

THE NEW MIDI EXCAVATORS

85 SB – 90 ZT – 100 TR - EVOLUTION 2025



THE NEW MIDI EXCAVATORS

95 UR – 100 S-TR - EVOLUTION 2026



THE NEW MIDI EXCAVATORS 8,5 – 10 TONS **EVOLUTION 2025**



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OUR NEW MIDI RANGE, EVEN MORE EFFICIENT AND INNOVATIVE

- **NEW DESIGN.** The design of our new Midi has been improved and updated to bring it in line with our entire product range. The new engine hoods make our machines even more attractive; the repositioned air conditioning spoiler, standard LED strips, and new ballast weights contribute to the aesthetic renewal of our 8- to 10-ton models.
- **NEW TILTING CAB WITH A MODERN DESIGN.** The cab is anchored on 4S-Blocks in an oil bath, which further dampens vibrations during operation and offers the operator unprecedented comfort. The new tilting cab offers maximum accessibility for both routine and extraordinary maintenance.
- **NEW SPOILER POSITION.** The spoiler, which houses the air conditioning condenser, is now located at the rear, high part of the cab. The new position is the best solution for optimizing the supply of clean, cool air without obstructing visibility in any way.
- **ELECTRONIC MANIPULATORS.** New ergonomic soft-touch manipulators improve comfort and user-friendliness. This new feature allows all the machine's working modes to be controlled and adjusted with a simple setting on the on-board display.
- **REXROTH FOR THE ENTIRE HYDRAULIC SYSTEM.** After years of use in our skid steer loaders (e.g., 19SK and 20TL), Rexroth technology is now also being used in our midi excavators – with excellent results in practice. This innovation enables complete customization and the integration of a wide range of attachments.
- **FAN DRIVE as standard** (with hydraulic fan - reversible)
- **LED BARS integrated into the design of the engine hoods,** upper structure, and front and rear cab tops.

MODEL SETS A WHOLE NEW STANDARD AND CAN MEET ALL THE REQUIREMENTS OF THE HIGH-END USER:

- **EUROCOMACH is redesigning its highly successful 8.5-10-ton models. The proven features will remain intact - what was already very good will be even better!** The boom and undercarriage will remain the same.
- The 95 UR model will also be continued upon request! The need for a SB TR model is also being discussed. A 2-piece boom without an articulated boom? The superstructure is completely new – a new, modern design – in line with the Eurocomach 2025 family design.
- **Transversely positioned engine combined with the latest FAN Drive cooling system,** as in the 4.2-to-7.5-ton models.
- **Extremely comfortable, suspended, foldable comfort cab** optimizes maintenance and operator comfort and offers even more space.
- **Completely redesigned hydraulics** – with even more adjustment options – Bosch Rexroth EOC hydraulics with electric CANBUS control offer even more adjustment options (infinitely customizable with 3 engine mode and 4 work control mode settings).
- **A world premiere at Eurocomach: the so-called TRAVEL MODE and blade control via the joystick:** The entire machine can now be operated with the new Bosch Rexroth "Sense Plus" joysticks. (CAT control: Right joystick for driving – Left joystick for operating the superstructure and boom)Redesigned interior with a cell phone storage compartment and adjustable armrests.
- **4 transport fixing points (2 at the front and 2 at the rear)** for transport securing in the upper carriage



1. INTRODUCTION: NEW MACHINE STANDARD – MODELS 85 SB – 90 ZT – 95 UR – 100 TR

This machine sets a completely new standard by meeting all the requirements of the most demanding user:

While the undercarriage and booms remain unchanged, the turret has been completely redesigned. This has significantly improved performance, particularly the adjustment options and comfort:

- Machine with a traversal side-mounted engine concept (better maintenance access, more space for the operator in the cab, and a better cabin climate; less noise and less heat generation as the engine is completely separated from the cab)
- with an exceptionally high lifting capacity
- folding and soundproofed comfort cab with radio
- with: diesel refueling pump and air conditioning
- ENCON TYPE or Bosch Rexroth Sense Plus joysticks with 5 proportional switches, articulated boom and auxiliary circuits AUX 1 (standard), adjustable boom (100 TR) and AUX 2, and leakage oil line, and optionally with: AUX 3
- Infinitely customizable both in terms of setting options and equipment options such as operator color, track types, hydraulic accessories and attachments, etc.



1.1. PERFORMANCE FEATURES

New series with more power, more responsiveness, better cooling and more adjustment options.

- *Proven engine power: Yanmar - Turbo 4TNV98CT Stage V - Tier 4 Final with 3300cc EURO with integrated particulate filter*
- *Evolutionary eHPQ Rexroth hydraulic system*
- *Electronically controlled EOC pump and work mode setting (ECO-STANDARD-POWER - INDIVIDUAL): Compared to the previous series, even better coordination between work type, pump, and engine makes the machine even more responsive.*
- *Fan drive cooling system (viscous fan as in large machines) with automatic inversion and speed optimization and adjustment, compared to the previous series, even better cooling with significantly lower external noise.*
- *TIERA 7 display: with liter adjustment of all proportional rollers, in addition to AUX1, 2, and 3, also articulated boom, adjustable boom optional, auto-idle, particulate filter, and work mode management, electrical switching of AUX 1*



1.2. COMFORT FEATURES

New series with more comfort thanks to a larger cabin, a wider entry, better noise levels and even more working comfort.

- Larger, suspended, comfortable cab with wider entry and more headroom (compared to the previous series, the engine is now installed at an angle vertically, creating even more space).
- **Air conditioning now integrated into the spoiler improves the air quality for the user in the cab.**
- New soft-touch joysticks from the Scandinavian Encon type – Sense plus Bosch Rexroth.
- Fan-drive cooling system (viscous fan) with new louvre system (significantly lower external noise compared to the previous series).
- TIERA 7 display and more responsive hydraulic system provide greater working comfort through the selection of working modes (ECO – STANDARD – Power), electrical switching between AUX1, liter flow adjustment, etc.



1.3. EUROCOMACH GEOSERVICE (SEE DETAILS IN ANNEX 2)

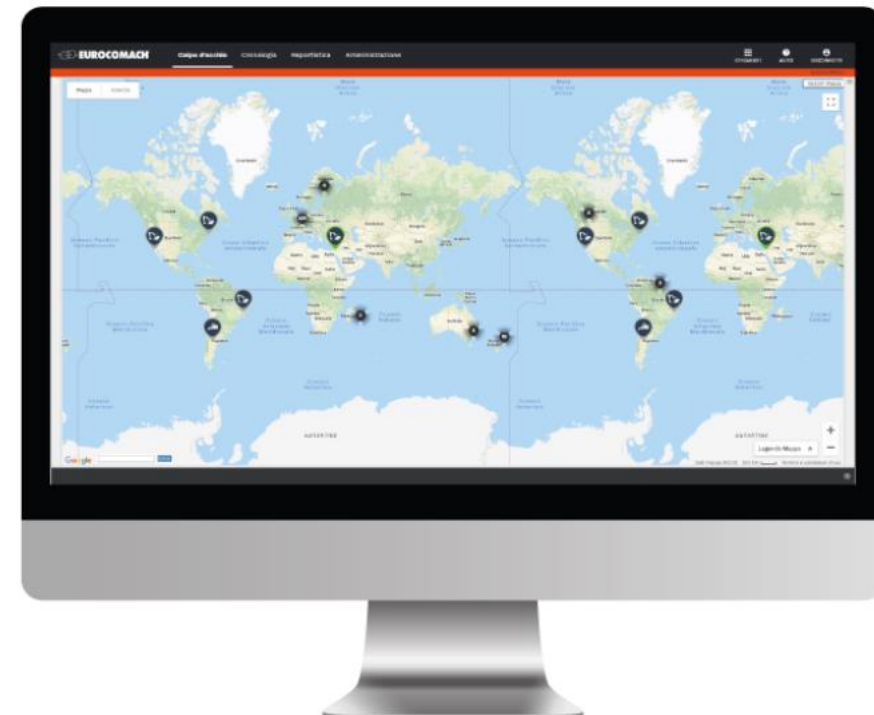
GEO-SERVICE

Geo-Service is a satellite control system capable of constantly monitoring the position, status and functions of machines at work.

Geo-Service allows to:

- Locate the machine's position
- Create a Log of machine travel
- Monitor actual working hours
- Monitor operating parameters
- Monitor malfunctions such as: high water temperature, low engine oil pressure, low hydraulic fluid pressure, clogged filters, etc.
- Receive alerts by SMS or e-mail
- Alert if the machine is moved with the engine off
- Set curfew alarms
- Set alarms on exit from a specific area

[Go to Geo-Service](#)

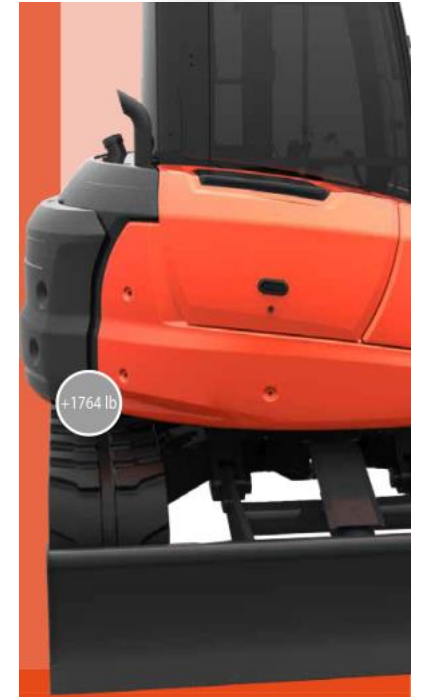


1.4. EUROCOMACH CUSTOMIZED SOLUTIONS

Let us tailor your excavator to your needs:

Under the motto ECS (Eurocomach Customized Solutions), you can choose from a wide range of factory options and configure your machine precisely to your needs.

- Personal colors, preparations for all types of hydraulic quick couplers, rear weights
- 6-way blade, additional weights, LED bars, etc.
- All types of attachments from the Eurocomach Attachments range





1.5. TRADITIONAL PLUS POINTS OF THE EUROCOMACH MIDI SERIES

- **Exceptional versatility in four versions** (mono boom with or without swing arm, adjustable boom, or with parallel adjustable boom). Two undercarriage versions (5, 6 rollers). Three rear weights (standard, internal, and external).
- **Low center of gravity**, wide track width, large cylinder diameters, and high working pressure facilitate excellent lifting capacities of: 2860 kg (blade up to 360°, 3 m, 0H).
- **Excellent visibility** (upward, to the tracks, and to the right of the blade). Electric diesel refill pump (standard).
- **Robust sheet metal hoods** and side panels with automatic support.
- **Customized paint schemes**. Refined details and finishes. Layout, support, and panels for all electrical and hydraulic circuits are well-finished for long-term use and long-term value retention.

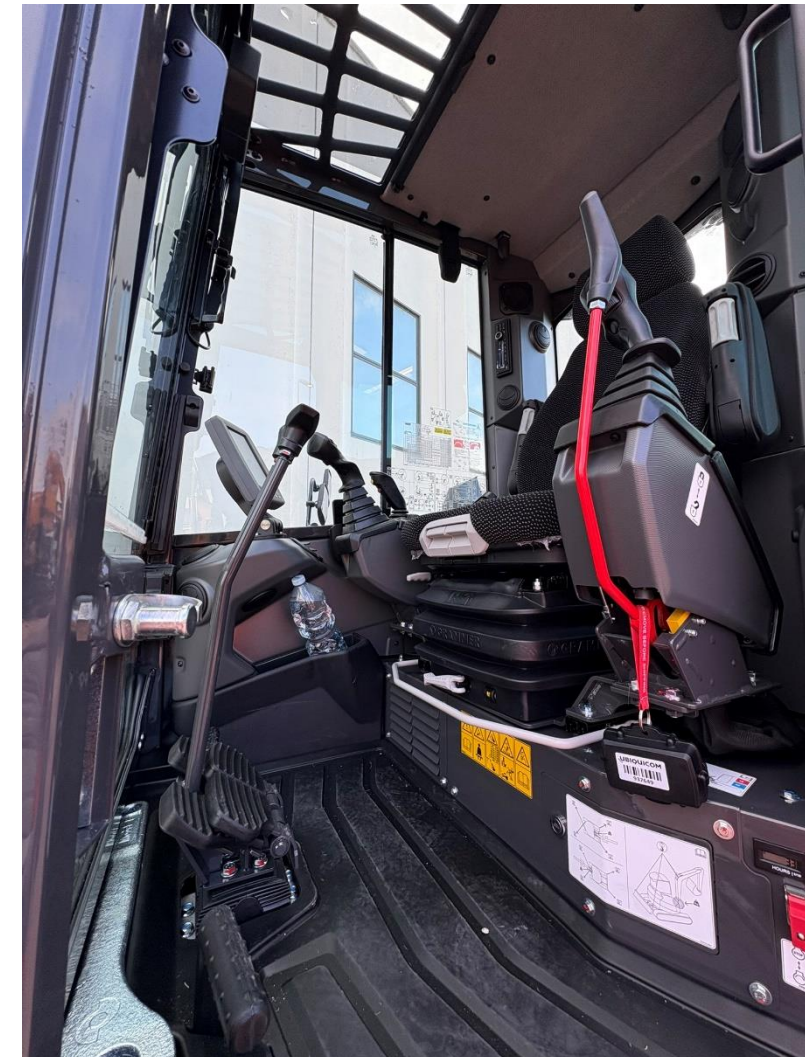
- **Unique performance:** 7809 daN of traction on the tracks, 2106 daN of torque, and a rotation speed of 12 rpm.
- **"True zero tailswing" that rotates 360°** in a radius of just 3.11 m, keeping the lower boom section almost always within the tracks.
- **Electronically controlled 3300cc turbo engine with DPF and EGR**, and external air cooling.
- **Evolutionary load-sensing hydraulics with electronic CANBUS control and exclusion of minimum and maximum working pressures** (reducing fuel consumption by 25%).
- **Flow-sharing closed-type control block** (precise and simultaneous multiple movements regardless of load and engine speed).
- **"FANDRIVE" cooling system with increased cooling efficiency**. Side-mounted engine and rear-mounted tanks and control block (reducing piping length and avoiding power losses).



1.5. TRADITIONAL PLUS POINTS OF THE EUROCOMACH MIDI SERIES



- **"Lifting" side console with "dual-slide" seat** (option only) (no ground vibration transmission and user-adjustable settings)
- **Electro-proportional controls for auxiliary circuits**, attachments, and swing arm (including positioning of the adjustable boom, hydraulic breaker, mulcher, or asphalt planer) / Exceptional foot clearance (with comfortable footrests) / Easy-to-read electronic control panel (anomaly and maintenance alerts, error log)
- **Limited deviation of the arm axis from the center of rotation** (reduces wear on the slewing ring) / Swing arm with hydraulic end-of-stroke cushioning and check valve (extended life of the pivot mechanism and cylinders)
- Automatic shift down under heavy loads



1.5. TRADITION, EXPERIENCE AND SUCCESS COMMITTED — SNAPSHOT OF THE MIDI EXCAVATOR SERIES FROM THE PAST EUROCOMACH



85 SB - 90 ZT – 95 UR - 100 TR – EVOLUTION 2025 – IN THE FOURTH GENERATION:

- All four models have a long tradition at EUROCOMACH and have been in production since the early 2000s.
- The Evolution 2025 version features older, more sophisticated boom and undercarriage technology.
- Only the turret has been completely redesigned to bring it up to the 2025 comfort and technology standards.

1.6. MODEL OVERVIEW – OF THE FOUR NEW BOOM MODEL VARIANTS

85 SB MONOBOOM WITOUT SWING

Digging depth: 3.670 mm
Operating weight: 8.500 kg
Maximum power: 3300 cc Turbo – 73.0 hp
Width: 2.320 mm



90 ZT MONOBOOM WITH SWING

Digging depth: 4.130 mm
Operating weight: 8.880 kg
Maximum power: 3300 cc turbo – 73 hp
Width: 2.320 mm

100 TR TWO PIECES BOOM

Digging depth: 4.320 mm
Operating weight: 10.080 kg
Maximum power: 3300 cc turbo – 73 hp
Width: 2.320 mm

Additional ballast: 450 kg



85 SB - 90 ZT & 100 TR:

All three models feature the already highly rated X-profile undercarriage (2320 mm wide). The turret was completely redesigned to meet the high demands of the North American and European markets. The 85 SB is a zero-tail boom with a monoblock boom without an articulated boom, while the 90 ZT is a zero-tail boom with a monoblock boom and swing. The 100 TR is a zero-tail boom with a two-pieces boom and with swing.

85SB

- Weight Rubber-/ Steeltr.**
8.500 / 8.900 kg
- Turbo Engine Stage V**
3300 cc [53,7 KW - 73 HP]
- eHPQ –Bosch Rexroth Hyd.**
192 + 27 lt/min
- main boom length**
3.705 mm
- Dipper length**
Standard 1.760 mm
optional 2.110 mm
- Dig. depth std.** 3.670 mm
Dig. depth opt. 4.020 mm
- Additional rear balasts:**
Optional Intern: 440 Kg
Optional Extern: 900 Kg
- Control**
Joysticks CANbus Electronics
Bosch-Rexroth "Sense Plus" with multi-proportional roller control



90ZT

- Weight Rubber-/ Steeltr.**
8.880 / 9.280 kg
- Turbo Engine Stage V**
3300 cc [53,7 KW - 73 HP]
- eHPQ –Bosch Rexroth Hyd.**
192 + 27 lt/min
- main boom length**
3.271 mm
- Length dipper**
Standard 1.760 mm
optional 2.110 mm
- Dig. depth std.** 4.130 mm
Dig. depth opt. 4.480 mm
- Additional rear balasts:**
Optional Intern: 440 Kg
Optional Extern: 900 Kg
- Control**
Joysticks CANbus Electronics
Bosch-Rexroth "Sense Plus" with multi-proportional roller control



100TR

- Weight Rubber-/ Steeltr.**
9.750 / 10.150 kg
- Turbo Engine Stage V**
3300 cc [53,7 KW - 73 HP]
- eHPQ –Bosch Rexroth Hyd.**
192 + 27 lt/min
- Boom + Positioner**
2.298 mm + 2.099 mm
- Length dipper**
standard 1.760 mm
optional 2.110 mm
- Dig. depth std.** 4320 mm
Dig. depth opt. 3670 mm
- Additional rear balasts:**
Standard Intern: 440 Kg
Optional Extern: 900 Kg
- Control**
Joysticks CANbus Electronics
Bosch-Rexroth "Sense Plus" with multi-proportional roller control



1.6. MODEL OVERVIEW – OF THE FOUR NEW BOOM MODEL VARIANTS

95 UR OFFSET – BOOM – 100% ZERO TAIL

Digging depth: 3.670 mm
Operating weight: 9.500 kg
Maximum power: 3300 cc
Turbo – 73.0 hp
Width: 2.320 mm



100 S-TR SIDE TWO PIECES BOOM W/O SWING

Still under discussion from 2026

Digging depth: approx. 4.000 mm
Operating weight: 10.080 kg
Maximum power: 3300 cc turbo – 73 hp
Width: 2.320 mm

Zusatzballast: 450 kg



95 UR - 100 S-TR: Should come in the second step in 2026

Both models feature the already highly rated X-profile undercarriage (2320 mm wide). The TURRET was completely redesigned to meet the high demands of the North American and European markets. The 95 UR is a zero-tail boom with an offset boom with swing in the top (100% zero tail) , while the 100 S-TR is a zero tail machine with two-pieces boom on the side without swing.

