Exterior & Interior
Electronics & Hydraulics
Performance & Engine
Safety & Efficiency Systems

CONTENT

1. What's new

2. Base Specifications

3. Base Configuration

4. Stage IIIB technology

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7. Attachments

Specifications Stage IIIB - Performance



		EVO		
		TR50190	TR50210	TR40250
Lift Height	m	18.7	20.5	24.1
Reach	m	16.4	18.0	20.5
Capacity	ton	5.0	5.0	4.0
Turntable Rotation	Deg	360°	360°	360°
Engine Brand		FPT - NEF SERIES 4.5 L		
Engine Standard		Stage IIIB / Tier 4i		
No of cylinders		4		
Engine Power	kW (HP)	105.0 (141)		
Maximum torque	Nm	590		
Transmission		Hydrostatic		
Max. Travel Speed	km/h	40		
Hydraulic Pump		Double gear pump w Servo-control		
Hydraulic Flow	l/min	135		
Working Pressure	bar	240		
Joystick		Electronic Sensi-touch		
Auxiliary Flow	l/min	75		
Fuel tank	l	180		

Specifications - Dimensions

		EVO		
		TR50190	TR50210	TR40250
Overall Width	mm	2380	2380	2380
Overall Length (forks frame)	mm	6760	7150	8000
Overall Height	mm	3025	3025	3025
Ground Clearance with std tyres (22.5")	mm	360	360	360
Wheelbase	mm	2950	2950	2950
External Turning Radius (at tyres)	mm	4430	4430	4430
Internal Turning Radius	mm	1700	1700	1700



CONTENT

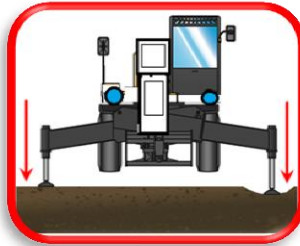
1. What's new
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Base Configuration