95UR

- Weight Rubber-/ Steeltr.**
9.500 / 9.900 kg
- Turbo Engine Stage V**
3300 cc [53,7 KW - 73 HP]
- eHPQ –Bosch Rexroth Hyd.**
192 + 27 lt/min
- main boom length**
3.705 mm
- Dipper length**
Standard 1.760 mm
optional 2.110 mm
- Dig. depth std.** 3.670 mm
Dig. depth opt. 4.020 mm
- Additional rear balasts:**
Optional Intern: 440 Kg
Optional Extern: 900 Kg
- Control**
Joysticks CANbus Electronics
Bosch-Rexroth "Sense Plus" with multi-proportional roller control



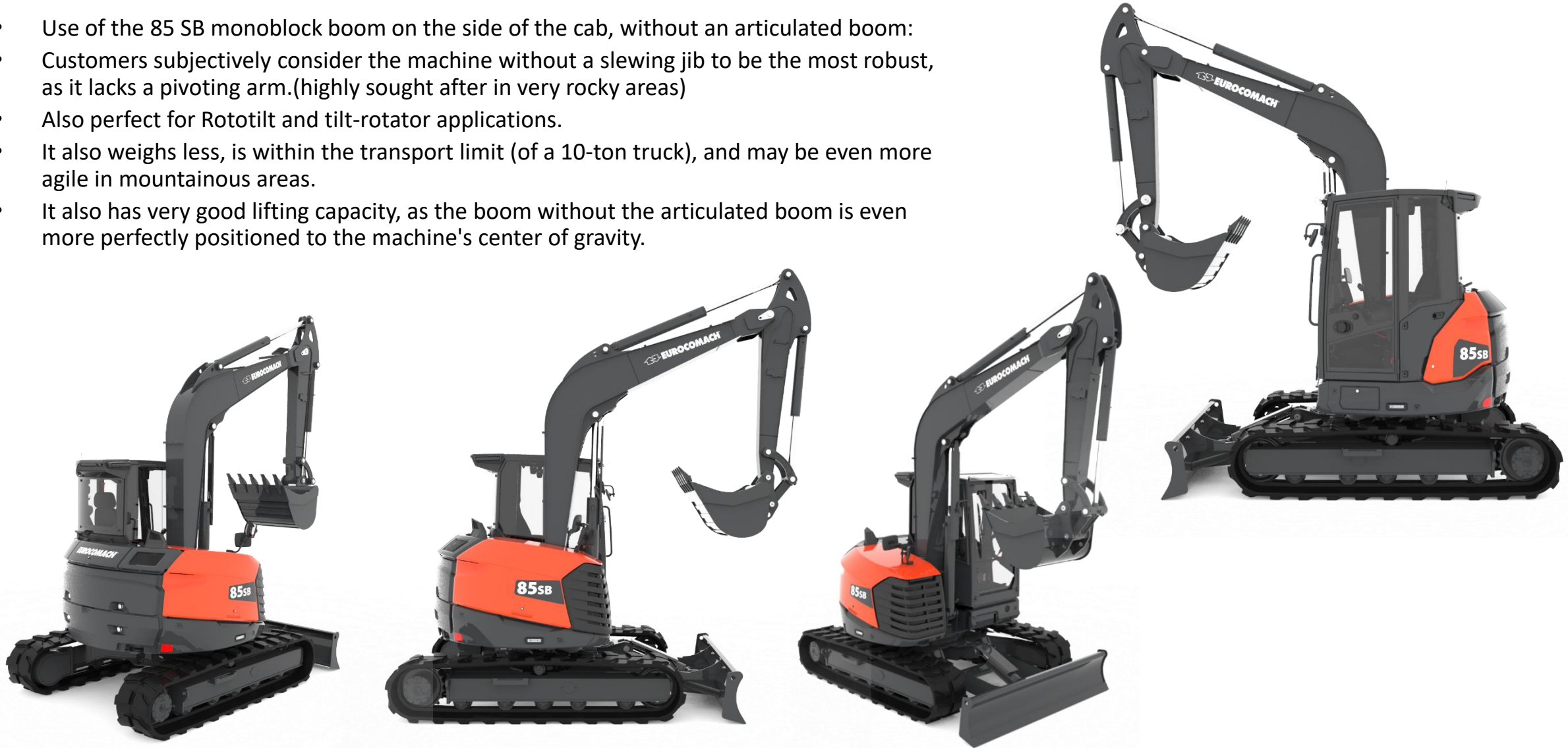
100 S-TR

- Weight Rubber-/ Steeltr.**
9.750 / 10.150 kg
- Turbo Engine Stage V**
3300 cc [53,7 KW - 73 HP]
- eHPQ –Bosch Rexroth Hyd.**
192 + 27 lt/min
- Boom + Positioner**
2.298 mm + 2.099 mm
- Dipper length**
standard 1.760 mm
optional 2.110 mm
- Dig. depth std.** 4320 mm
Dig. depth opt. 3670 mm
- Additional rear balasts:**
Standard Intern: 440 Kg
Optional Extern: 900 Kg
- Control**
Joysticks CANbus Electronics
Bosch-Rexroth "Sense Plus" with multi-proportional roller control



1.6.1. MODEL OVERVIEW – 85 SB - AREAS OF APPLICATION

- Use of the 85 SB monoblock boom on the side of the cab, without an articulated boom:
- Customers subjectively consider the machine without a slewing jib to be the most robust, as it lacks a pivoting arm.(highly sought after in very rocky areas)
- Also perfect for Rototilt and tilt-rotator applications.
- It also weighs less, is within the transport limit (of a 10-ton truck), and may be even more agile in mountainous areas.
- It also has very good lifting capacity, as the boom without the articulated boom is even more perfectly positioned to the machine's center of gravity.



85SB – ZERO TAIL MONOBOOM SIDE-MOUNTED, WITHOUT SWING (8.3 T)

Photo not yet of the new model – to be updated !!!



1.6.2. MODEL OVERVIEW – 90 ZT - AREAS OF APPLICATION

- Use of the 90 ZT monoblock boom with swing:
- Highly productive zero-tail machine
- Use in tight spaces where large quantities need to be processed (but this applies generally)



90ZT – ZERO TAIL MONO BOOM WITH SWING (9 T)

Photo not yet of the new model – to be updated !!!



1.4.5. INTRODUCTION: ZERO TAIL AND ITS BENEFITS

- Eurocomach has been designing its ZT models for years - under the slogan "Zero Tail - Zero Problema." ZT stands for Zerotail.
- Eurocomach Zero Tail machines can perform more complex operations in even tighter spaces.



What are the general advantages of a zero tail Eurocomach?

- Zero-tail excavators do not protrude at the rear. This facilitates work in very tight spaces or hazardous areas (road traffic but also against building walls).
- Allows the operator to fully concentrate on the work ahead.
- Disadvantages such as insufficient stability or insufficient working comfort (narrow cab, engine under the seat, resulting in noise and heat stress) can be eliminated with the Eurocomach zero-tail.
- Because its unique space concept with a transverse side engine with fan drive offers maximum working comfort.
- And its undercarriage concept with a lower center of gravity, created by the minimal deviation of the boom from the machine's center point, offers maximum stability.



100TR - VERSTELLAUSLEGER MIT KNICKARM (9,9T)

Photo not yet of the new model – to be updated !!!



1.6.3. MODEL OVERVIEW – 100 TR - AREAS OF APPLICATION

- Einsatz des 100 TR- Verstellausleger mit Knickarm:
- Use of the 100 TR two-pieces-boom with boom swing:
- Very productive short-tail machine
- Use in tight spaces where volumes need to be handled (but generally applies)
- With the two-pieces-boom, the machine offers versatile application possibilities
- With the two-pieces-boom, the machine has even better lifting capacity
- With the two-pieces-boom, the machine becomes even more compact at the front
- (See the following page – General advantages of the adjustable boom)



1.6.4. INTRODUCTION: DIFFERENCE BETWEEN TR MODEL AND ZT MODEL

What are the general advantages of the two-pieces-boom?

- Überdurchschnittliche Hubkraft (= einer Maschinenkategorie drüber)
- Above-average lifting capacity (= one machine category higher).
- Even more compact machine, as the two-pieces-boom allows for an even smaller front turning circle.
- Greater reach in all directions (greater digging depth, greater reach, and higher loading height).
- Greater variability: The machine can adapt even better to any job.
- Eurocomach is the only manufacturer in the world to mass-produce two-pieces-booms in seven different ton classes.



- The TR is equipped with an adjustable boom instead of a mono boom, providing greater digging depth, reach, and versatility.
- The TR comes standard with an additional rear weight (internal).
- The load-holding valves on the main boom, positioner, and stick are standard (since 01.02.2025 are those with EN 474 also standard in the mono boom models 85 SB and 90 ZT.)



Photos are for illustration purposes of the 45 TR and 100 TR predecessor models and not yet of the new 100 TR EVO 2025!!!

95UR - OFFSET-BOOM EXCAVATOR WITH PARALLEL SWING IN THE TOP ON THE SIDE OF THE CAB(9,1 T)

Photo not yet of the new model— to be updated !!!



1.6.4. MODEL OVERVIEW – 95 UR - AREAS OF APPLICATION



- Use of the 95 UR zero-tail off-set-boom excavator on the side of the cab:100% zero-tail
- Case 1: Loading from a truck into a tight space (two high walls to the right and left) / Turns 180 degrees and stays within the machine radius
- Case 2: Working close to walls



WORK SITUATIONS 95UR



Photo not yet of the new model— to be updated !!!



1.7. OVERVIEW TABLE OF THE MOST IMPORTANT SETUPS

85 SB	90 ZT	100 TR
Bosch Rexroth Sense Plus joystick control &AUX 1, AUX 2, AUX 3, radio with Bluetooth hands-free system, air conditioning, diesel refueling pump,Standard	Bosch Rexroth Sense Plus joystick control &AUX 1, AUX 2, AUX 3, radio with Bluetooth hands-free system, air conditioning, diesel refueling pump,Standard	Bosch Rexroth Sense Plus joystick control and AUX 1, AUX 2, AUX 3 radio with Bluetooth hands-free system, air conditioning, diesel refueling pump, as well as load-holding valves for the boom (main boom, adjuster, and stick) and 440 kg internal additional rear weight as standard.
Neu: - Travel Mode aktivierbar über Display u. Joystick - Schild-Ansteuerung auch über Prop. rechten Joystick	Neu: - Travel Mode aktivierbar über Display u. Joystick - Schild-Ansteuerung auch über Prop. rechten Joystick	Neu: - Travel Mode aktivierbar über Display u. Joystick - Schild-Ansteuerung auch über Prop. rechten Joystick
*From February 1st, 2025, due to the new Machinery Directive, preparation for material movement including load holding valves for the boom and stick cylinders, overload warning signal, lifting capacity table for the driver's seat (load hook not mandatory), rear camera (&LED bar) and roof protection FOPS II (from 6 tons) are mandatory and standard.	*From February 1st, 2025, due to the new Machinery Directive, preparation for material movement including load holding valves for the boom and stick cylinders, overload warning signal, lifting capacity table for the driver's seat (load hook not mandatory), rear camera (&LED bar) and roof protection FOPS II (from 6 tons) are mandatory and standard.	*From February 1st, 2025, due to the new Machinery Directive, preparation for material movement including load holding valves for the boom and stick cylinders, overload warning signal, lifting capacity table for the driver's seat (load hook not mandatory), rear camera (&LED bar) and roof protection FOPS II (from 6 tons) are mandatory and standard.
Optional: Lifting hook on the rod	Optional: Lifting hook on the rod	Optional: Lifting hook on the rod
Display with liter quantity & working mode settings and attachment set storage as standard (with CANBUS the machine is even more customizable)	Display with liter quantity & working mode settings and attachment set storage as standard (with CANBUS the machine is even more customizable)	Display with liter quantity & working mode settings and attachment set storage as standard with CANBUS the machine is even more customizable)
Optional: Preparation for hydraulic QC single or double acting with single or double pressure adjustment	Optional: Preparation for hydraulic QC single or double acting with single or double pressure adjustment	Optional: Preparation for hydraulic QC single or double acting with single or double pressure adjustment
Optional: Mulcher hydraulics but probably not so necessary anymore since AUX 1 approx. 10 L/min more	Optional: Mulcher hydraulics but probably not so necessary anymore since AUX 1 approx. 10 L/min more	Optional: Mulcher hydraulics but probably not so necessary anymore since AUX 1 approx. 10 L/min more
Further options: DAB+ radio, Plexiglas canopy, air seat with seat heating, LED bars, central lubrication system and much more	Further options: DAB+ radio, Plexiglas canopy, air seat with seat heating, LED bars, central lubrication system and much more	Further options: DAB+ radio, Plexiglas canopy, air seat with seat heating, LED bars, central lubrication system and much more

PICTURE EXAMPLES OF ACCESSORIES - MULCHER HYDRAULICS



Hydraulic for mulchers consists of:

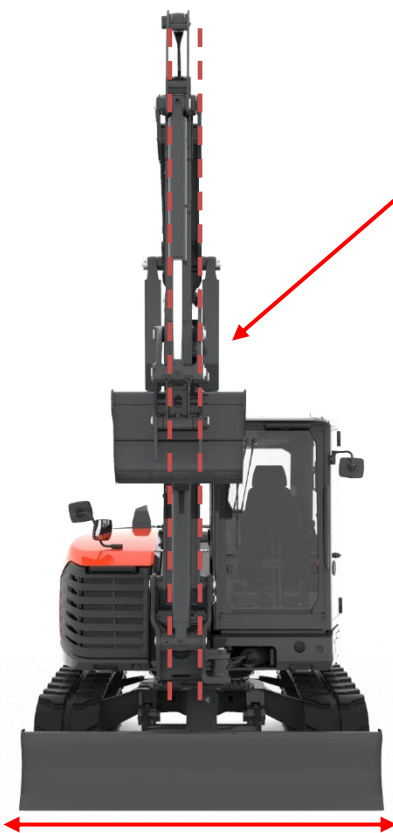
- Additional pump 71 l/min
- Direct drainage line to the oil tank
- Advantage: The additional pump ensures the mulcher receives a constant supply of oil. The LS pump power is therefore fully available to the machine.
- This means that the machine can perform all other movements (i.e., drive and main boom) even faster and more responsively during mulching, thus generating a higher mowing capacity per hour, which is particularly important in landscaping and municipal applications.
- Thanks to the new standard fan drive, as well as the slightly improved pumping capacity of the main pump, the new EVO 25 series of models 85 SB-90 ZT and 100 TR is even better suited than the previous series.

2. WALK AROUND



2.1. WALK AROUND - UNDERCARRIAGE:

Minimum deviation of boom axis to the center of rotation

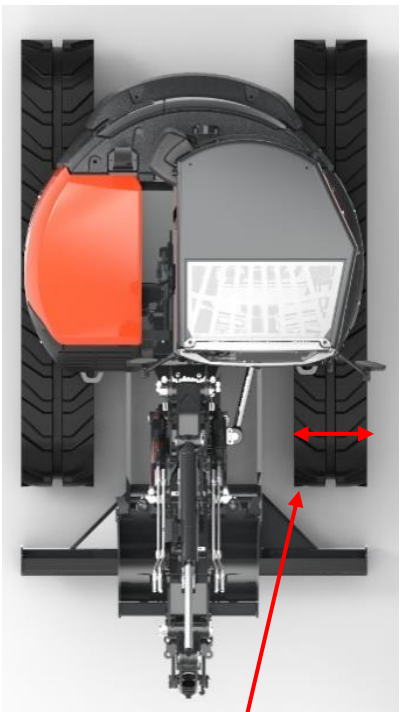


Machine width:
2320 mm

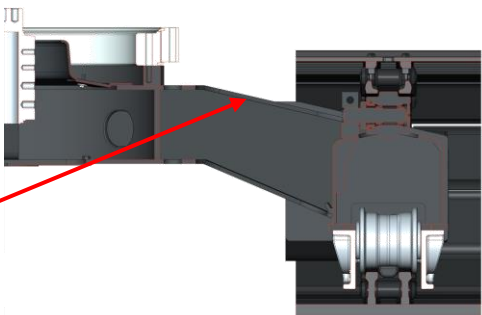


Chassis length:
2896 mm

- The undercarriages of all four models are of the X-type, which ideally distributes forces across the entire frame.
- The side panels and X-profile are chamfered so that debris always falls downwards.
- Despite a compact tail radius (ZT equals zero tail), they offer infinite stability thanks to the ideal coordination with the turret with a maximized center of gravity (the arm's deviation from the machine's center of gravity is minimal).
- The widths are always 2320 mm.



Tracks widths:
450 mm – Optional with 600 mm steel tracks



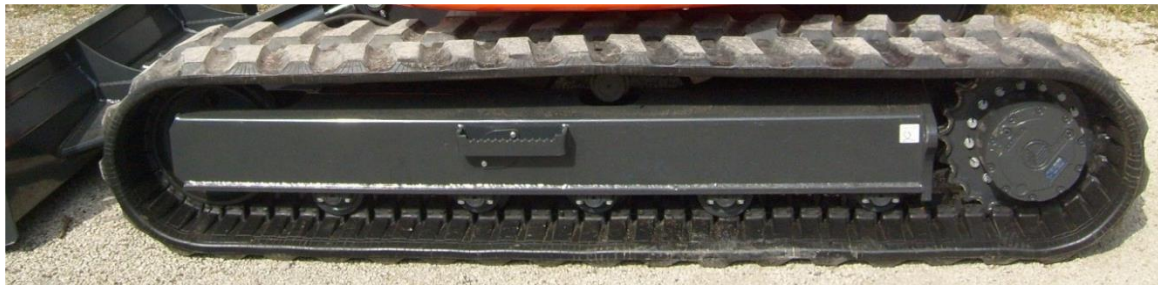
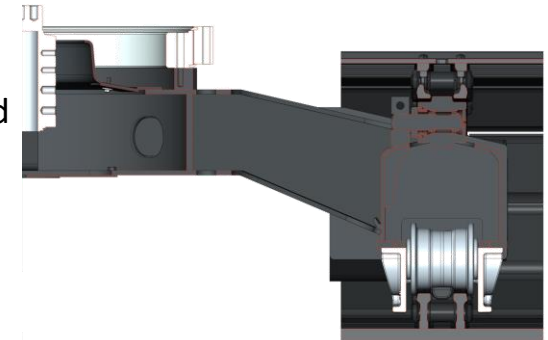
Beveled side panels and X-profile:
So that the material always falls out of the undercarriage

2.1.1. WALK AROUND - UNDERCARRIAGE FROM THE EXPERT: WE HAVE BEEN DEVELOPING CRAWLER UNDERCARRIAGES FOR RENOWNED MANUFACTURERS SINCE THE EARLY 1980S

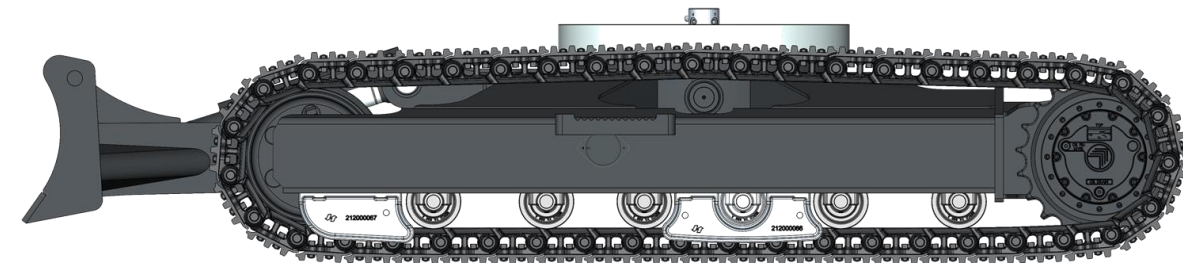


Special geometry of the chassis ensures that little material accumulates

"X" chassis enables maximum resistance and optimal force distribution



Automatic downshift from 2° to 1° driving speed under load



Undercarriage with 5 support rollers in the rubber track version (6 in the iron track version), guarantee optimal stability and reduced vibrations when driving

2.1.2. WALK AROUND UNDERCARRIAGE: FOUR DIFFERENT TRACK VERSIONS



Rubber tracks – with continuous track guide and a profile that always runs to the center of the track – a good standard even in the 10-ton range



Alternatively, in the Eurocomach delivery program:



8-hole shoes
steel tracks



8-hole steel tracks with screwed-on rubber pads Bolton

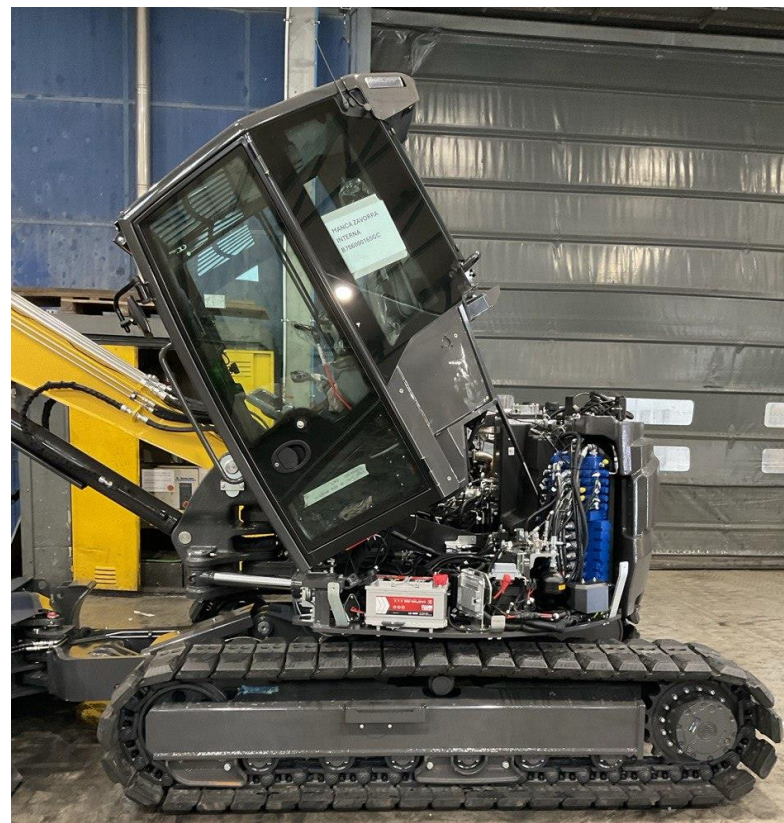


GEOGRIP BRIDGESSTONE
(vulcanized iron chains
screwed directly onto the
ground)