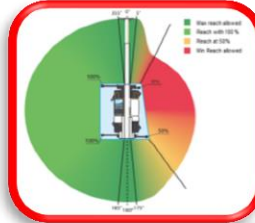
Stabs indicator



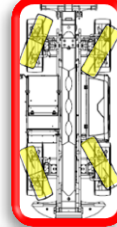
Auto Levelling



Smart Outreach control



Auto Steering alignment



Roof working lights



Double sensi-touch joystick



**Second
Aux Line**

**MP
Predispo**

Digital display



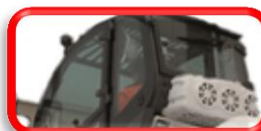
**Easy attachment
selection**



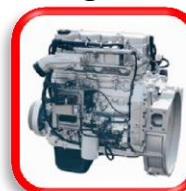
**Manual looking
carriage**



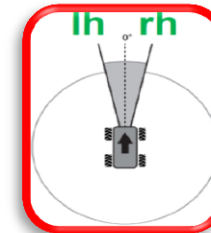
AC



Stage IIIB



**Operation angle
limit**



**Pneumatic
Suspension seat**



**Turntable speed
rotation**



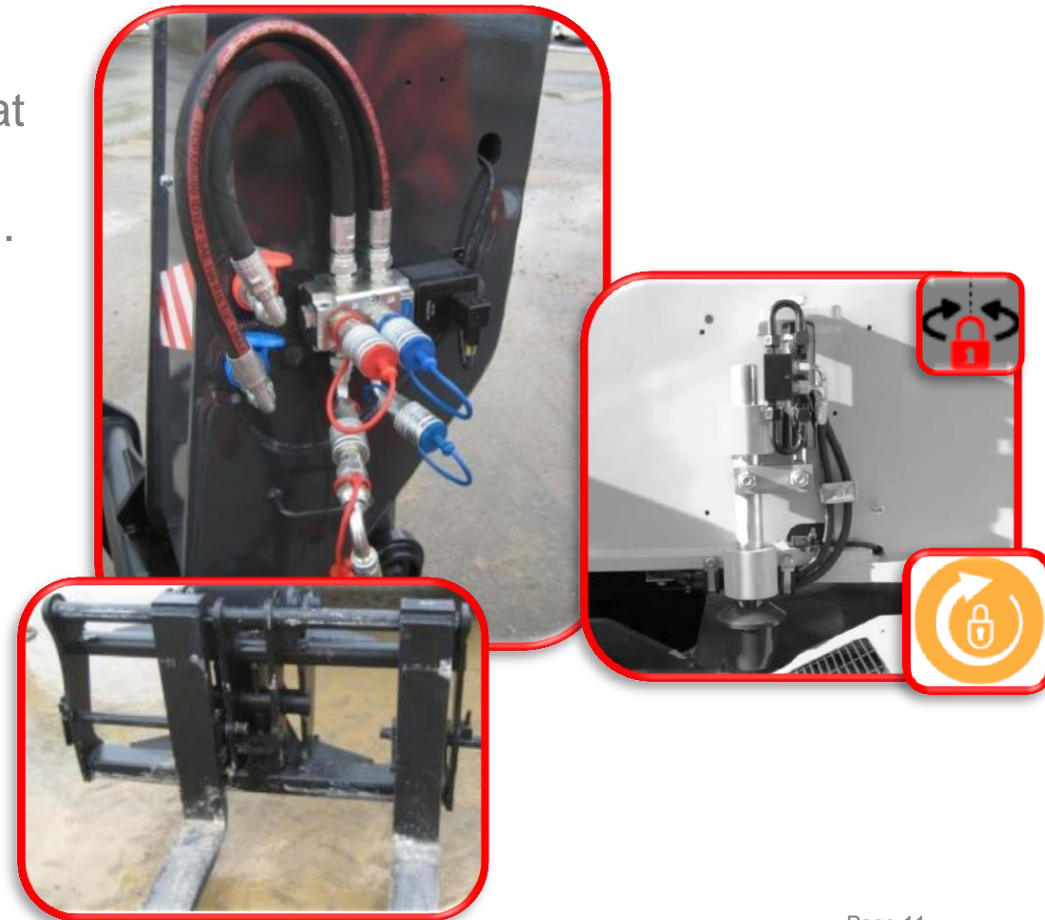
Base Configuration

EXTERIOR

EVO

- ✘ Double aux line + electric connection at boom head
- ✘ Hydraulic turntable rotation locking pin. operated by the Cab with light indicator on the display.
- ✘ Manual QC carrier installed

Premium configuration allows operator to be more efficient either on job site or driving on the road



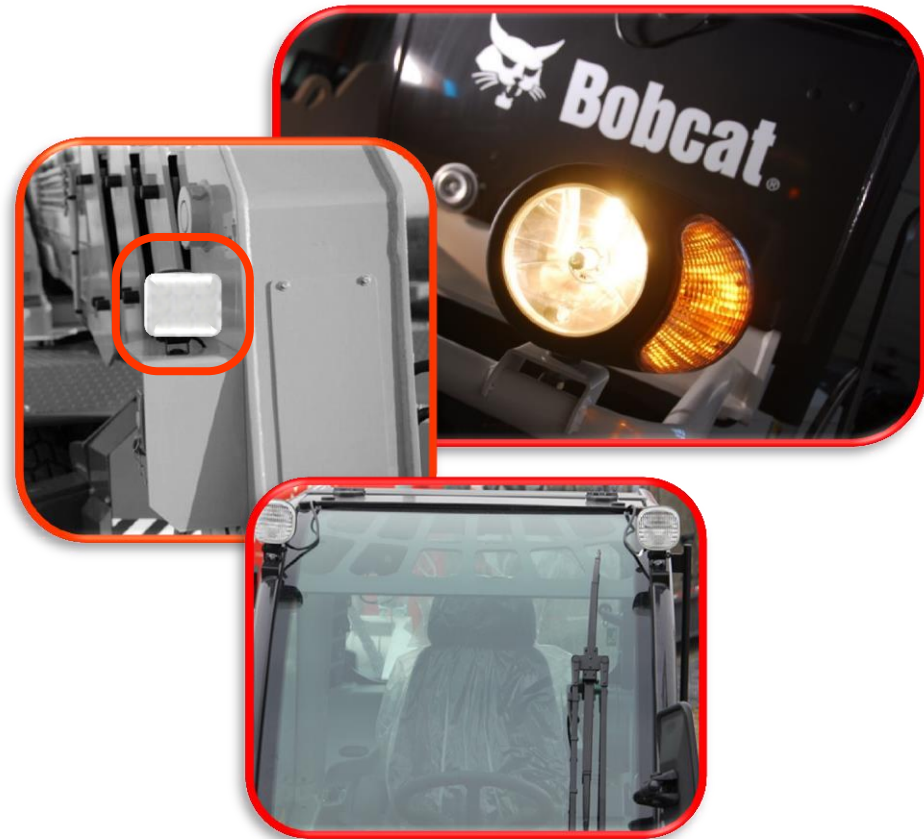
Base Configuration

EXTERIOR

EVO

- ✘ Road lights
- ✘ LED light on boom head
- ✘ Front Cab roof working lights (qty=2)

Outstanding lighting for operator safety & conform during long working journeys



Base Configuration

EXTERIOR

EVO

- ✦ Standard 18 x 22.5 in heavy duty tyres

All terrains tyres will ensure high performance with no limits to drive on roughs or muddy surfaces



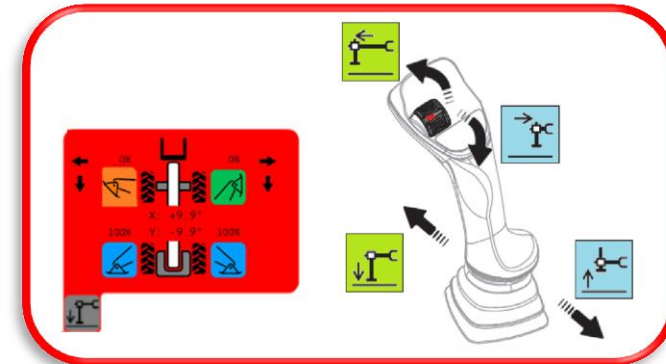
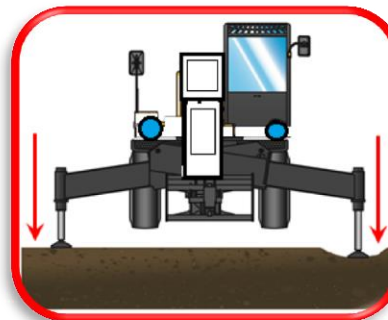
Base Configuration

EXTERIOR

EVO

- ✖ Two hand operation control and position indicator
- ✖ Independent Outriggers and Stabs functionality
Stabs and Outriggers can be operated individually or all at time to properly place the machine on the job site
- ✖ Auto – levelling system.
By pushing one button and moving the roller the machine goes automatically at level.

Easy and friendly stabs operation guarantee the proper machine position and safe operation in uneven terrains



Base Configuration

EXTERIOR

- ✘ MP & Winch pre-installation Standard
- ✘ Electric connector at boom head
- ✘ Turntable rotation 360° continuous
Allows operator to easy reach all around the working area and enhancing comfort and efficiency.

All boom installations are standard on **EVO** models to facilitate the proper attachments selection for a dedicated application



Base Configuration

CABIN

EVO

- ✘ New spacious comfortable cabin
- ✘ Adjustable steering wheel
- ✘ Radio CD player as standard
- ✘ Pneumatic suspension seat
- ✘ Joysticks integrated on the seat

EVO series is all about comfort.....
The new cab is designed with the operator at the forefront and aims to provide an exceptional work environment with a new level of comfort.



Base Configuration

CABIN

EVO

- ✘ Double Sensi-touch Joystick
 - ✘ Right _ Boom, Att , Aux functions + stabs
 - ✘ Left _ Tele & Turntable functions
- ✘ Turntable rotation independent adjustable speed

Advance electronics make a big step forward.... on boom and swing functions control. Smooth and precise movements are required to perform daily job accurately