2.2. WALK AROUND - TURRET:

Unique space concept: based on the concepts of the models 42 ZT – 75 TR

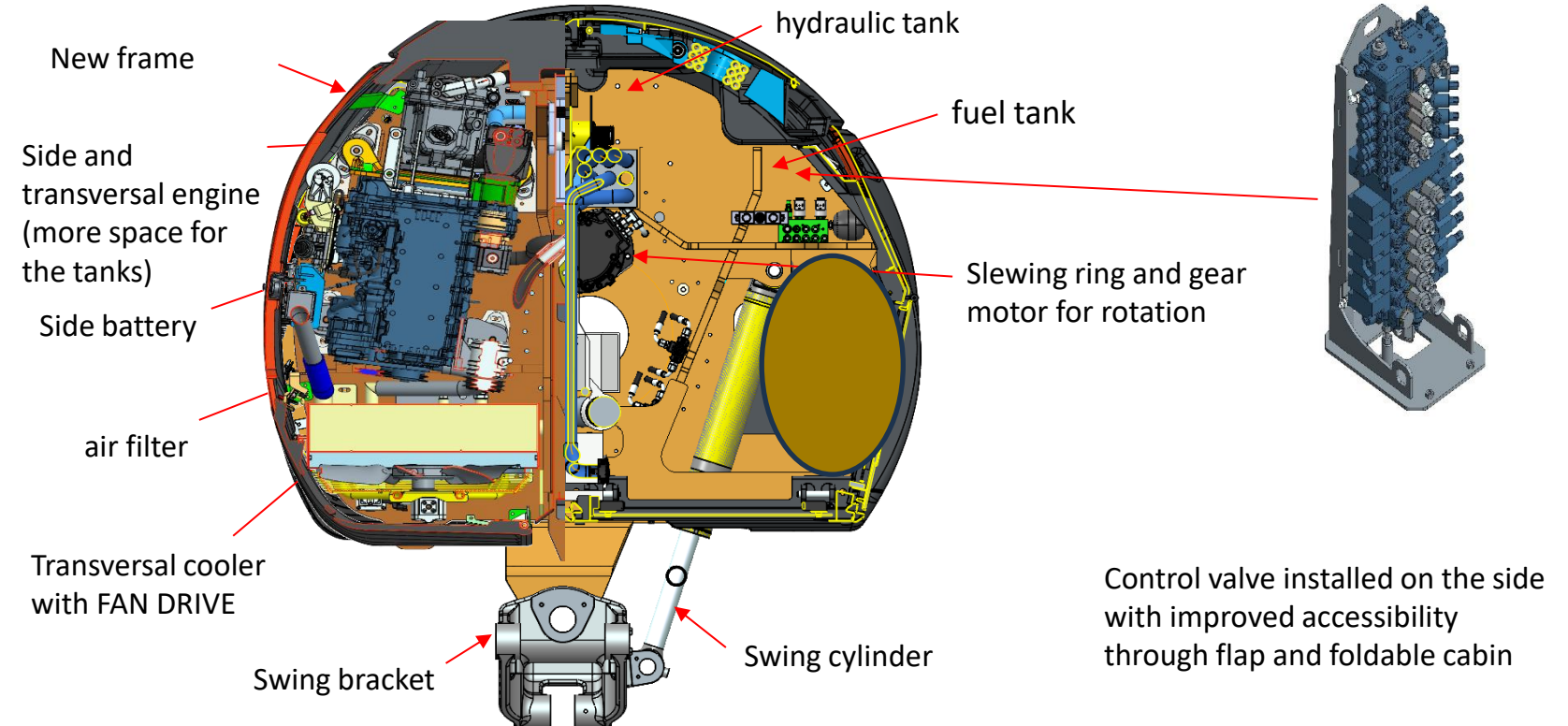
- The side-mounted engine not only improves cabin comfort but also significantly improves maintenance accessibility.
- This is complemented by the hole in the rear end and the tilting cabin, providing extremely convenient maintenance comfort.



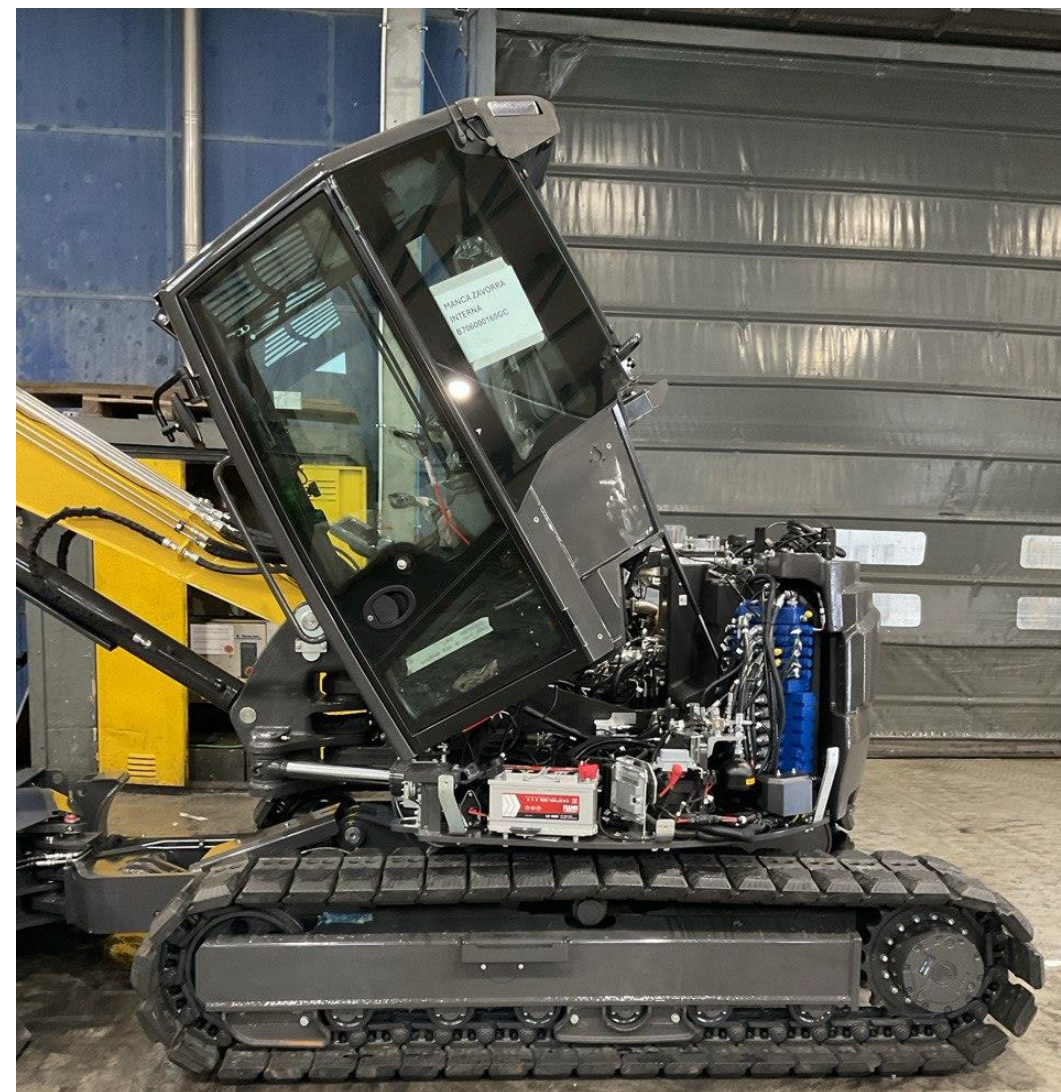
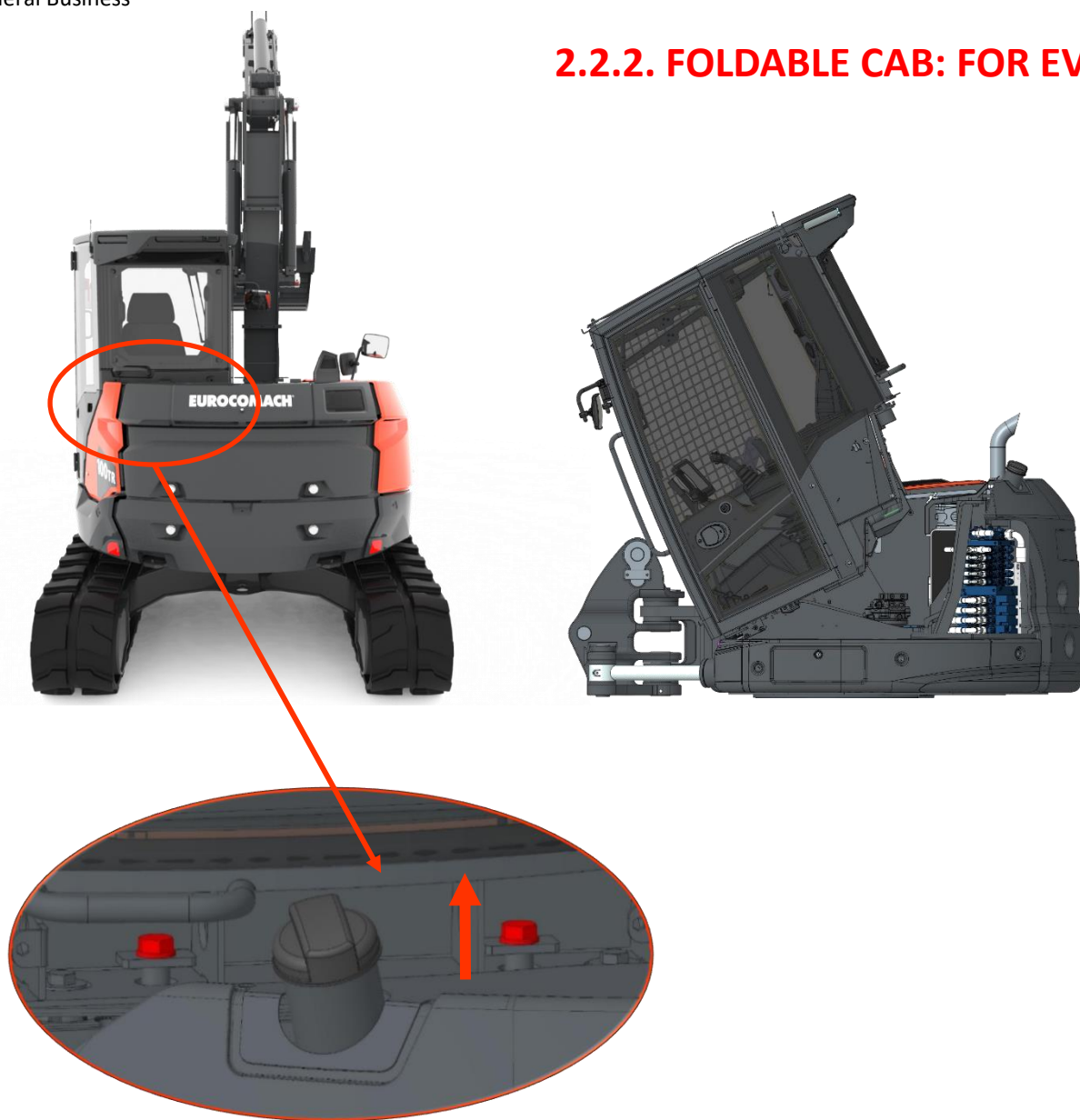
2.2.1. UNIQUE MACHINE SPACE CONCEPT TURRET:

Unique space concept: based on the concepts of the 42 ZT – 75 TR models

- Transversely mounted side-mounted engine, separated from the cab, maximizes space to the side and rear (→ wide cab with plenty of legroom).
- Since the engine is mounted sideways and separated from the cab, noise and heat generation are reduced in the cab.
- A fan-drive cooling system with hydraulic control increases cooling performance while also reducing external and internal noise.
- Sampierana rear weight design with maintenance access to the main pump.



2.2.2. FOLDABLE CAB: FOR EVEN MORE MAINTANANCE COMFORT



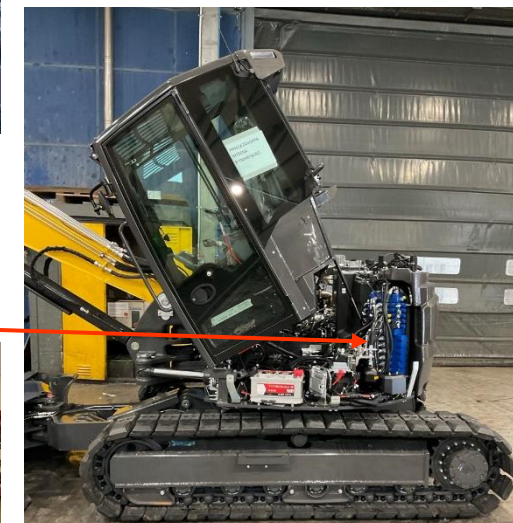
2.2.3. TURRET – COMPONENTS:

Unique machine concept – components for even more performance and even more working comfort:

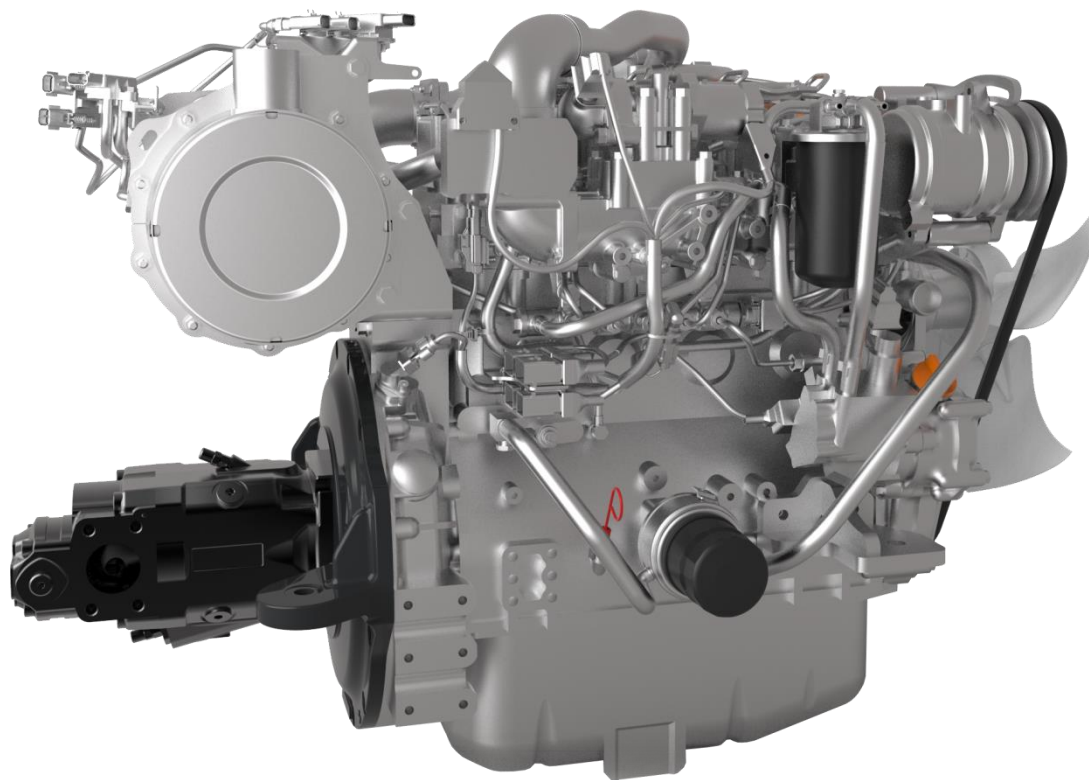
- A **Stage V – Tier IV turbo engine** with integrated particulate filter (Yanmar 3300cc – 73 hp) delivers superior performance and thus operator comfort.
- A **fan-drive cooling system** with hydraulic inversion control and various duty cycles adapts perfectly to the work to be completed, optimizing the machine's cooling and performance while also reducing unnecessary external noise and thus increasing operator comfort.
- An **eHPQ Rexroth hydraulic system with 11 elements** enables multiple simultaneous movements as well as the activation of numerous auxiliary circuits. Four to five electro-hydraulic proportionally controlled AUX1 commands (AUX 2 and AUX 3 are standard), making the machine universally applicable as a multi-tool carrier.
- An **electronic pump (EOC) with variable flow + one gear pump on the PTO (fan drive)** motor makes the machine even more responsive. The electronic control allows the pump and engine power curves to be variably adapted to the work being performed or the movements being performed. In addition, various working modes (ECO-STD-PWR-IND) can be selected, allowing the machine to adapt perfectly to the type of work. This also increases working comfort while simultaneously increasing performance and customization options.



FAN DRIVE –
Viskolüfter Kühlsystem
(mit automatischer
Invertierung)



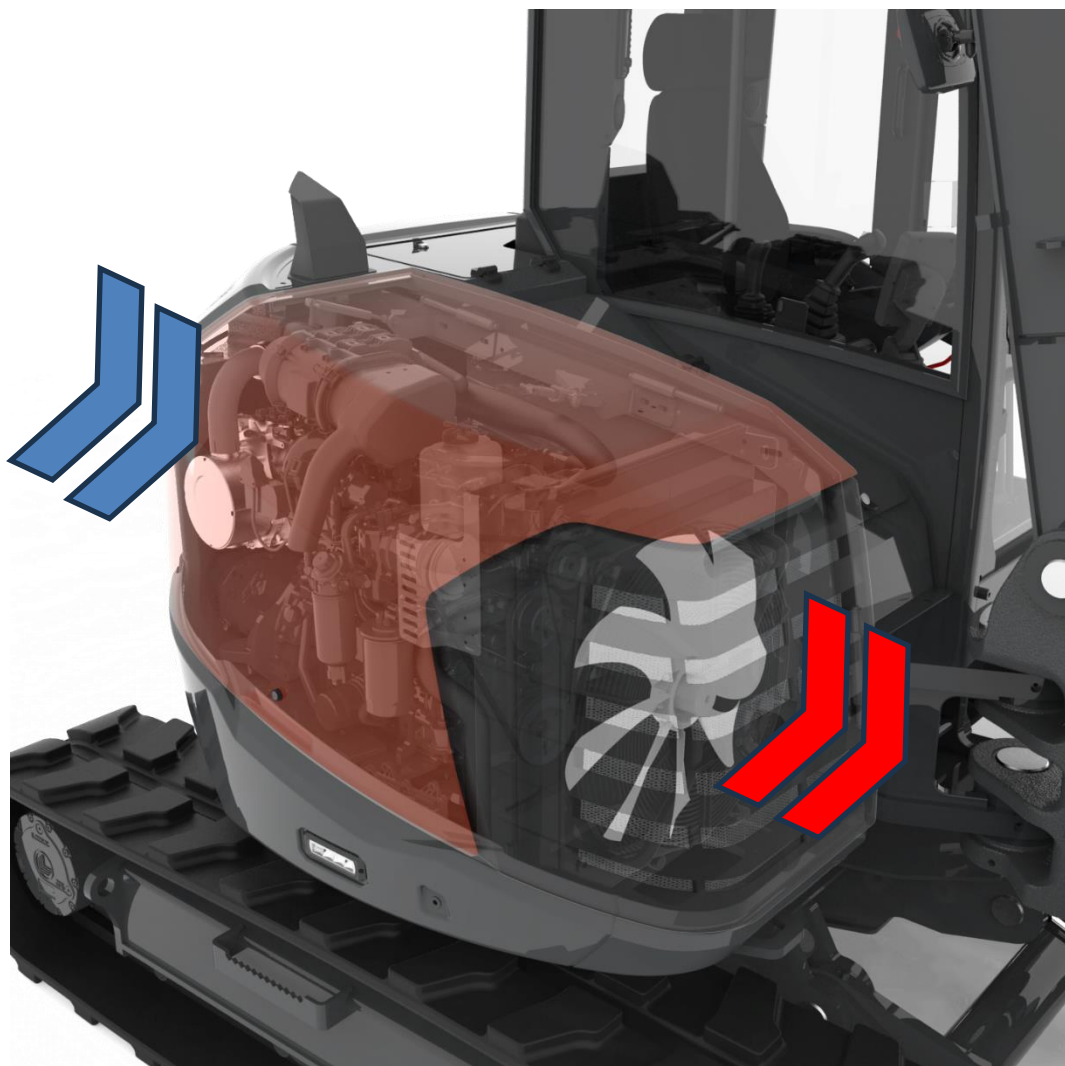
2.2.3.1. COMPONENTS: ENGINE - EURO STAGE V TURBO POWER 53.7 KW (73 HP) OFFERS BASE FRAME FOR A LOT OF PERFORMANCE



ENGINE:

- Model: YANMAR 4TNV98CT
STAGE V (**Turbo**) / EPA TIER 4
FINAL
- 53.7 kW (73 hp) @ 2100 rpm
- DPF (Integrated Particulate
Filter)
- Common Rail Injection System
- EGR

2.2.3.2. COMPONENTS: FAN DRIVE COOLING SYSTEM THE BASIS FOR HIGH PERFORMANCE AND LOW EXTERNAL NOISE



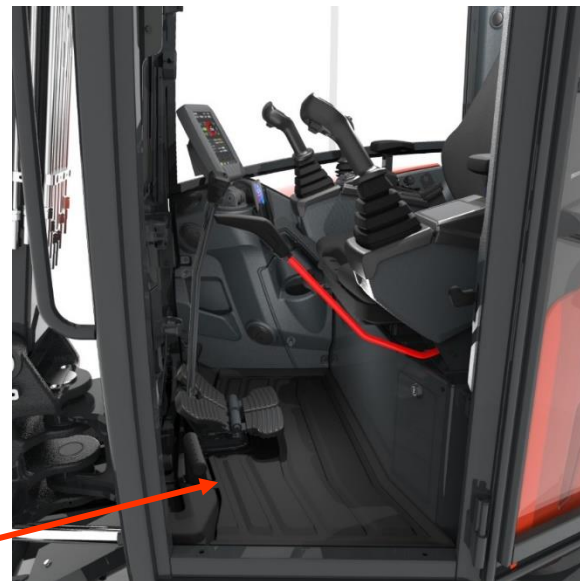
FAN DRIVE:

- FAN DRIVE cooling system now serial equipment
- Cooling system with electro-hydraulic controls
- invertible and adjustable via display
- In addition to significantly improved cooling,
- this system also significantly reduces exterior noise

2.2.3.3. COMPONENTS: NEW HYDRAULIC SYSTEM - eHPQ – BOSCH REXROTH
FOR HIGH PERFORMANCE – EVEN MORE FUNCTIONS

	85SB	90ZT	100TR
Hydraulic pump (l/min)	Bosch Rexroth	192 l/min + 100cc	
control valve	Bosch Rexroth		
Rotation motor	Bonfiglioli	- eHPQ Bosch Rexroth is load sensing with flow sharing as usual (but fully electronic). - Flow sharing: Execute multiple simultaneous movements (the electronics intelligently adjust the motor, pump, and flow distribution). Compared to the previous model, we no longer need a pump for the LS pressure; the signal is electrical. We now only have one main pump (192 l closed center), which has approximately 10 liters more capacity, and the hydraulic motor of the fan drive. Control block as usual with 11 elements (AUX pressures can now be adjusted via service partners if necessary, without changing the coil). - The rest of the components remain at the highest level as usual.	
Rotary drive	Officine ALA		
drive motor	Bonfiglioli		

2.3. COMFORT WORKPLACE – WIDE ENTRY – EVEN MORE COMFORT



- Extremely generous legroom and large entry
- Significantly improved comfort thanks to the new comfort cabin with improved air conditioning
- New Softsense joysticks

2.3.1. COMFORT WORKPLACE – NEW COMFORT CAB SUSPENDED & SEPARATED FROM THE REST OF THE MACHINE:

New comfort cabin:

1. Suspension with hydraulic dampers
2. Compared to the previous model, the Cab offers more headroom and better visibility
3. Wider, especially at the joystick console
4. Wider entry
5. Rear camera and LED bar now standard, also due to the new CE directive
6. Air conditioning now installed in the spoiler (air quality and cooling effect are best here)

Hydrodämpfer



3 LED bars and rear camera



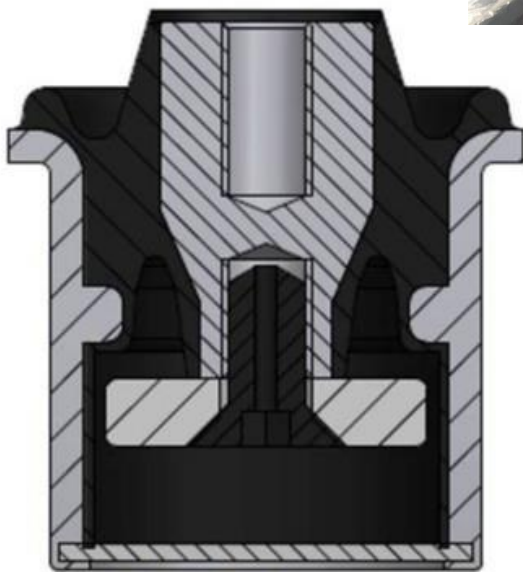
air conditioning



2.3.1. NEW COMFORT CAB WITH LATEST «SILENT BLOCKS» TECHNOLOGY

*The new cabin - comfortable and spacious - is mounted on four hydraulic **silent blocks** that eliminate vibrations on board and guarantee maximum operator comfort..*

AMC-MECANOCAUCHO® **hydraulic cone mounts combine** a conical spring element (elastomer) with a hydraulic damper. Both components can be individually tuned. A low damping coefficient is required for good vibration isolation, while a high damping coefficient is necessary for rapid shock absorption and stability. These hydraulic cone mounts combine these opposing requirements in a single mount. This achieves both very high levels of vibration isolation and vibration damping.



2 in the front under the cabin



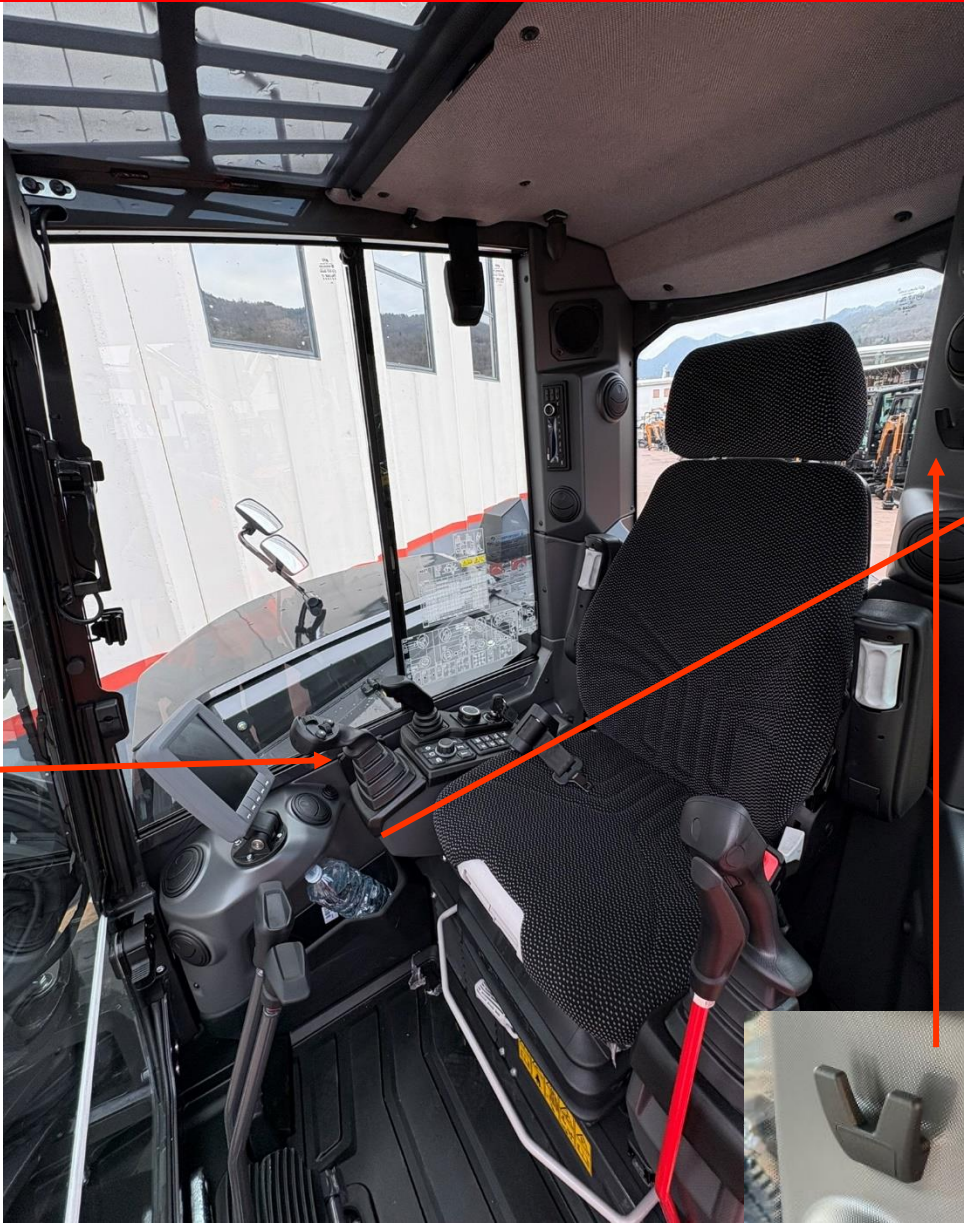
2 in the rear part under the cabin



2.3.2. COMFORT WORKPLACE WITH PLENTY OF SPACE AND COMFORT TO MASTER LONG WORK PHASES



Mobile phone holder with USB plug and bottle holder



Sun blind, coat hooks, interior lighting, Bluetooth radio with hands-free system (opt. DAB+) and several ventilation units



2.3.2.1. COMFORT WORKPLACE – INTERIOR AND DETAILS:



Tiera 7 Display (see also appendix)
with mobile phone and bottle
holder for large 1.5 liter bottle)

Scrollboard



Using display and scrollboard:

1. Adjust all movements, now CAN-BUS electro-proportional
2. Adjust the flow rates and sensitivity of hydraulics 1 and articulated arm, or TR, AUX 2, 3, etc., and the blade (new)
3. Adjust the working mode (ECO - Standard - Power)
4. Adjust the auto-idle time interval (1-5 seconds)
5. Particle filter management and diagnostics
6. Activate the blade on the joystick and/or TRAVEL MODE (new)

2.3.2.1. COMFORT WORKPLACE – INTERIOR AND DETAILS:

Height-adjustable
armrests

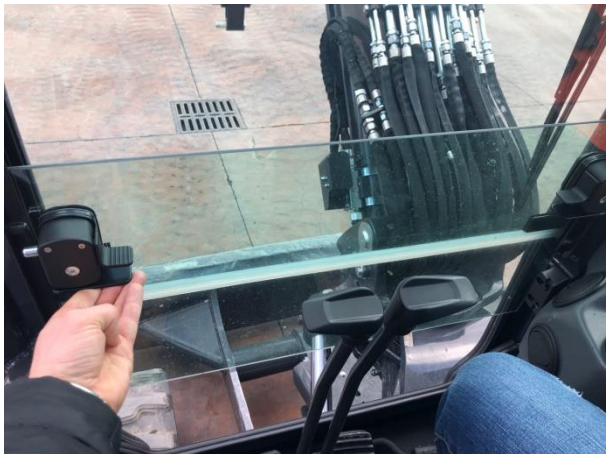
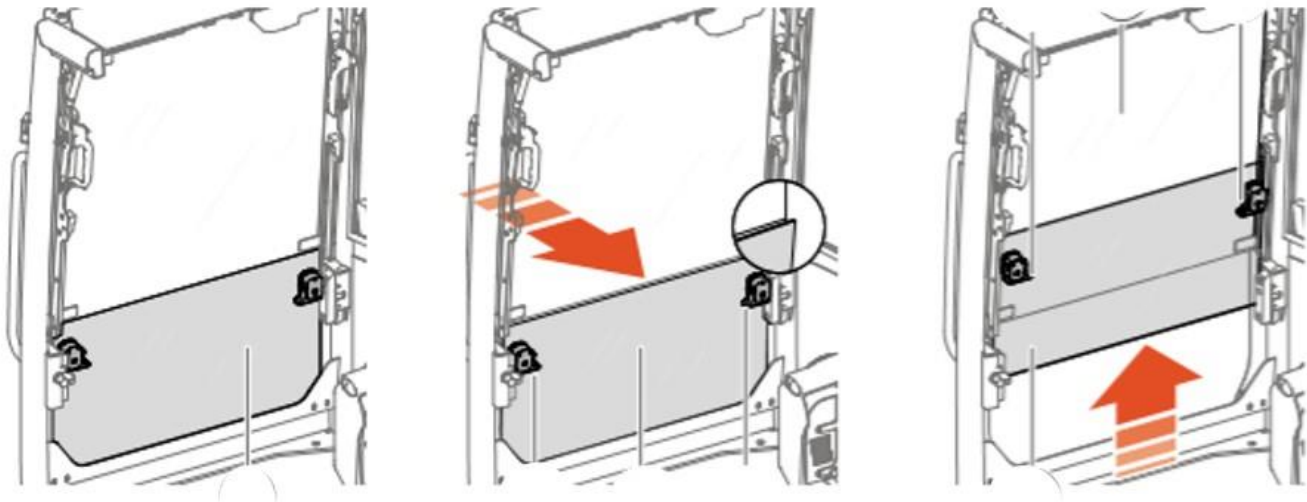


Tiera 7 display with
mobile phone and bottle
holder (see also
appendix)



2.3.2.1. INTERIOR DETAILS: LOWER WINDOW CAN BE STOKEN INTO UPPER WINDOW

The lower windshield in the cabin version can be opened for ventilation and conveniently slid into the upper windshield. This prevents loss or damage during removal.



2.3.2.2. COMFORT WORKPLACE – NEW DRIVER’S AREA:

New driver’s area:

1. Mechanical Grammar seat with unsprung double slides(optionally available with sprung double slides, with air-cushioned seat, or with seat heating)
2. Large footwell
3. Innovative Softsense Plus joysticks(Scandinavian type)
4. Wider entry



2.4. CONTROL & ADDITIONAL HYDRAULIC CIRCUITS :

- All machines feature **CAN-BUS control** with "**Sense Plus**" joysticks from **Bosch Rexroth**
- **with multi-proportional control (3 right and 2 left)** for controlling AUX1-2-3, adjustable boom
- **with 3 plus 3 switches**
- **Electrical switching of AUX 1** (hammer or bucket hydraulics as standard) in the cabAll machines feature a second and third auxiliary circuit AUX 2 or AUX 3 (ideal for swivel and rotation movements)
- New: **Control of the blade on the roller of the adjustable boom** (activated via switch on the left joystick)
- New: **Travel Mode** activated via display and activated via switch (left joystick becomes the drive lever & right joystick controls the entire machine)
- Optionally available: Mulcher hydraulics, which requires an additional pump. However, since the new hydraulic system has approximately 10 liters available, the need is currently being examined.
- **New: In INDIVIDUAL MODE**, all controls (not just the rollers) can be adjusted via the display, including the liter volume, sensitivity, and curves. (Advantage of CAN-BUS control.)
- All machines can be equipped with an overload warning device (standard with EN 474) and various types of hydraulic preparation for hydraulic quick couplers.





- *TIERA 7 display: with liter adjustment for all proportional switches in addition to AUX1, 2, and 3, as well as articulated boom, adjustable boom optional, auto-idle, particle filter, and work mode management.*
- *New: Activation of travel mode via display → travel drive on the left joystick / complete control on the right joystick. New: Switch to double travel speed on the right joystick (not just on the blade lever).*
- *New: Control of the blade on the roller on the right joystick.*
- *Mobile phone and bottle holder.*
- *Scroll wheel and control panel for display operation (see appendix for more information).*

New button D: Inversion AUX2 with AUX3
(when active then AUX2 works on left and
AUX 3 on right joystick)

H button: electrical switching AUX 1 now
new was not available in previous series



SWITCH CONSOLE ON THE RIGHT SIDE

Display – Scroll board

Keypad	
R: Double-acting hydraulic quick coupler (optional)	Rotating beacon
Windshield washer fluid	Windshield wipers
Headlight machine	Headlight boom
D: Inverting the AUX2 roller function with AUX3 roller	H: Electrical switching AUX1 (hammer) single/double acting

Electronic throttle with MANUAL IDLE and AUTO IDLE function

If the manual idle and auto idle functions are not activated, you can increase the engine speed by turning the knob clockwise. To decrease it, simply turn it counterclockwise.

MANUAL IDLE

The "Manual Idle" function allows you to manually adjust the engine's idle speed. To activate this function, press and release the button. Activation of the command is confirmed by a red LED on the button. To deactivate this mode, press or turn the button again. At the same time, the LED will also go out.

AUTO IDLE

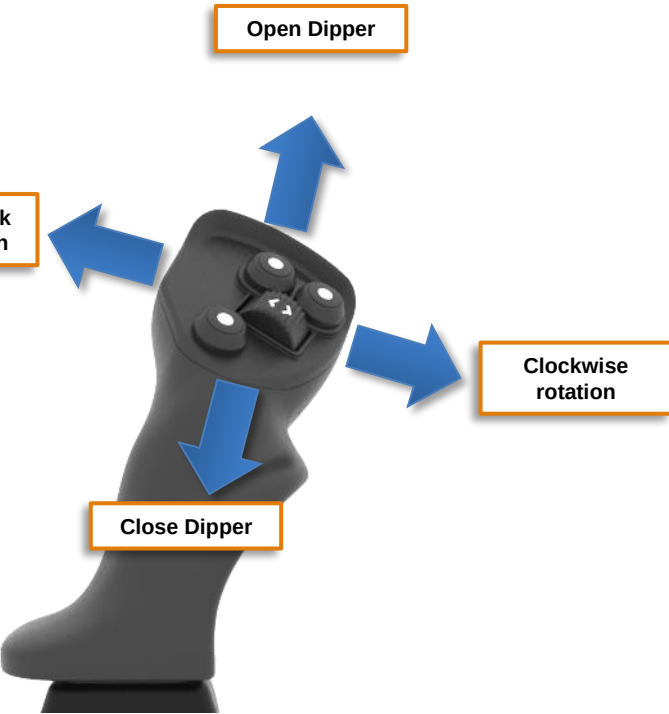
When the control is activated, the machine enters automatic idle mode: the engine speed is reduced to idle if no hydraulic function is activated after a certain period of time. As soon as a hydraulic function is activated, the engine speed automatically returns to the previously set speed. To activate this function, hold the button for more than 3 seconds. Activation is confirmed by the illumination of a green or blue LED on the button. To deactivate this mode, hold the button for more than 3 seconds; at the same time, the LED will also go out.

LEFT JOYSTICK – ISO

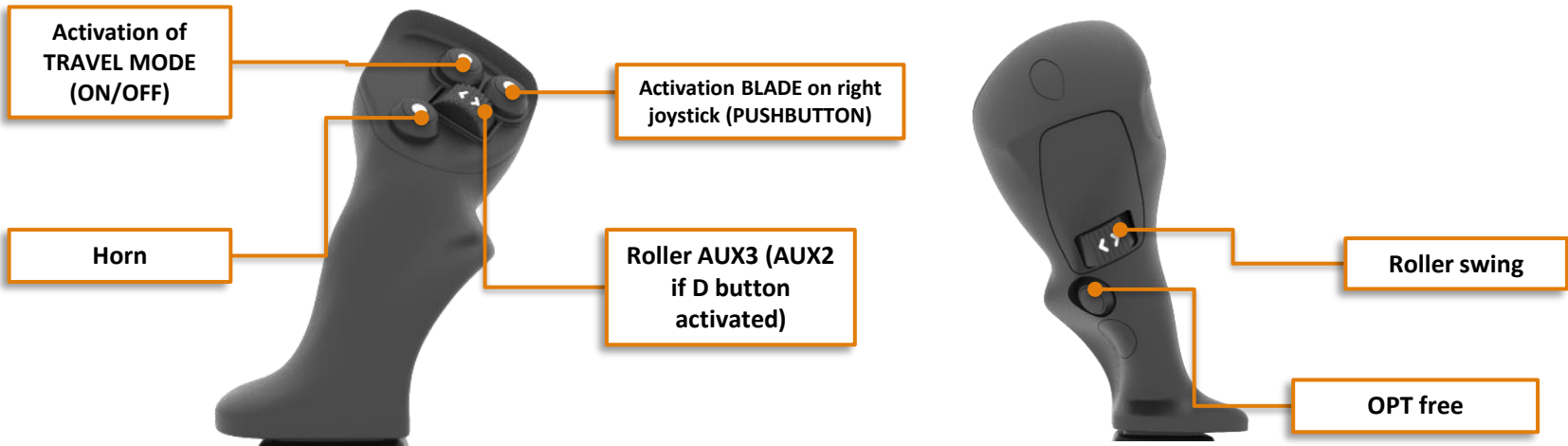
The left manipulator controls the movement of the boom and rotates the upper structure.

- 1. Move the joystick to the left to rotate the upper structure counterclockwise.
- 2. Move the joystick to the right to rotate the upper structure clockwise.
- 3. Move the joystick forward to open the dipper.
- 4. Move the joystick backward to close the dipper.

The left manipulator has three configuration types, depending on the machine model.



Alternatively, SAE control (stick and main boom are swapped) or travel mode can be activated via the procedure display. See below.

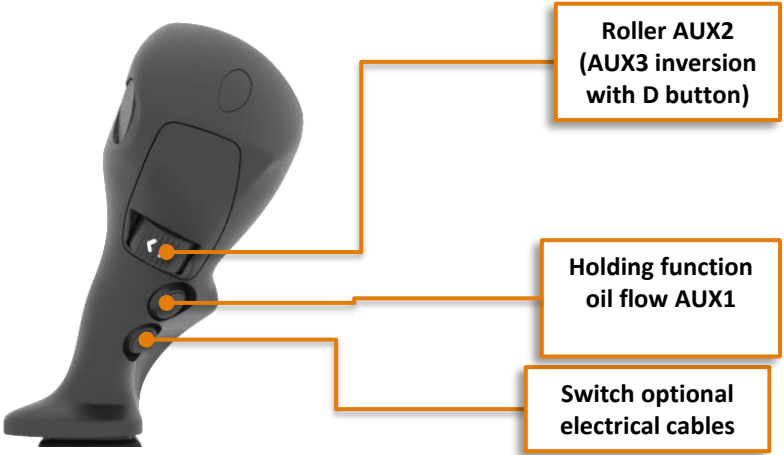
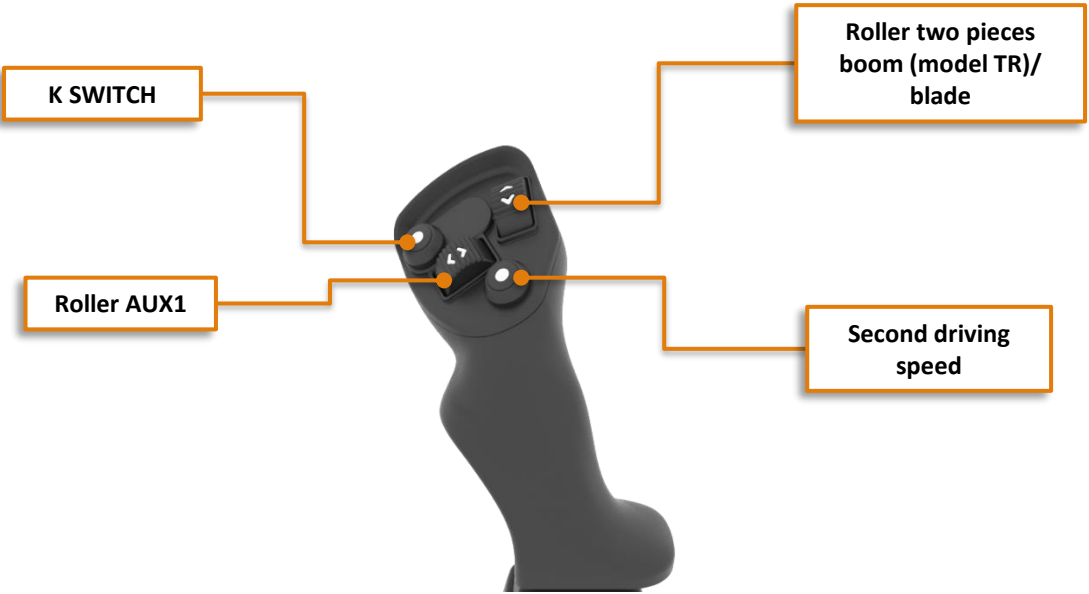


RIGHT JOYSTICK - ISO

The right joystick controls the boom lift and lower and performs bucket movement.

- 1. Move the joystick left to control bucket closing.
- 2. Move the joystick right to control bucket opening.
- 3. Move the joystick forward to lower the main boom.
- 4. Move the joystick backward to raise the main boom.

The right joystick has three configuration types depending on the machine model.

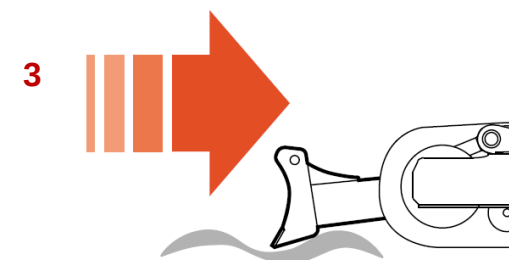
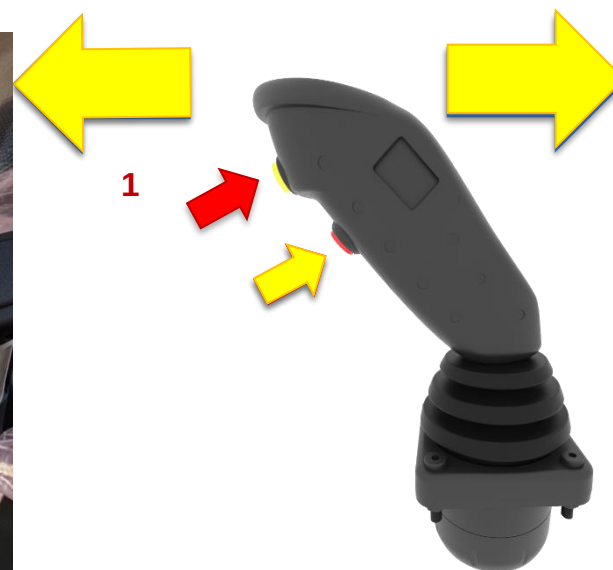


Alternatively, SAE control (stick and main boom are swapped) or travel mode can be activated via the procedure display. See below.

DOZER BLADE/TRAVEL SPEED CONTROL LEVER

This lever, located on the right console, has several functions:

1. **Raising/lowering the blade:** To raise the blade, pull the lever backward; to lower the blade, push the lever forward.
2. **Travel speed control:** Press the upper button to change gears. There are two gears: 1st gear (low) and 2nd gear (high). When high speed is active, the corresponding warning light illuminates. The machine is equipped with the AUTO SHIFT DOWN function. When traveling in high speed, the machine shifts to low speed when a certain force is exceeded. When the force decreases, the machine automatically returns to high speed.
3. **Float function (optional):** This function neutralizes the function of the dozer cylinder and short-circuits the undersides and shaft. In this state, the blade can move freely up and down, following the unevenness of the ground by simply resting on the ground due to gravity. Float mode is suitable for reverse ground leveling operations.



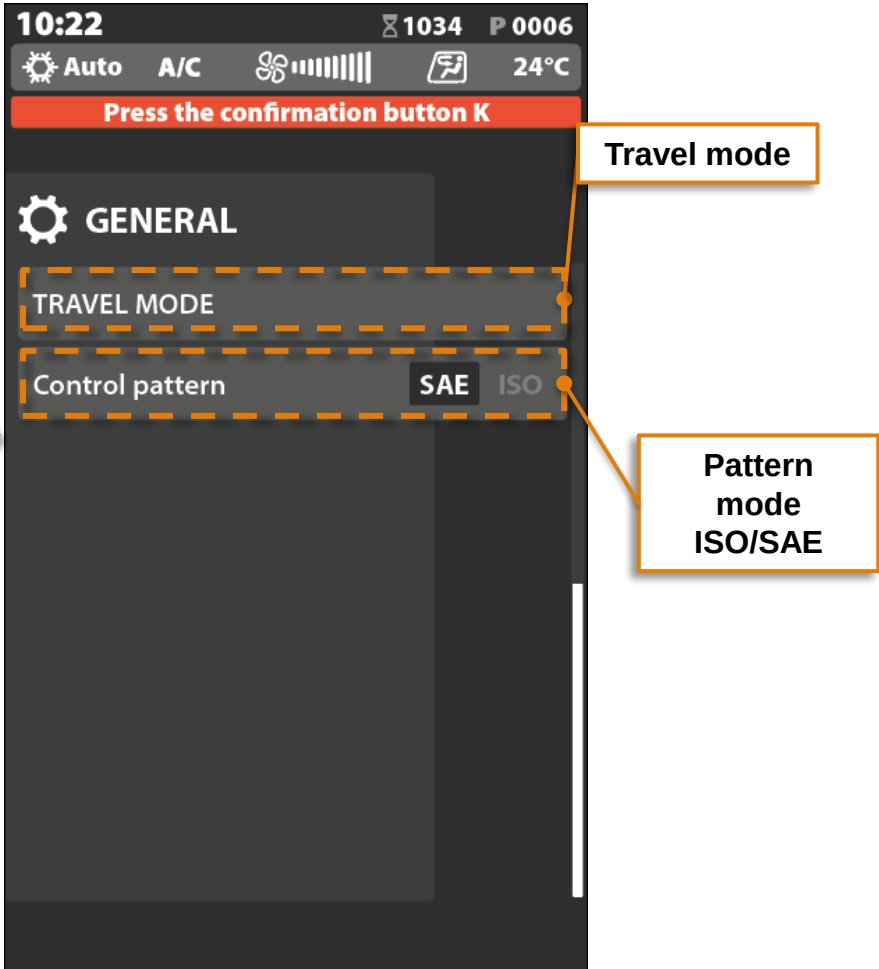
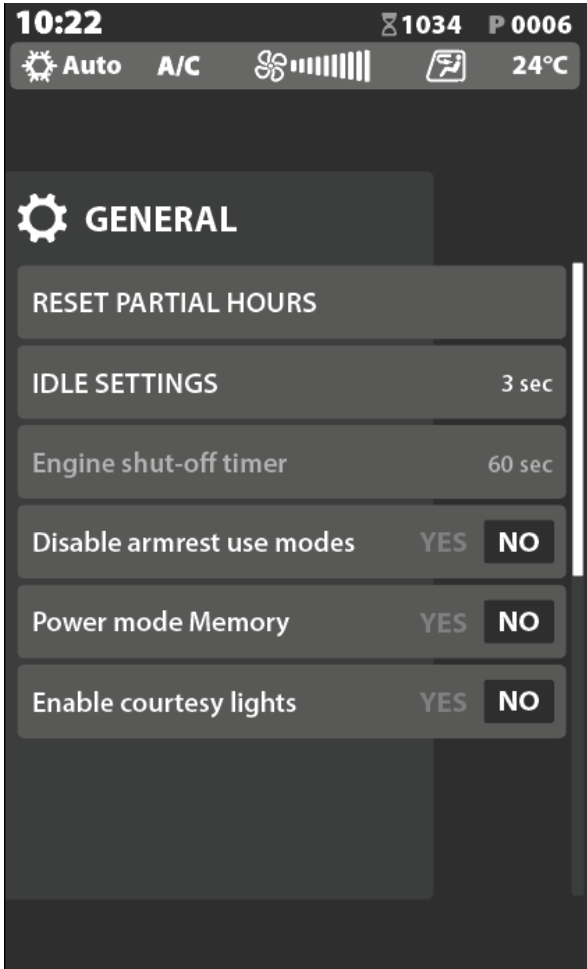
TRAVEL MODE – SAE CONTROL

The first release must always be made with the armrest raised.

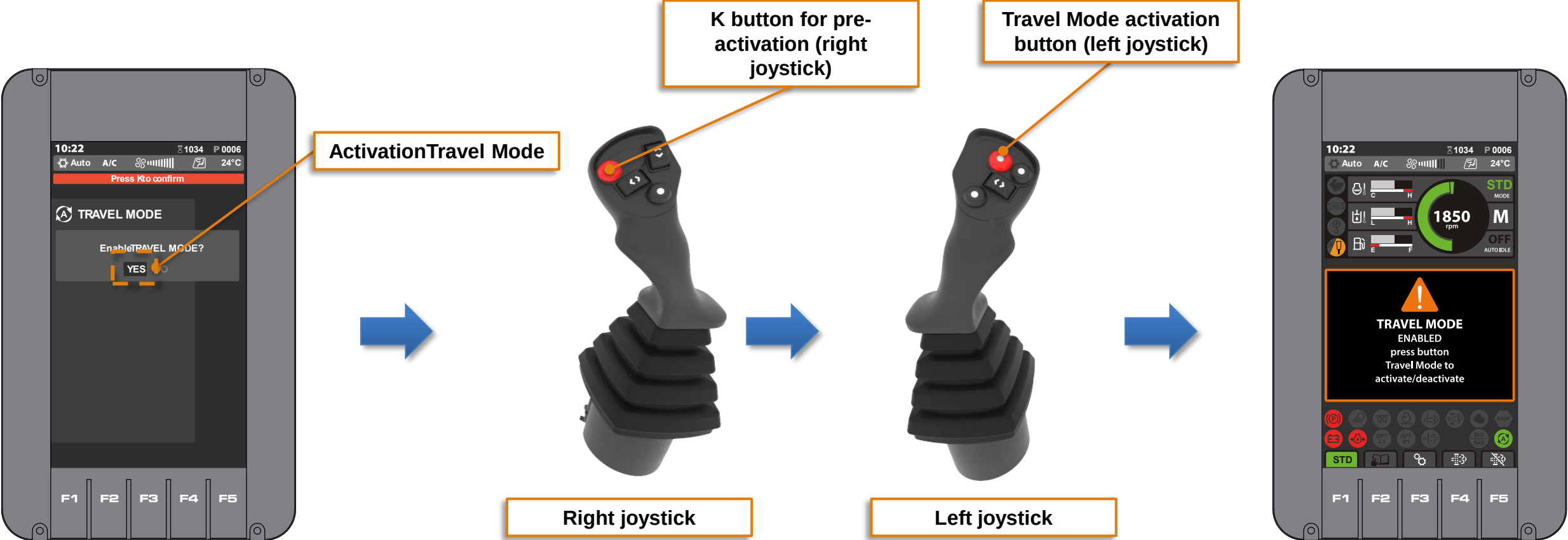
ACTIVATION PROCEDURE – TRAVEL
MODE – SAE CONTROL:

Pre-activation Travel Mode

- Raise the armrest
- Select TRAVEL MODE or SAE control display under the menu
- The display will ask if you really want to activate Travel Mode or SAE control. Confirm by pressing the K button.
- Once Travel Mode is activated, you can use the TRAVEL MODE ACTIVATION button to toggle between ISO and TRAVEL as needed.
- If SAE mode is also activated, you can use the TRAVEL MODE ACTIVATION button to toggle between SAE and TRAVEL as needed.



TRAVEL MODE – ACTIVATION

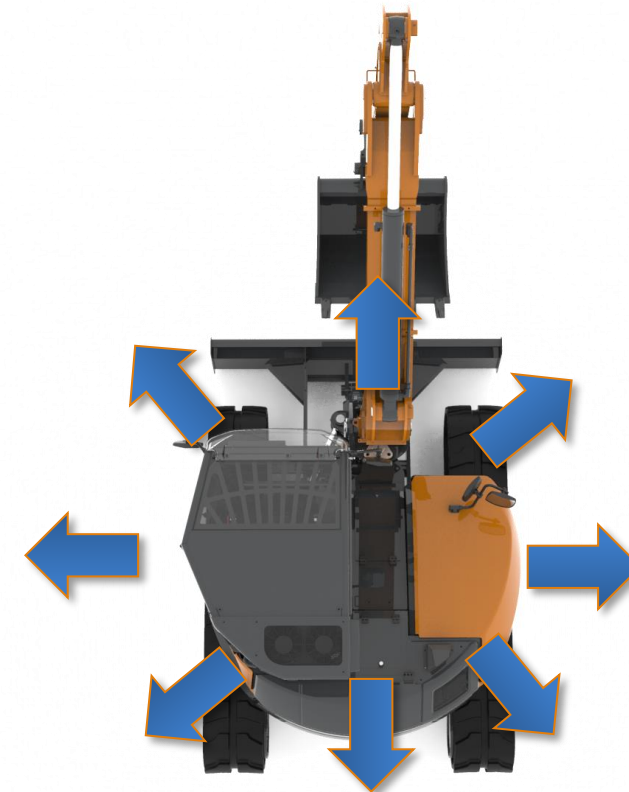
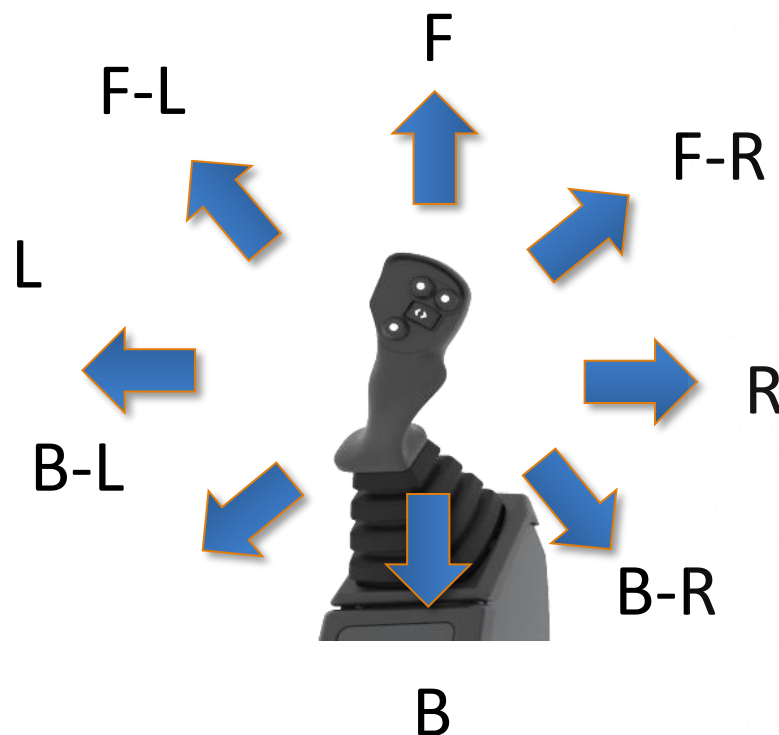


LEFT JOYSTICK ISO - TRAVEL MODE

- By activating drive mode, the machine is moved using the left joystick instead of the drive levers.
- **The turret rotation control** shifts to the AUX2 roller of the right joystick (AUX 2 is not usable at this time).
- **The dipper control shifts to the blade/boom roller** of the right joystick (the boom cannot be used at this time). The blade can, however, be activated using the blade activation button.



- F Front
- B Backward
- R Right
- L Left
- B-R Backward-right
- B-L Backward-left
- F-L Front-left
- F-R front-right

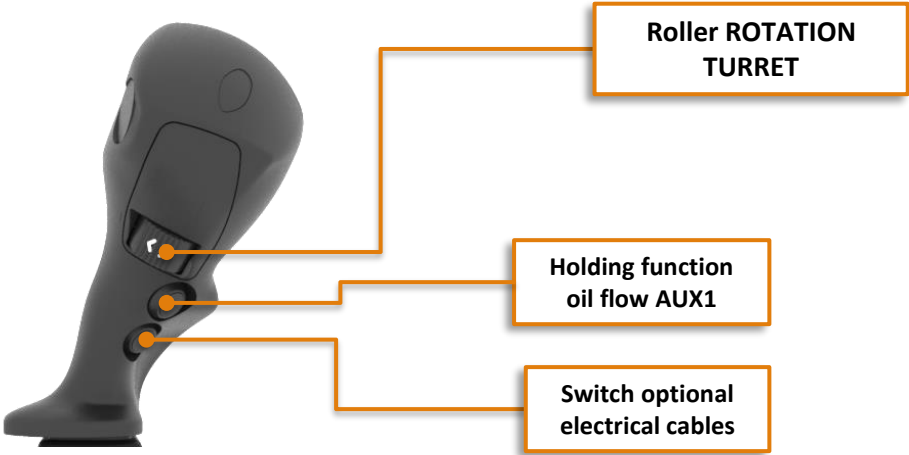


RIGHT JOYSTICK – TRAVEL MODE (ISO)

The right joystick controls the boom lift and lower and performs bucket movement.

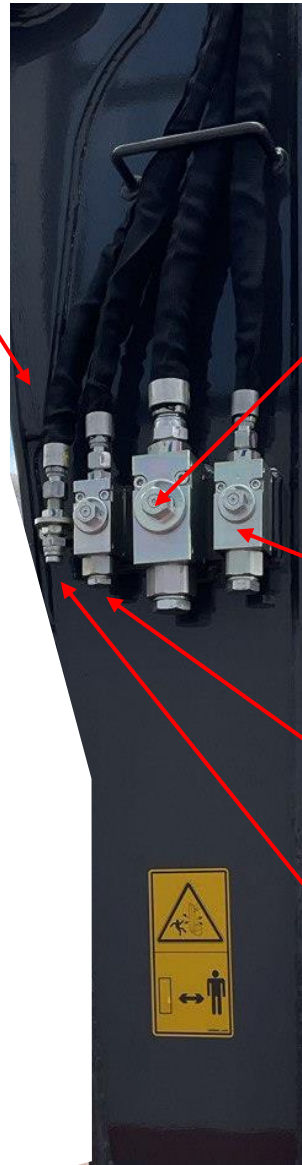
- 1. Move the joystick left to control bucket closing.
- 2. Move the joystick right to control bucket opening.
- 3. Move the joystick forward to lower the main boom.
- 4. Move the joystick backward to raise the main boom.

Der rechte Joystick verfügt je nach Maschinenmodell über drei Konfigurationsarten.



- REMARKS:**
- In Travel Mode, AUX 2 and the adjustable boom on the right joystick are not active.
 - If necessary, you can simply deactivate Travel Mode using the Travel Mode button on the left joystick. This will then take you to ISO Mode, where AUX 2 and the adjustable boom are active again.
 - The blade, however, can also be activated in Travel Mode using the Blade Activation button on the left joystick.