Base Configuration

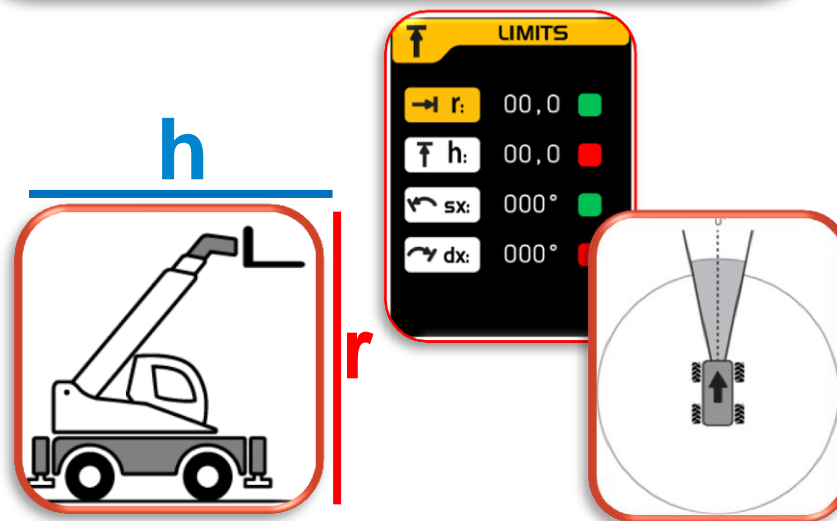
CABIN

- ✖ Digital Display
- ✖ Error coding available
- ✖ Machine stability info
- ✖ On time machine status
- ✖ Working area control limits.
 - ✖ High, reach and turntable position customization.

Advance electronics make a big step forward.... In a narrow working environments the reach limits can be set to ensure a safe work.



EVO



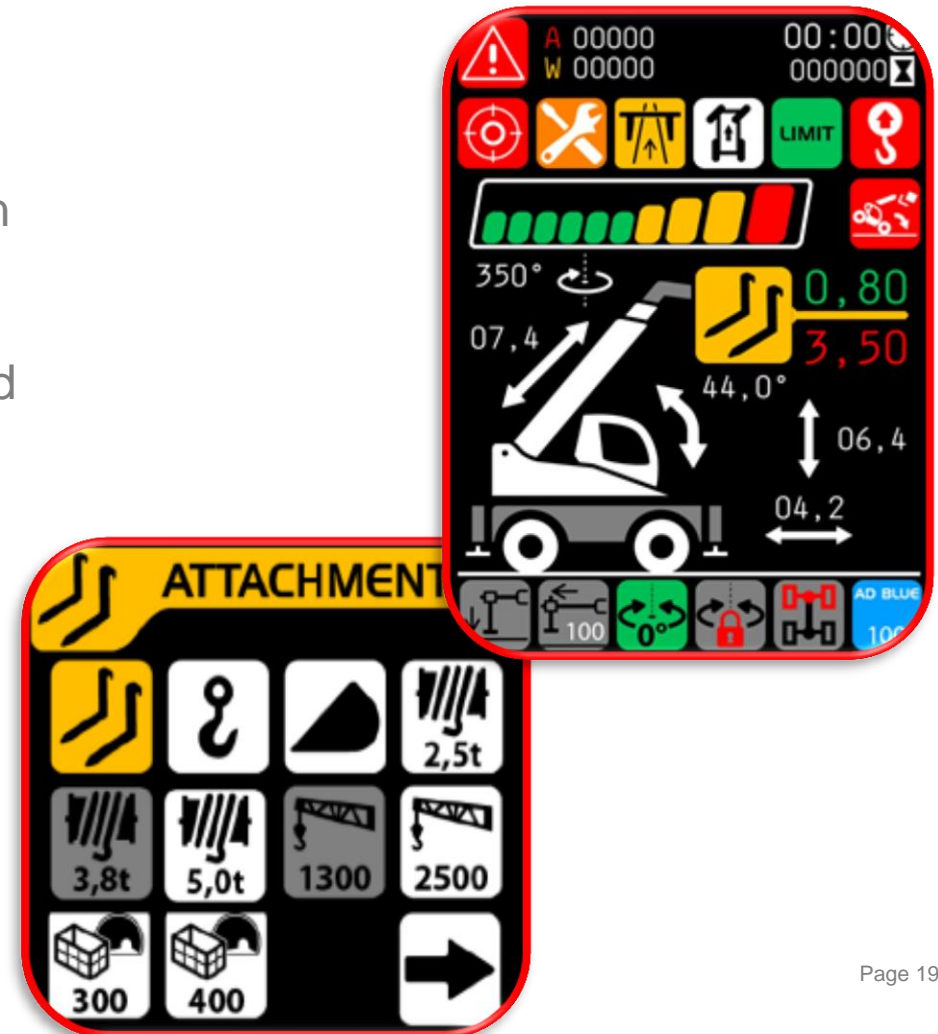
Base Configuration

CABIN

- ✦ Digital display includes functional operation information
- ✦ Boom position & capacity it is shown at all times
- ✦ All attachments configuration & parameters are included as standard

Advance electronics make a big step forward.... Operator it is informed on the machine status at all times & all functions are monitored

EVO



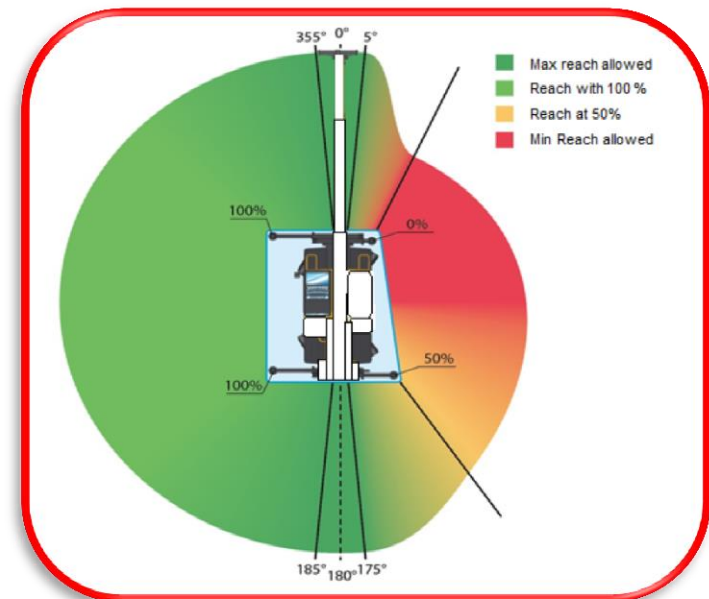
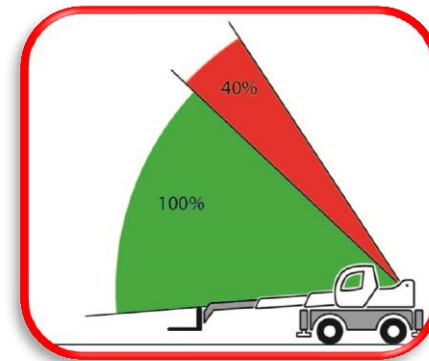
Base Configuration

PERFORMANCE

EVO

- ✖ Boom cushion standard
Self-managed, the system controls all boom functions reducing the speed when maximum position it is reached that allow the operator to be concentrate on the job an improve their efficiency
- ✖ Smart outreach control.
Allows the maximum boom extension around 360° based on outriggers position.

Advance electronics make a big step forward.... Operator take care on their job while the machine take care on the safety & stability ensuring maximum performance.



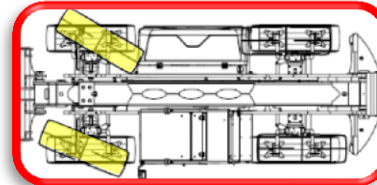
Base Configuration

PERFORMANCE

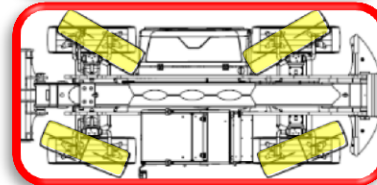


- ✦ Three steering modes
Road, Continues & Crab
- ✦ Auto steering alignment, standard

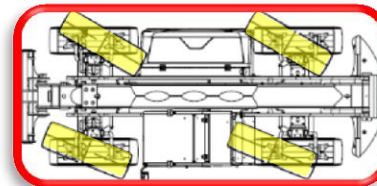
Easy accessibilities and maneuverability to difficult sites or with obstacles. Walls approach precision and safe drive on the road