2.3.1 HYDRAULIC CIRCUITS AUX 1- AUX 2 AND AUX 3 AS WELL AS LEAKAGE OIL LINE



- Hydraulic circuit AUX 1 with single and double effect (ideal for hammer or earth drill) Single effect with high flow (100-107 Lt/min at constant 200 bar, about 10 liters more than previous model) ideal for milling machines and mulchers with electric switching
- Hydraulic circuit AUX 2 with low flow (right 70/ left 90 Lt/min) swivel and rotary movements
- Hydraulic circuit AUX 3 (standard) with low flow tilt and rotation movements
- Leak oil line (standard)



2.3.1 HYDRAULIC CIRCUITS AUX 1- AUX 2 AND AUX 3 AS WELL AS LEAKAGE OIL LINE



Hydraulic circuit AUX 1 test measurements

	Flow default company settings			Flow Setting 100%
	ECO (1800 rpm)	STD (2130 rpm)	PWR (2130 rpm)	PWR 100% (2130 rpm)
pressure (bar)	Flow (l/min)	Flow (l/min)	Flow (l/min)	Flow (l/min)
20	116	116	116	
30	115	116	116	165
40	114	114	114	163
50	114	113	113	163
60	113	113	113	162
70	112	112	112	161
80	112	111	111	160
90	111	110	110	159
100	111	110	110	156
110	110	109	109	155
120	110	108	108	154
130	109	108	108	150
140	108	107	107	143
150	107	107	107	137
160	107	106	106	130
170	102	105	105	125
180	97	104	104	119
190	92	104	103	113
200	87	100	102	107
210	83	96	101	101
220	78	91	99	95
230	74	87	96	91
240	69	82	91	87
250	65	76	87	82
260	60	73	82	78
270	56	67	75	72
280	49	57	59	63
290	29	34	40	38
300	0	0	0	0



Hydraulic circuit AUX 2 Right - test measurements

	Flow default company settings			Flow Setting 100%
	ECO (1800 rpm)	STD (2100 rpm)	PWR (2100 rpm)	PWR 100% (2100 rpm)
pressure (bar)	Flow (l/min)	Flow (l/min)	Flow (l/min)	Flow (l/min)
70	61	61	61	
80	60	60	60	66
90	60	60	59	65
100	59	59	59	64
110	59	59	58	63
120	58	58	57	63
130	58	57	57	62
140	57	57	56	61
150	56	56	55	61
160	55	55	55	60
170	55	54	54	59
180	54	54	53	59
190	53	53	52	58
200	53	53	52	57
210	52	52	51	56
220	51	51	50	47
230	49	49	49	45
240	44	44	44	43
250	39	39	39	38
260	33	33	32	33
270	26	26	25	25
280	16	18	15	16
290	0	0	0	0

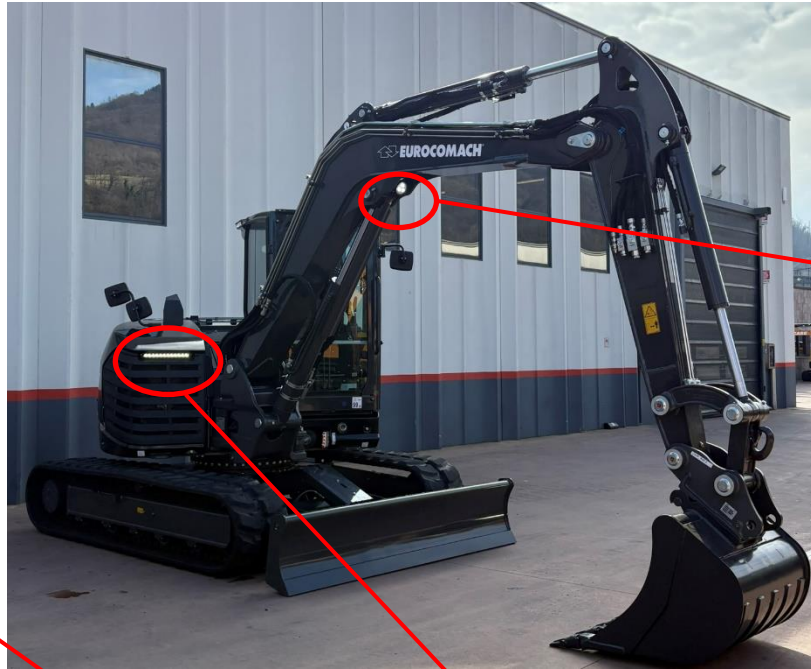
2.3.2. PREPARATIONS FOR HYDRAULIC QUICK COUPLER (OPT.)



Eurocomach has three different preparations for hydraulic quick couplers:

- **Single-acting hydraulic QC** preparation with **single pressure regulation**(one line)
- **Double-acting hydraulic QC** preparation **with one pressure setting** (two lines as in the illustration on the left → Both lines can only be set to one pressure, i.e., the hydraulic SW should use the same pressure when opening and closing)
- **Double-acting hydraulic QC** preparation **with double pressure setting** (two lines as in the illustration on the left → Both lines can be set differently, i.e., also works with hydraulic QC that uses different pressures when opening and closing), such as the Rädlinger or Rototilt used in our factory offer.

2.4.1. LIGHTING OPTIONS - FRONT



The models 85SB – 90ZT – 95UR - 100 TR are equipped with:

- Standard LED work lights in the boom
- Standard LED bar on the front of the engine hood above the radiator opening
- Standard LED bar on the front of the cab
- Optional kit of three LED bars (3 at the rear)
- New: Machine features two small LED bars in each of the lower hoods of the upper structure
- Per bar: 60 watts - 5400 lumens, excellent visibility up to 25 meters

2.4.2. LIGHTING OPTIONS – REAR AND SIDE



The 85SB – 90ZT – 95UR – 100 TR models are equipped:

- **LED work lights** in the boom as standard
- **LED bar on the front of the hood above the radiator** opening as standard
- **LED bar on the front of the cab** as standard
- A kit of (3 at the rear) is available as an option **three LED bars**
- **New: standard two small LED bars** in each of the lower hoods of the upper structure
- 60 watts - 5400 lumens per bar for excellent visibility up to 25 meters



2.5. TRANSPORT SECURITY AND ROAD SAFETY

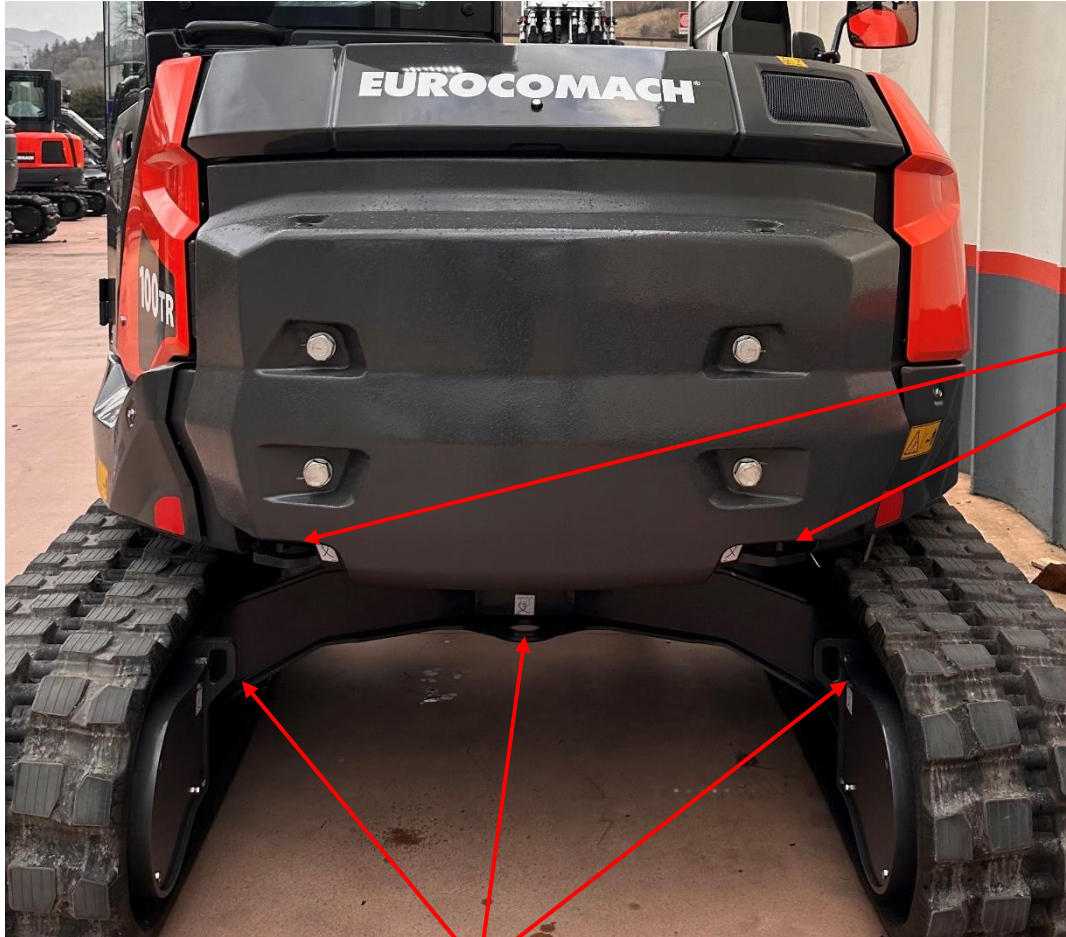
Transport securing on trucks and trailers is always a top priority during traffic controls. It is increasingly becoming apparent that the existing undercarriage mounting brackets often have a lashing angle that is too flat (<45 degrees). The 85SB – 90ZT – 95UR and 100 TR models features:

- This is why all models also have four fixing points also on the turret.
- Two at the front and two at the rear.
- Standard fixing points on the undercarriage.

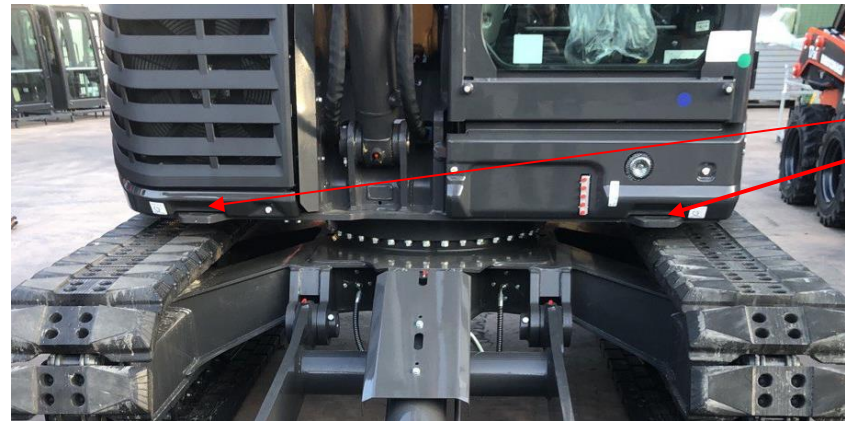


2.6. TRANSPORT SECURITY AND ROAD SAFETY

Transport securing on trucks and trailers is always a top priority during traffic checks. It is increasingly becoming apparent that the existing undercarriage mounting brackets often have a lashing angle that is too flat (<45 degrees). The 85SB – 90ZT – 95UR and 100 TR models feature:



Fixing eyelets in the undercarriage



Fixing eyelets in the turret

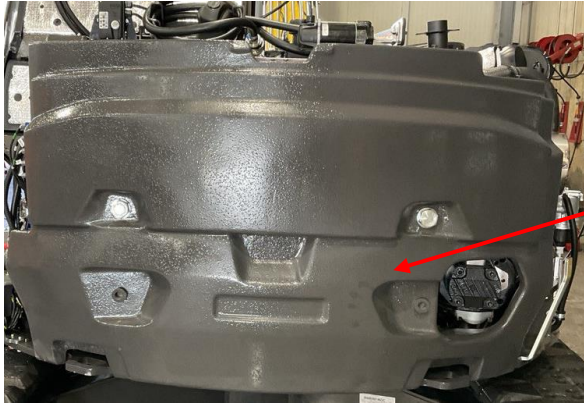
2in the front

- This is why all models also have four fixing points also on the turret.
- Two at the front and two at the rear.
- Standard fixing points on the undercarriage.



2.6. STABILITY AND ADDITIONAL WEIGHTS:

- To increase stability, for example, when using a long boom or a tilt motor, the **85SB – 90ZT – 95UR, and 100 TR models** offer the option of installing two different additional rear weights.
- **440 kg** – installed internally as usual – standard on the 100 TR
- **900 kg** – 120 mm rear overhang instead of the 90 kg cover weight



Main ballast without cover weight



Additional rear ballast 900 kg



Cover weight 90 kg



Additional rear ballast of 440 kg is installed inside the backpack (standard on 100 TR)

2.7.1. SAFETY ON MINI-EXCAVATORS AND CONSTRUCTION MACHINERY – REAR VISIBILITY ON CABIN-MOUNTED MACHINERY

The new European CE Directive (EN 474-1:2022 and EN 474-5:2022) will come into force on February 1, 2025.

Only machines (mini and midi excavators and skid steer loaders) that meet the following requirements may be placed on the EU market:

Rear view:

- a. Cabin mini excavators weighing 3.5 tons or less (for our range from **15 ZT** to **35 ZT**) must be equipped with an additional rearview mirror on the right side of the cabin. (Machines in the same segment equipped with a canopy are not affected by this requirement.)
- b. Cab mini and midi excavators weighing over 3.5 tons (for our range from **42 ZT** to **100 TR**) must be equipped with a rearview camera. (Machines in the same segment equipped with a canopy are not affected by this requirement.)
- c. Compact wheel and track loaders (for our range, the **17 SK**, **18 TL**, **19 SK**, and **20 TL** models) must be equipped with a rearview camera, both in the canopy and cabin versions.

The rear camera is therefore installed as standard on models 85 SB – 90 ZT – 95 UR and 100 TR – LED bars can be added as an option.



2.7.2. MINE EXCAVATOR SAFETY – PREPARATION FOR MATERIAL MOVEMENT

The new European CE Directive (EN 474-1:2022 and EN 474-5:2022) will come into force on February 1, 2025.

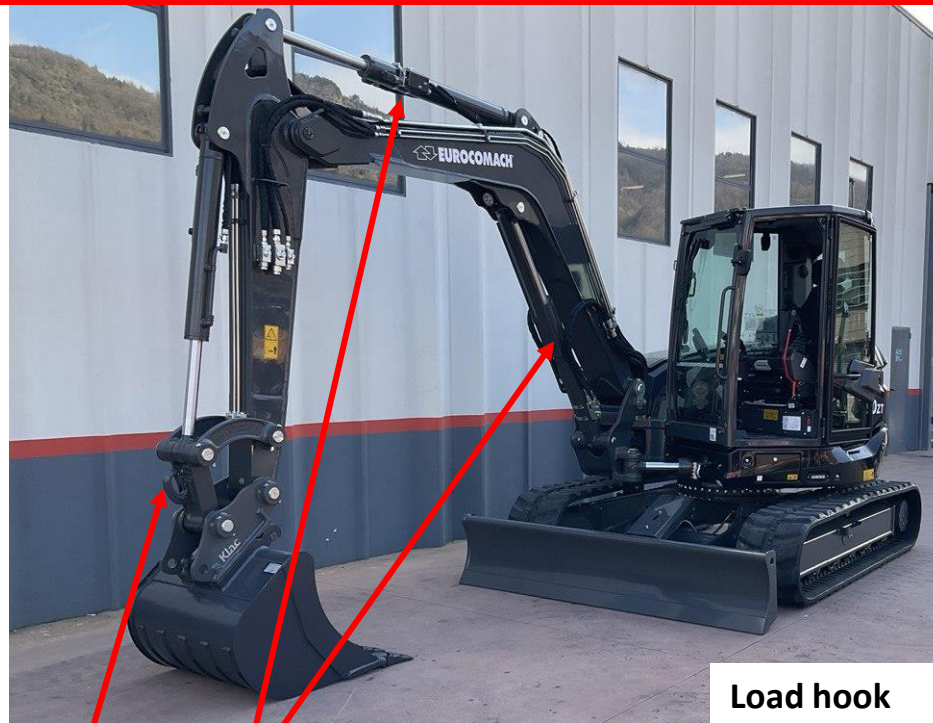
Only machines (mini and midi excavators and skid steer loaders) that meet the following requirements may be placed on the EU market:

Preparation for material movement

Mini and midi excavators with a lifting capacity of more than 1 tonne (for our range from **28ZT** to **100 TR**) must be equipped as follows:

- Load-holding valves on the boom and stick cylinders
- Acoustic overload warning device
- Lifting capacity chart, mounted and positioned in the driver's area (the certified load hook on the rod is not mandatory but remains optionally available)

Note: Models with a lifting capacity of less than 1 ton (for our **15ZT to 25ZT range, including the two electric mini excavators, the 15X and 25X**) are not affected by this requirement. Material handling preparation and the certified load hook remain available as options.



Load hook on rod (opt.)

Load holding valves

Load hook on rod (opt.)



The models 85 SB – 90 ZT – 95 UR and 100 TR therefore come with the following as standard:

- Load-holding valves on the boom and stick cylinders (with TR adjustable boom cylinders)
- Acoustic overload warning device
- Lifting capacity chart, mounted and positioned in the operator's area (The certified load hook on the rod is not mandatory but remains optionally available)

2.7.3. MINIEXCAVATOR SAFETY – PROTECTION FROM ABOVE, FOPS LEVEL II

The new European CE Directive (EN 474-1:2022 and EN 474-5:2022) will come into force on February 1, 2025.

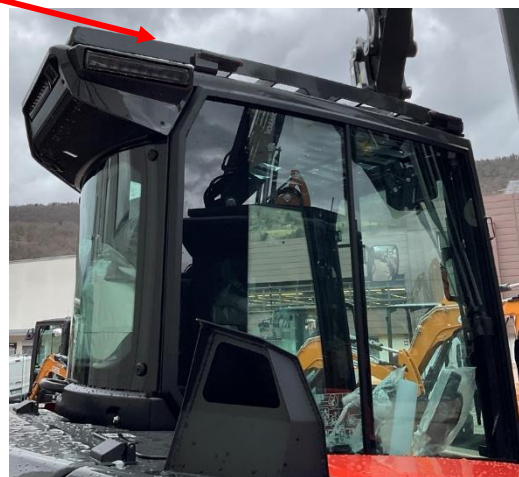
Only machines (mini and midi excavators and skid steer loaders) that meet the following requirements may be placed on the EU market:

Protection from above FOPS Level II:

- a. Midi excavators weighing 6 tonnes or more (for our **60ZT** to **100 TR** range) must be equipped with a FOPS Level II-certified upper cab guard (models weighing less than 6 tonnes are not affected by this regulation).
- b. For compact wheel loaders, the directive applies to models over 4.5 tonnes, and for compact track loaders, to models over 6 tonnes; therefore, the models in our range (**17 SK**, **18 TL**, **19 SK**, and **20 TL**) are not affected by the directive.



The models 85 SB – 90 ZT – 95 UR and 100 TR are therefore equipped as standard with a removable and hinged upper cabin safety guard with FOPS Level II certification.



2.9. MAINTENANCE COMFORT – LARGE MAINTENANCE HOODS & FOLDABLE CAB

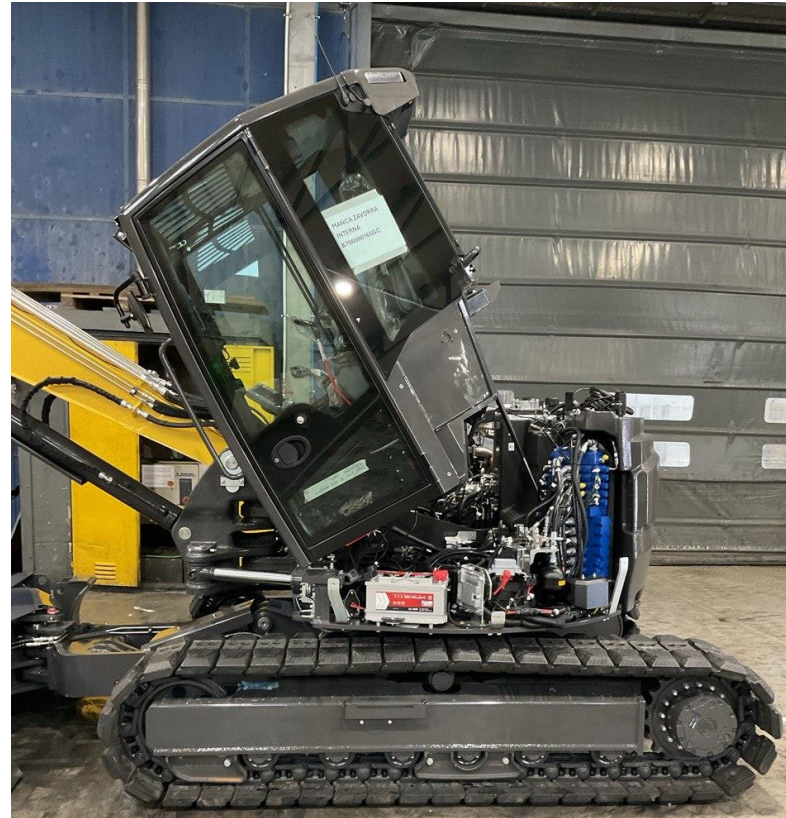


- Thanks to the large side panels and the tailgate with integrated access openings in the rear weight, daily maintenance work is easy.
- All side panels can be easily removed with just a few screws.
- On all mentioned models, the cab folds down. This allows easy access to the main hydraulic components.



2.9.1. UNIQUE SPACE CONCEPT: BASED ON THE 42 ZT – 75 TR MODELS FOR EVEN MORE MAINTENANCE CONVENIENCE

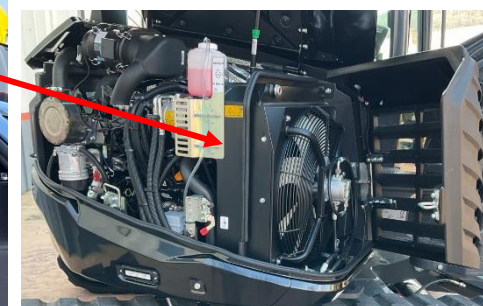
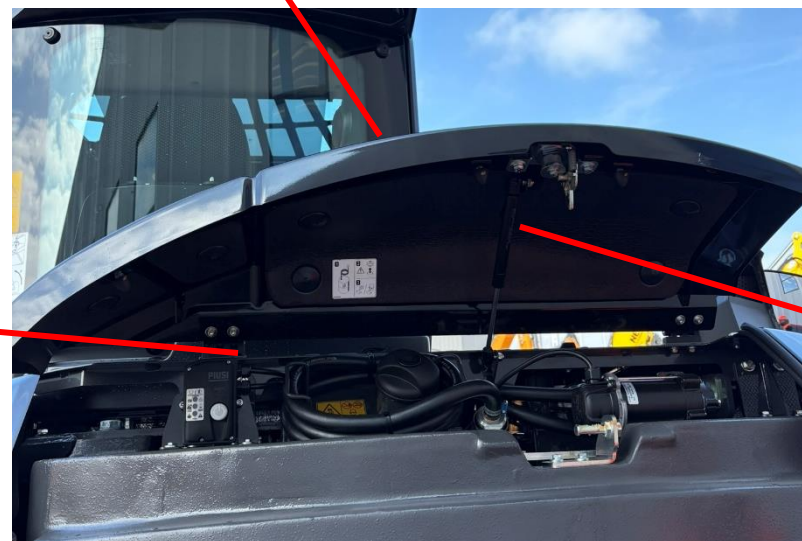
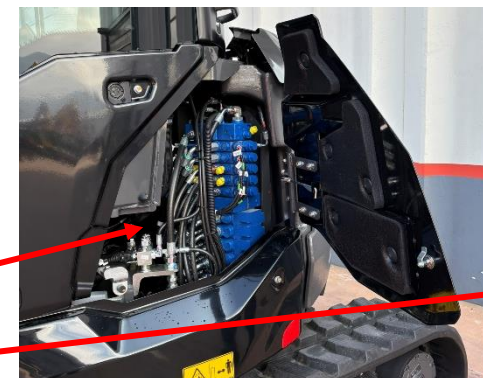
- The side-mounted engine not only improves cabin comfort but also significantly improves maintenance accessibility.
- This is complemented by the hole in the rear end and the folding cabin, **providing extremely convenient maintenance.**



2.9.2. MAINTENANCE CONVENIENCE: HOODS AND SIDE ENGINE CONCEPT

By opening the hoods and covers you have access to all the main elements of the machine for daily maintenance:

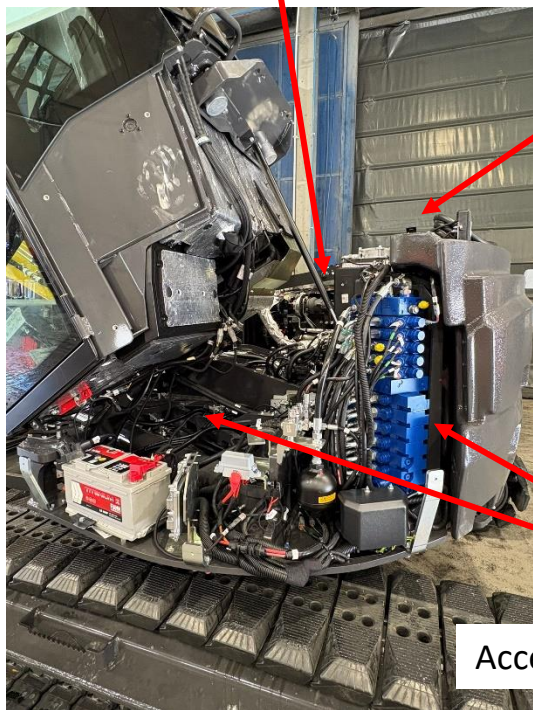
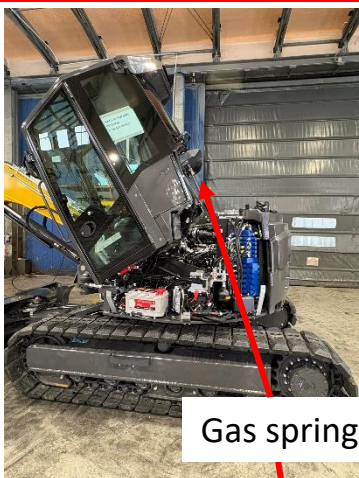
- Air filter, fuel filter,
- battery, alternator, compressor, injection pump, radiator,
- oil and fuel tanks (shown with standard diesel refueling pump)
- 90 ZT 100 TR models have a toolbox to the right of the cab



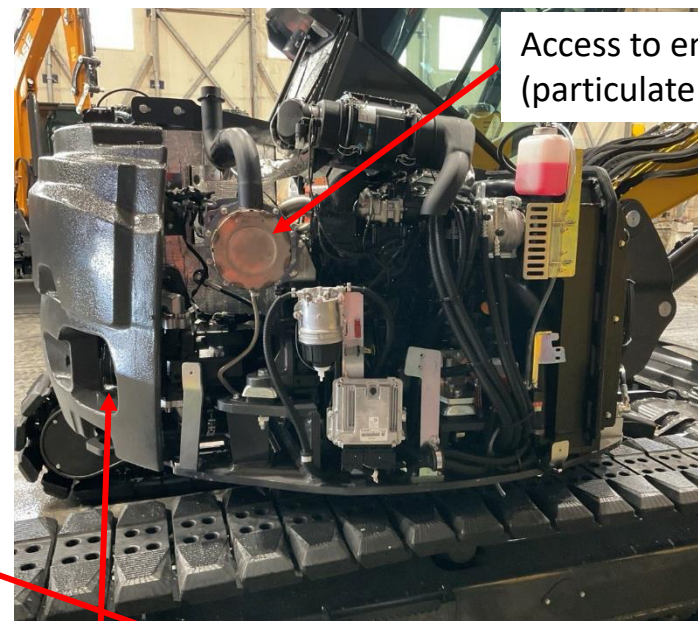
2.9.3. MAINTENANCE CONVENIENCE: FOLDABLE CAB – SIDE PANELS AND REAR WEIGHT

By folding down the cabin and removing all screwed-on panels and the cover weight, you have access to all components of the extraordinary maintenance:

- Hydraulics and control valve (under the cab and on the side under the cover)
- LS pump (under the cover weight)
- Particulate filter and fan drive (under the right hood)



Access to hydraulics and diesel tank



3.1. TECHNICAL DATA – 85 SB – EVOLUTION 2025

Transport weight with rubber tracks	kg	8500
Transport weight with steel tracks	kg	8900
Travel speed (AUTO TWO SPEED)	km/h	1a: 0 ÷ 2,6 / 2a: 0 ÷ 5,2
Upper frame rotation speed	rpm	9.5

ENGINE

Type	Yanmar 4TNV98CT Stage V - Tier 4 Final	
Max. Power (2.100 rpm)	kW - HP	53.7 - 73
Displacement	cc	3319
Cylinders	n°	4
Cooling	Liquid	
Fuel consumption (65% max power)	l/h	9.3
Alternator	V (A)	12 (80)
Battery	V (Ah/A)	12 (100/900)

HYDRAULIC SYSTEM

Circuit Type	eHPQ Rexroth system	
Pump type	1 electronic pump (EOC) with variable flow rate + 1 gear pump on engine PTO (FAN DRIVE)	
Pump displacement	cc	100 + 14
Pump capacity	l/min	192 + 27
Max. circuit calibration pressure	bar	290
Flow rate (max pressure) auxiliary system AUX1	l/min (bar)	100 (200)
Flow rate (max pressure) auxiliary system AUX2	l/min (bar)	70 left - 90 right (290)
Flow rate (max pressure) auxiliary system AUX3	l/min (bar)	50 left - 50 right (250)

PERFORMANCES

Digging depth with standard arm (long arm)	mm	3670 (4020)
Max. dumping height with standard arm (long arm)	mm	5180 (5420)
Bucket breaking force ISO 6015	daN	6300
Standard arm breakout force ISO 6015 (long arm)	daN	4350 (3850)
Traction force	daN	7960
Specific ground pressure	kg/cm³	0.39
Max. slope	% / °	60 / 30

DIMENSIONS

Max. width	mm	2320
Total height with FOPS level 2 (without)	mm	2760 (2680)
Rear rotation radius	mm	1220
Digging arm length std (optional)	mm	1760 (2110)
Tracks width	mm	450
Rollers number (for each side)	n°	5/1 (rubber track) 6/1 (steel track)

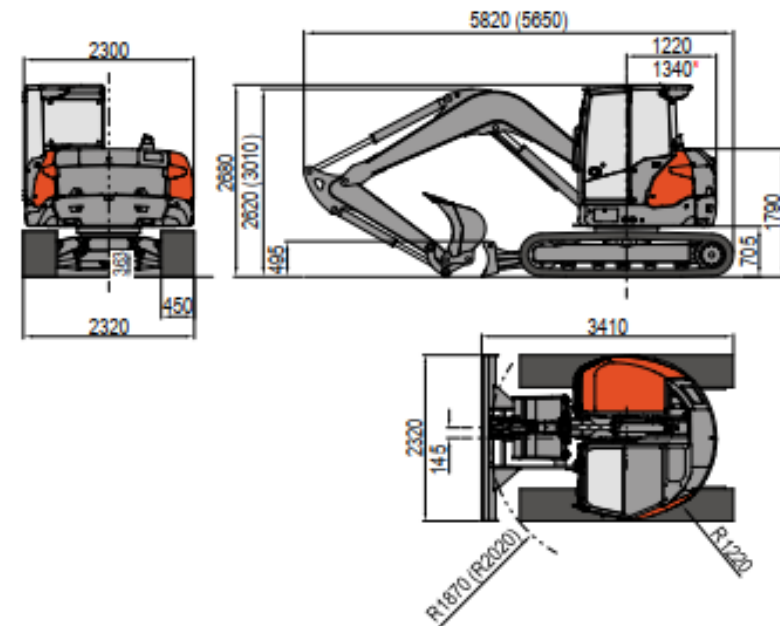
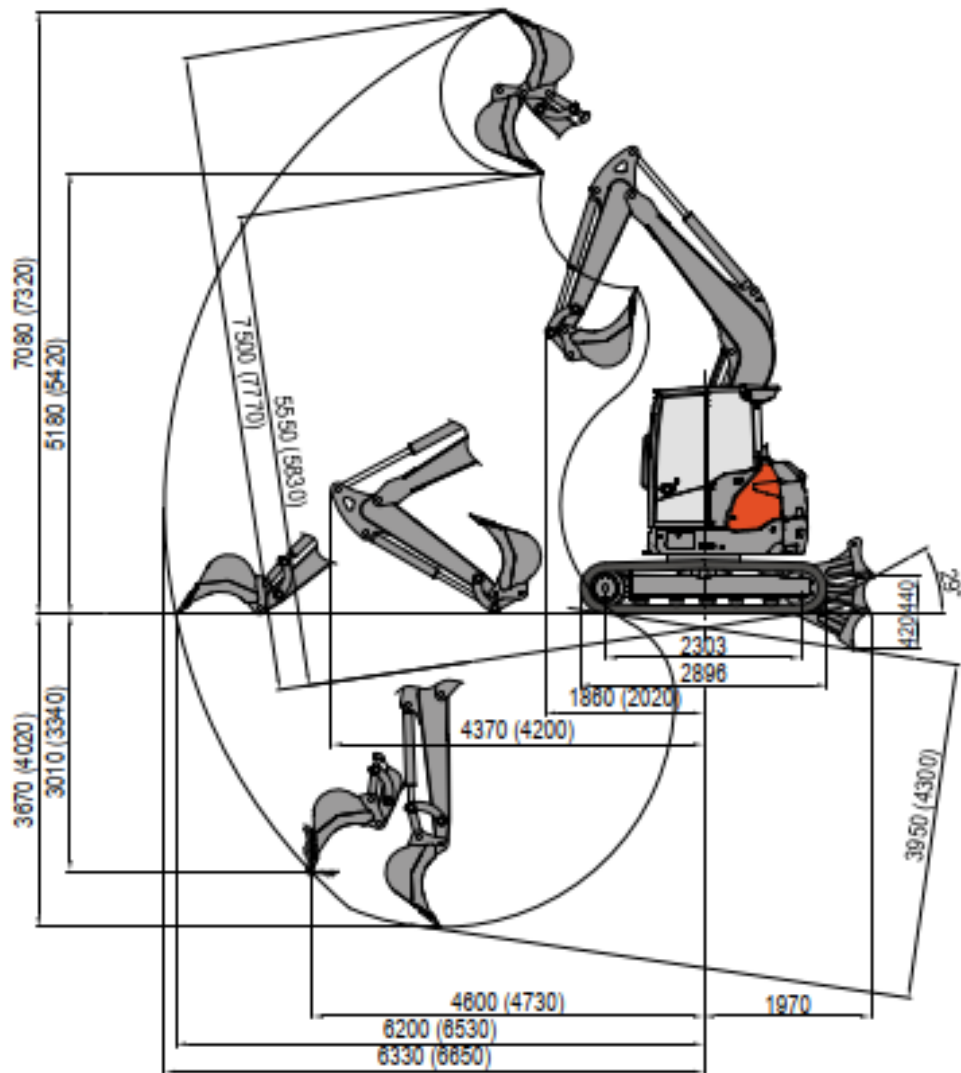
FILLINGS

Fuel tank	lt	105
Hydraulic oil tank	lt	85
Hydraulic system capacity	lt	135
Cooling system capacity	lt	23
Engine oil	lt	10

CONTROLS

Boom, dipper stick, bucket and upper frame swing	2 CAN-bus electronic joysticks
Tracks mouvement (included counter rotation)	2 CAN-bus electronic levers
Dozer blade	1 CAN-bus electronic joystick
AUX1 auxiliary system	1 CAN-bus electronic roller on right joystick
AUX2 auxiliary system	1 CAN-bus electronic roller on right joystick
AUX3 auxiliary system	1 CAN-bus electronic roller on left joystick

3.1. TECHNICAL DATA – 85 SB – EVOLUTION 2025



LIFTING CAPACITY

Opening arm from the rotation's center (m) Lifting capacity (kg) at 1 m height

	3	4	5	MAX
Frontal and lowered dozer blade	*4420	*3250	*2610	*2420
Frontal and lifted dozer blade	3540	2270	1630	1470
Lateral	2750	1820	1320	1200

* Indicates the hydraulic load limit.

The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.

3.2. TECHNICAL DATA – 90 ZT – EVOLUTION 2025

Transport weight with rubber tracks	kg	8880
Transport weight with steel tracks	kg	9280
Travel speed (AUTO TWO SPEED)	km/h	1a: 0 ÷ 2,6 / 2a: 0 ÷ 5,2
Upper frame rotation speed	rpm	9.5

ENGINE

Type	Yanmar 4TNV98CT Stage V - Tier 4 Final	
Max. Power (2.100 rpm)	kW - HP	53.7 - 73
Displacement	cc	3319
Cylinders	n°	4
Cooling	Liquid	
Fuel consumption (65% max power)	l/h	9.3
Alternator	V (A)	12 (80)
Battery	V (Ah/A)	12 (100/900)

HYDRAULIC SYSTEM

Circuit Type	eHPQ Rexroth system	
Pump type	1 electronic pump (EOC) with variable flow rate + 1 gear pump on engine PTO (FAN DRIVE)	
Pump displacement	cc	100 + 14
Pump capacity	l/min	192 + 27
Max. circuit calibration pressure	bar	290
Flow rate (max pressure) auxiliary system AUX1	l/min (bar)	100 (200)
Flow rate (max pressure) auxiliary system AUX2	l/min (bar)	70 left - 90 right (290)
Flow rate (max pressure) auxiliary system AUX3	l/min (bar)	50 left - 50 right (250)

PERFORMANCES

Digging depth with standard arm (long arm)	mm	4130 (4480)
Max. dumping height with standard arm (long arm)	mm	4660 (4880)
Bucket breaking force ISO 6015	daN	6300
Standard arm breakout force ISO 6015 (long arm)	daN	4350 (3850)
Traction force	daN	7960
Specific ground pressure	kg/cm ³	0.40
Max. slope	% / °	60 / 30

DIMENSIONS

Max. width	mm	2320
Total height with FOPS level 2 (without)	mm	2760 (2680)
Rear rotation radius	mm	1220
Digging arm length std (optional)	mm	1760 (2110)
Tracks width	mm	450
Rollers number (for each side)	n°	5/1 (rubber track) 6/1 (steel track)

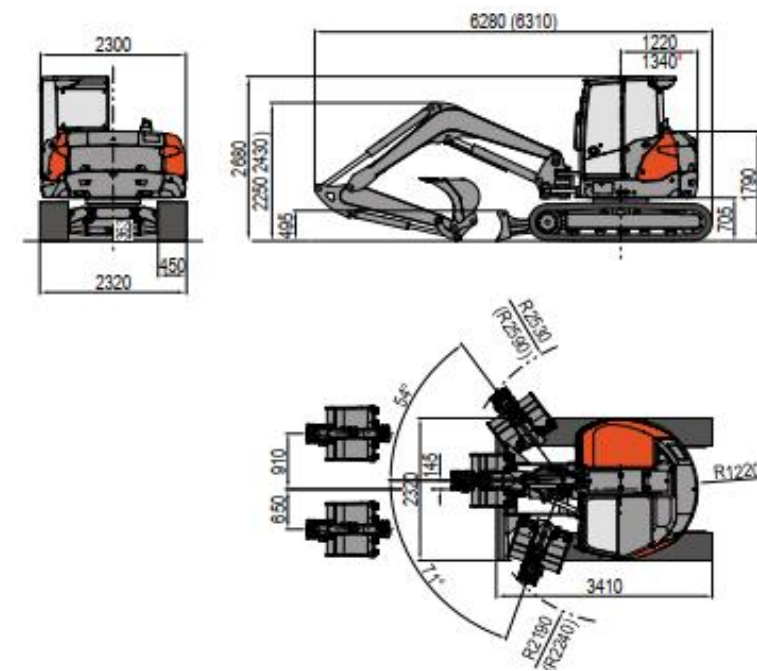
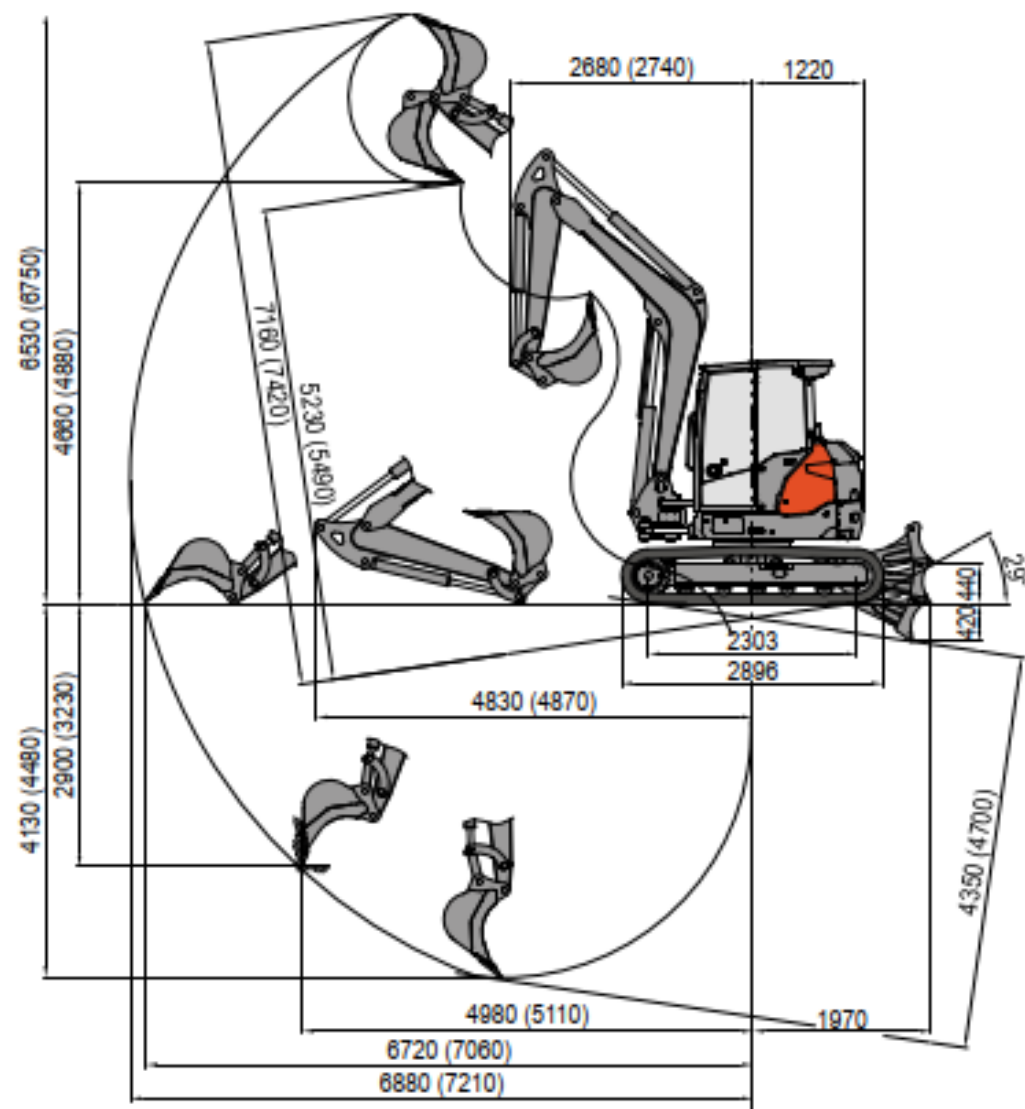
FILLINGS

Fuel tank	lt	105
Hydraulic oil tank	lt	85
Hydraulic system capacity	lt	135
Cooling system capacity	lt	23
Engine oil	lt	10

CONTROLS

Boom, dipper stick, bucket and upper frame swing	2 CAN-bus electronic joysticks
Tracks movement (included counter rotation)	2 CAN-bus electronic levers
Dozer blade	1 CAN-bus electronic joystick
AUX1 auxiliary system	1 CAN-bus electronic roller on right joystick
AUX2 auxiliary system	1 CAN-bus electronic roller on right joystick
AUX3 auxiliary system	1 CAN-bus electronic roller on left joystick
Boom swing	1 CAN-bus electronic roller on left joystick

3.2. TECHNICAL DATA – 90 ZT – EVOLUTION 2025



LIFTING CAPACITY

Opening arm from the rotation's center (m) Lifting capacity (kg) at 1 m height

	3	4	5	MAX
Frontal and lowered dozer blade	*5610	*3520	*2680	*2290
Frontal and lifted dozer blade	3250	2110	1520	1200
Lateral	2540	1710	1250	990

* Indicates the hydraulic load limit.