2 front steering wheels
to guarantee on-road safety



4 steering wheels
for short turning radius on
restricted sites



Crab steering for lateral
approaches and delicate exits

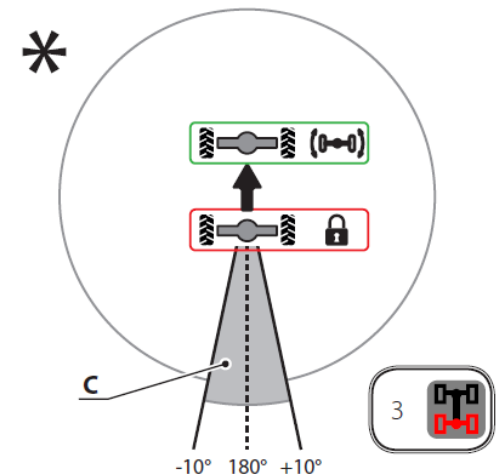
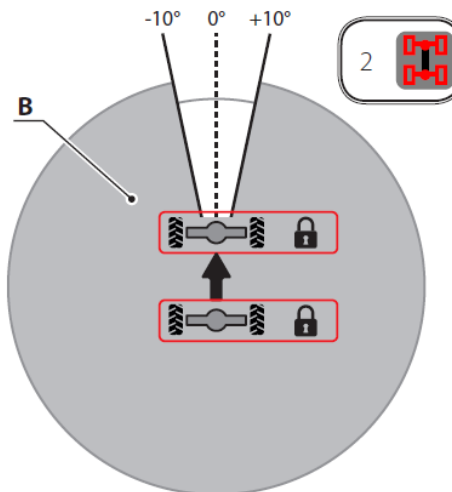
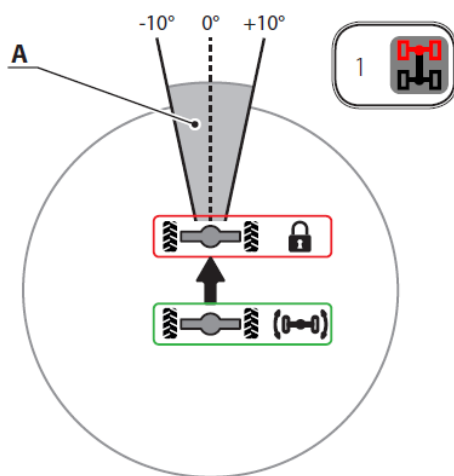
Base Configuration

PERFORMANCE

EVO

- ✎ Auto oscillating axle lock
 - A. Front axle (1) is locked when turntable is within $\pm 10^\circ$
 - B. Front & rear axles (2) are locked when turntable is beyond $\pm 10^\circ$ turned
 - C. Rear axle (3) is locked when turntable is within $\pm 10^\circ$ (180° rotated). * if equipped with direction sensitive option

The machine takes always the safer position by locking one or two axles when turntable is rotated.



CONTENT

1. Base Specifications

2. Base Configuration

3. Options

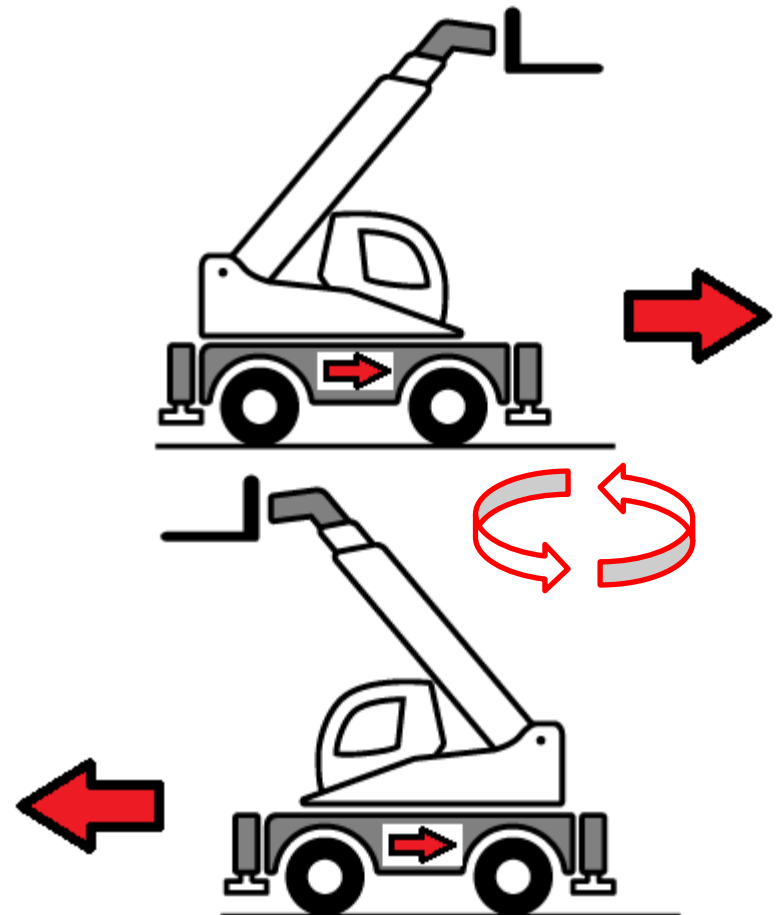
4. Attachments

Base Configuration

PERFORMANCE

- Travel direction sensitive
This optional system automatically inverts the drive and steering functions when turntable is rotated 180°. Operator don't have to worry about machine position while working, the machine do care automatically about.

Performance and safety additionally to a friendly use of driving functions are key to enhance efficiency



OPTIONS - Carriage

- Carriage with Hydraulic attachment look
- Counterplate p/n 7191915 it is required with forks

All carriage options available to ensure that all applications requirements are met.

- MB carriage Hydraulic attachment look
 - Side swing up to 14°
 - Available on 21 & 25 only
 - Compatible with Rotating MP 300 kg extendable & Extended jib L=2.5 -1.2 T

Model Codes

TR50190 EVO -- M2309#100

TR50210 EVO -- M2308#100

TR40250 EVO -- M2307#100

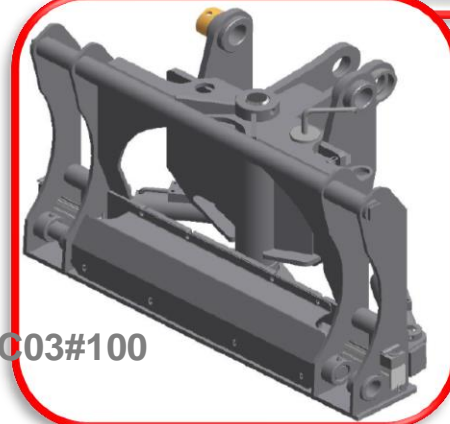
M230x-R07-C02#100



7191915



M230x-R07-C03#100



OPTIONS - Tyres

- Standard Heavy duty 18 x 22.5 in tyres
- Possibility to order one as a Spare - M230x-A23-C02#100

All terrain tyres to highly perform with all applications

- Optional 18 R 22.5 in tyres available
- Possibility to order one as a Spare - M230x-A23-C01#100

STANDARD

Heavy duty
18 x 22.5 in



18 R 22.5 in

OPTION



M230x-R09-C01#100

OPTIONS – CAB & Lights

ROPS & FOBS Cab including all light as safety devices needed to ensure operator conformability

- Protect windshield and operator from falling objects optional
- Roof mounted work lights. Two extra at the Rear (qty=4 total)
- Anti-theft immobilizer -M230x-A00-C10#100
- Cold start (engine water heater)
M230x-A00-C09#100
- Warm coolant from external source
(electrical plug) - M230x-A00-C08#100

M230x-A00-C05#100



M230x-R25-C02#100

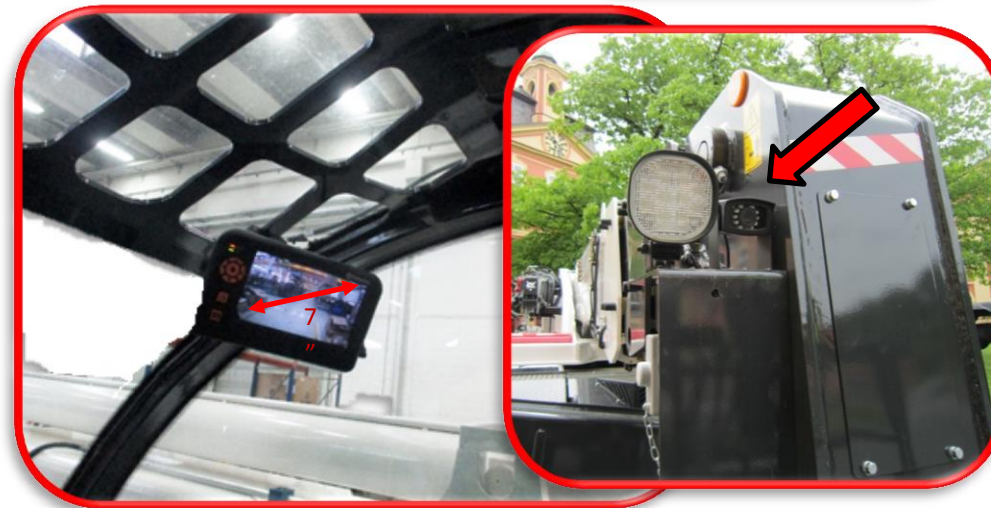
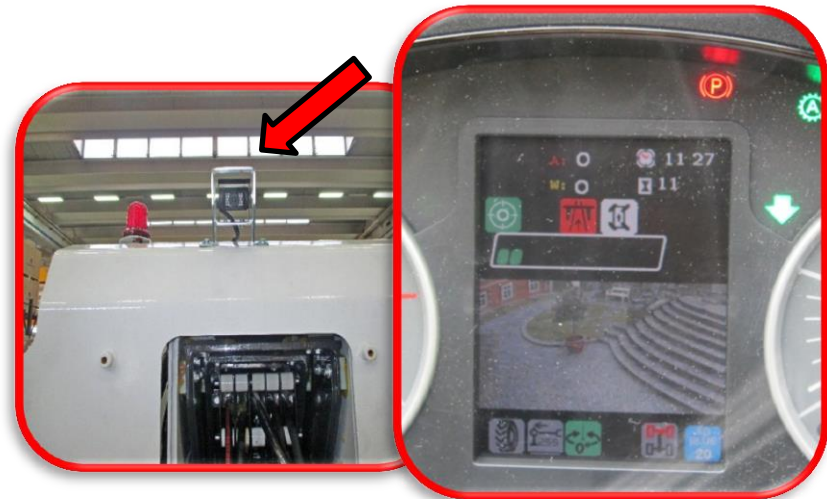


OPTIONS – Advance electronics

Outstanding visibility even improved by cameras to enhance operator efficient and safe operation

- Front and Rear onboard cameras
To make the operator job safer and comfortable a 7 & 3.5 in monitors are available at the cabin to accurately view front and rear working areas.

EVO



OPTIONS - Remote control

- Remote control available for all attachments
- Allow to remotely operate the machine out of the cabin for better visibility and control
- Proportional and simultaneous boom functions
- Multistep accelerator function available
- When Man Platform is installed the Remote Control should be placed inside the basket.

New RC allows multiple and simultaneous proportional functions. Adjustable rpm's at RC it is also possible



M230x-A00-C02#100



CONTENT

1. Base Specifications

2. Base Configuration

3. Options

4. Attachments

ATTACHMENTS

- **Man Platform**
 - ~ MP 120 x 215 cm. Capacity 300 kg w RC
 - ~ Fix -- > 725887
 - ~ Fix & Hy Extension -- > 7254889
 - ~ Rotating MP 120 x 215 cm. Capacity 300 kg w RC
 - ~ No Extendable -- > 7254891
 - ~ Rotating MP 120 x 240 cm. Capacity 300 kg w RC
 - ~ Hy Extension -- > 7254893
 - ~ Hy Extension MB carriage -- > 7276580
 - ~ Hy/manu extension up to 6m -- > 7276581
 - ~ Rotating MP 120 x 240 cm. Capacity 800 kg w RC
 - ~ Hy Extension -- > 7254895
- MP pre-installation ready included on Standard configuration
- All with Remote control device

7254887



7254891



7254895



ATTACHMENTS

- Pair of floating forks mm 120 x 45 L = 1200. Capacity 3.8 t
- Pair of floating forks mm 120 x 45 L = 1200. Capacity 5 t
- Pair of fork extensions L = 1900 mm for forks mm 120 x 45/50 jib
- Pallet forks extender with pair of forks
 - 7231858 -- > 3.8 t
 - 7226040 -- > 5 t
- Forks carriage backrest protection

7190344

7261738

7262040

ATTACHMENTS

- [illegible]



7191889



7191924

ATTACHMENTS

- JIB w crane extension + winch.
 - L= 1.3 m & 2.0 T capacity -- > 7254898
 - L= 2.5 m & 1.2.T capacity -- > 7254899
 - L= 2.5 m & 1.2.T c. MB carriage-- > 7276582
-
- Jib (crane extension) L = 2.5 m with hook
(Capacity 1.2 t)
-
- Hook mounted directly on for fork carriage with
the same capacity as the vehicle
-
- Winch for fork carriage double pull with rope guide
3.0 t -- > 7254901
 - 4.0 t -- > 7275191



7190466



7191877



7254901

ATTACHMENTS

- Positive/Negative jib with 200 Kg basket capacity
 - Specific extended jib with MP to reach places with difficult access
 - Pre-arrangement compulsory -M2306-A08-C02#100
 - No compatible w/remote control, attachment includes specific remote control
-
- Centering Handler
 - Specific tunneling applications
 - Pre-arrangement compulsory -M230x-A08-C01#100
 - No compatible w/ hydraulic attachment look





THANKS !