The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.

3.3. TECHNICAL DATA – 100 TR – EVOLUTION 2025

Transport weight with rubber tracks	kg	9750
Transport weight with steel tracks	kg	10150
Travel speed (AUTO TWO SPEED)	km/h	1a: 0 ÷ 2,6 / 2a: 0 ÷ 5,2
Upper frame rotation speed	rpm	9.5

ENGINE

Type	Yanmar 4TNV98CT Stage V - Tier 4 Final	
Max. Power (2.100 rpm)	kW - HP	53.7 - 73
Displacement	cc	3319
Cylinders	n°	4
Cooling	Liquid	
Fuel consumption (65% max power)	l/h	9.3
Alternator	V (A)	12 (80)
Battery	V (Ah/A)	12 (100/900)

HYDRAULIC SYSTEM

Circuit Type	eHPQ Rexroth system	
Pump type	1 electronic pump (EOC) with variable flow rate + 1 gear pump on engine PTO (FAN DRIVE)	
Pump displacement	cc	100 + 14
Pump capacity	l/min	192 + 27
Max. circuit calibration pressure	bar	290
Flow rate (max pressure) auxiliary system AUX1	l/min (bar)	100 (200)
Flow rate (max pressure) auxiliary system AUX2	l/min (bar)	70 left - 90 right (290)
Flow rate (max pressure) auxiliary system AUX3	l/min (bar)	50 left - 50 right (250)

PERFORMANCES

Digging depth with standard arm (long arm)	mm	4320 (4670)
Max. dumping height with standard arm (long arm)	mm	5960 (6270)
Bucket breaking force ISO 6015	daN	6300
Standard arm breakout force ISO 6015 (long arm)	daN	4350 (3850)
Traction force	daN	7960
Specific ground pressure	kg/cm ³	0.44
Max. slope	% / °	60 / 30

DIMENSIONS

Max. width	mm	2320
Total height with FOPS level 2 (without)	mm	2760 (2680)
Rear rotation radius	mm	1220
Digging arm length std (optional)	mm	1760 (2110)
Tracks width	mm	450
Rollers number (for each side)	n°	5/1 (rubber track) 6/1 (steel track)

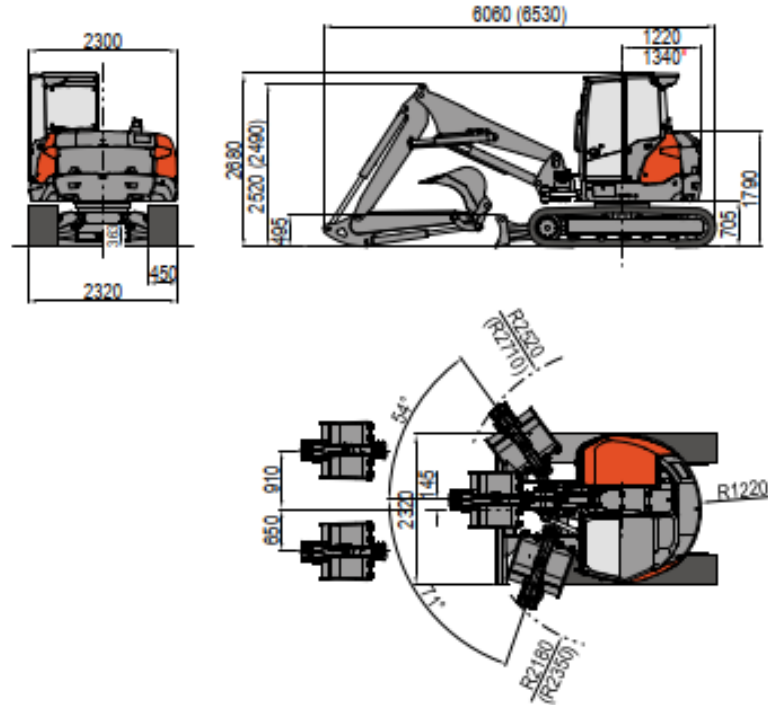
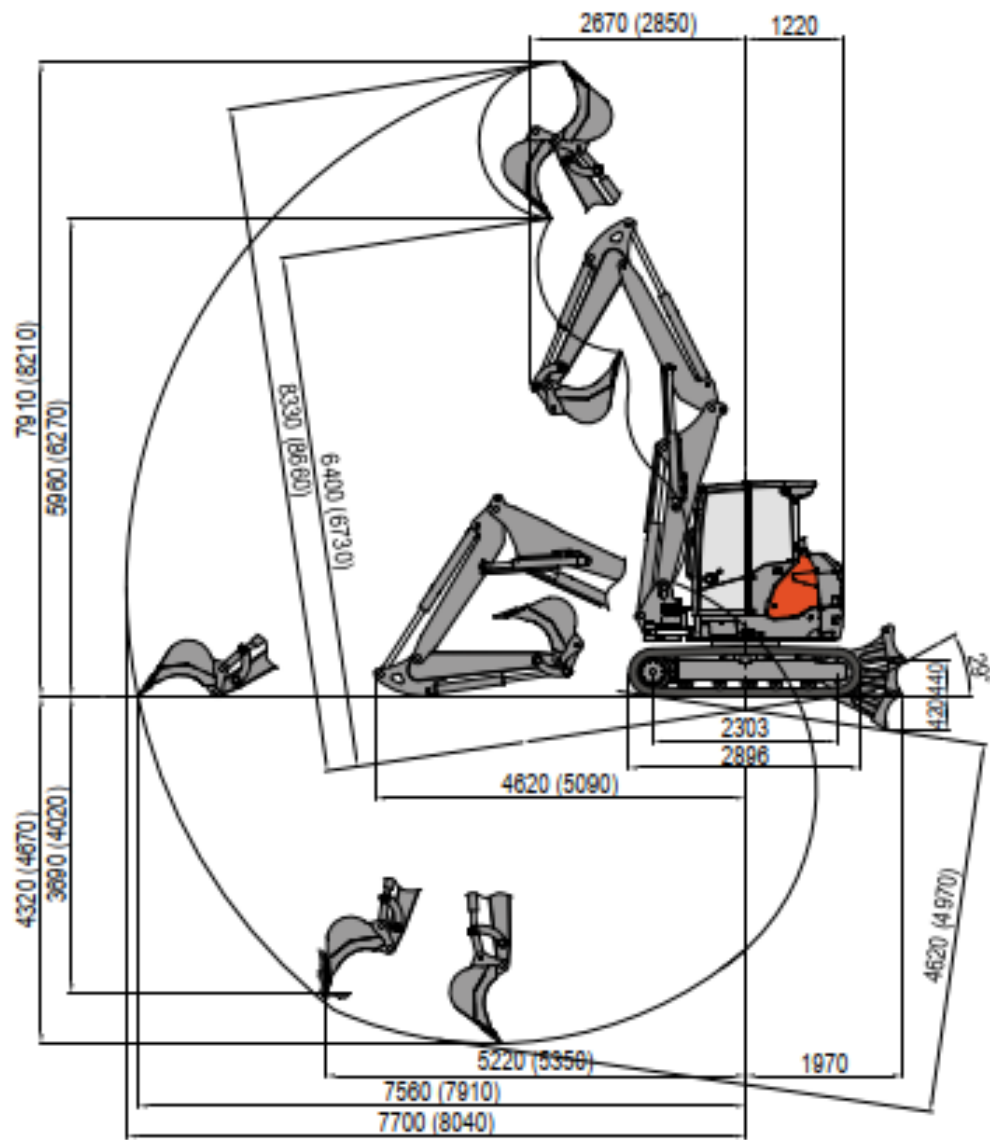
FILLINGS

Fuel tank	lt	105
Hydraulic oil tank	lt	85
Hydraulic system capacity	lt	135
Cooling system capacity	lt	23
Engine oil	lt	10

CONTROLS

Boom, dipper stick, bucket and upper frame swing	2 CAN-bus electronic joysticks
Tracks movement (included counter rotation)	2 CAN-bus electronic levers
Dozer blade	1 CAN-bus electronic joystick
AUX1 auxiliary system	1 CAN-bus electronic roller on right joystick
AUX2 auxiliary system	1 CAN-bus electronic roller on right joystick
AUX3 auxiliary system	1 CAN-bus electronic roller on left joystick
Boom swing	1 CAN-bus electronic roller on left joystick
Two pieces boom	1 CAN-bus electronic roller on right joystick

3.3. TECHNICAL DATA – 100 TR – EVOLUTION 2025



LIFTING CAPACITY

Opening arm from the rotation's center (m) Lifting capacity (kg) at 1 m height

	3	4	5	6	MAX
Frontal and lowered dozer blade	*4270	*2900	*2510	*2080	*1760
Frontal and lifted dozer blade	3570	2170	1600	1230	1040
Lateral	2600	1620	1210	940	790

* Indicates the hydraulic load limit.

The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.

APPENDIX 1: DETAILS OF DISPLAY TERA 7



New display TERA7 consisting of:

- Display screen
- No. 5 function key buttons

Operation can be done via: screen, function key buttons or scroll wheel on the side board

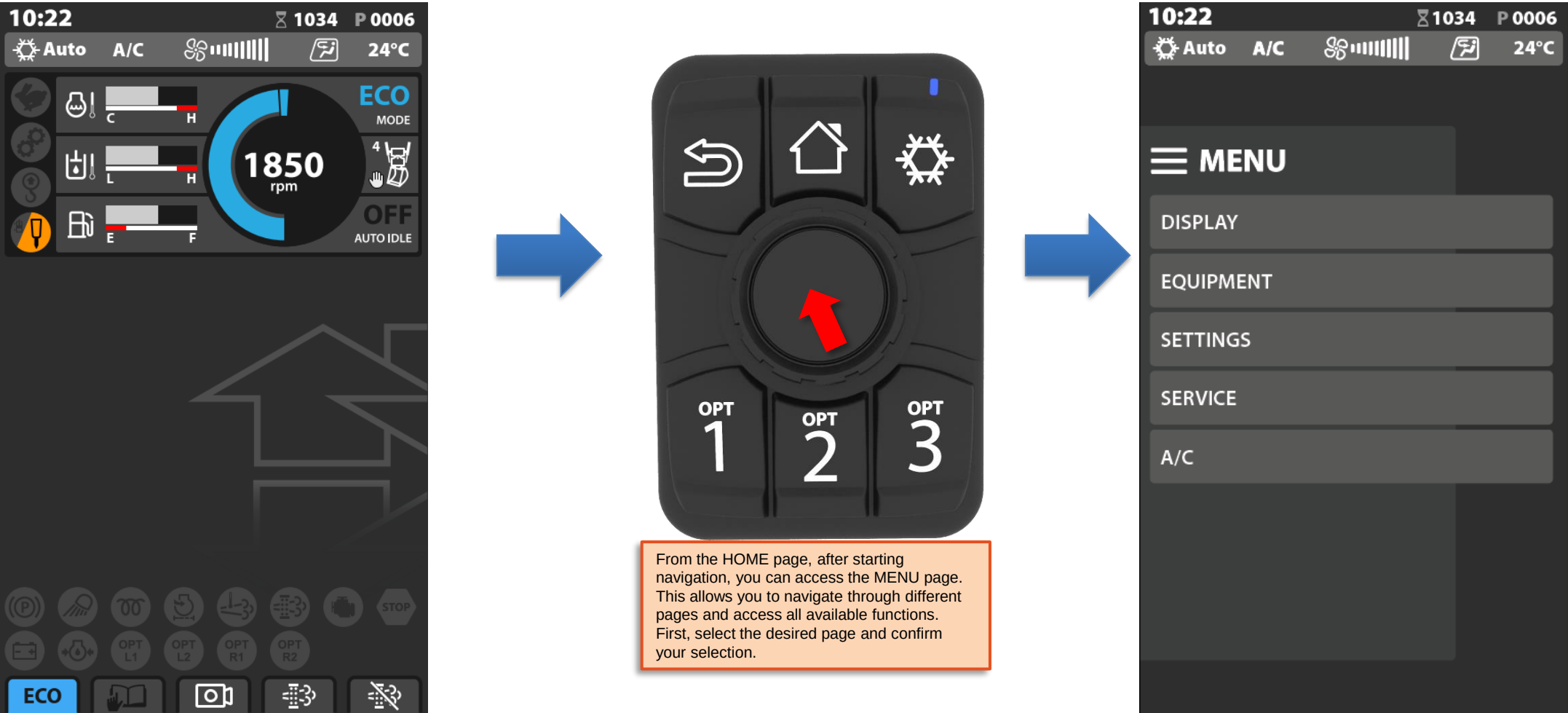
Scroll wheel



HOME button

RESET/ RETURN button

DISPLAY - SCREEN MENU



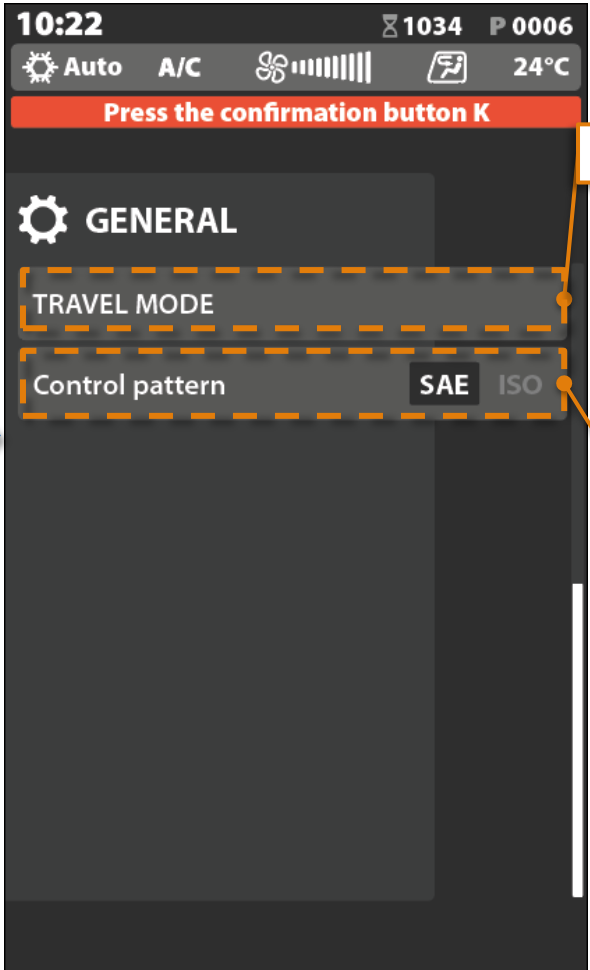
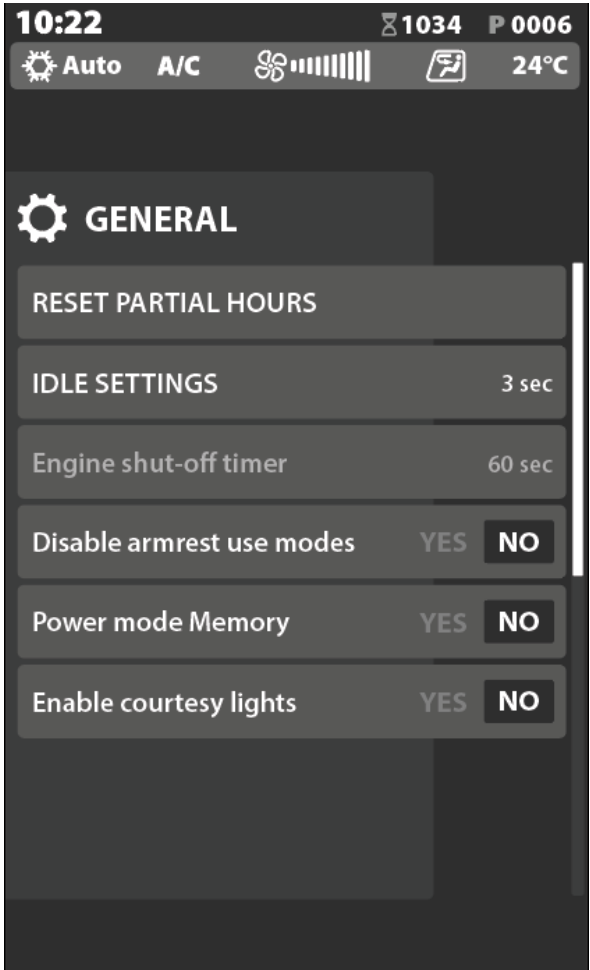
TRAVEL MODE – SAE CONTROL

The first release must always be made with the raised armrest.

ACTIVATION PROCEDURE – TRAVEL
MODE – SAE CONTROL:

Pre-activation Travel Mode

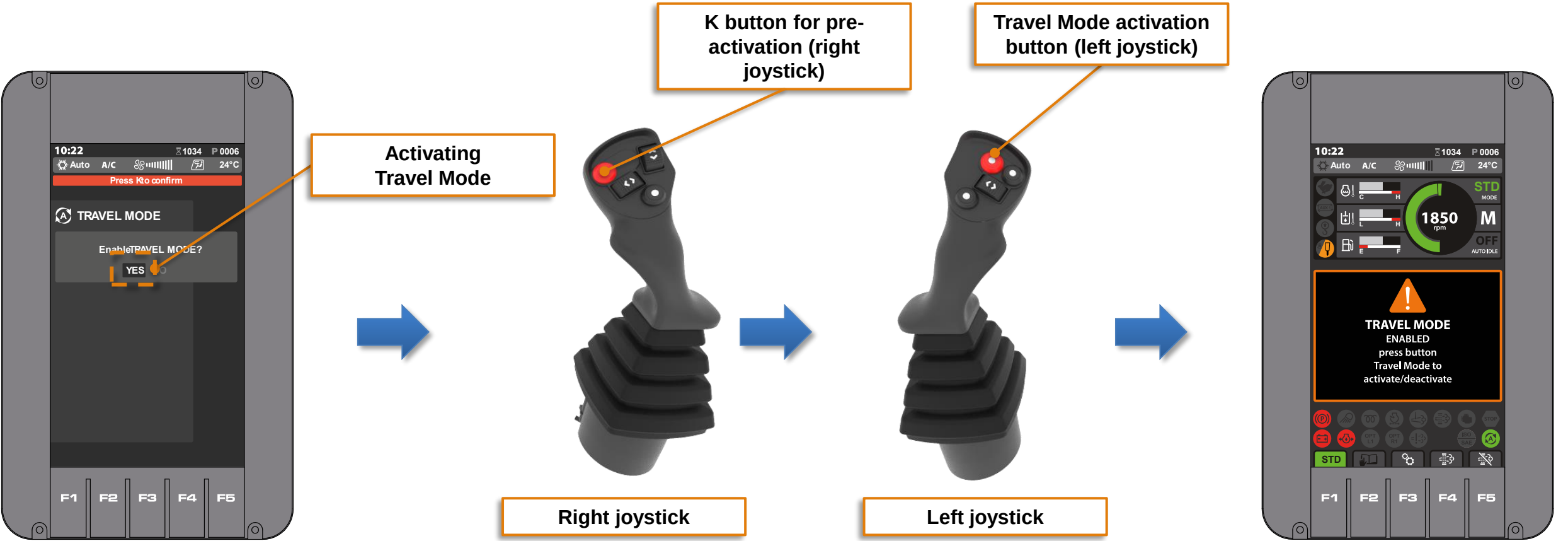
- Raise the armrest
- Select TRAVEL MODE or SAE control display under the menu.
- The display will ask if you really want to activate Travel Mode or SAE control. Confirm by pressing the K button.
- Once Travel Mode is activated, you can use the ACTIVATION TRAVEL MODE button to switch between ISO and TRAVEL as needed.
- If you also have SAE mode activated, you can use the ACTIVATION TRAVEL MODE button to switch between ISO and TRAVEL as needed.



Travel mode

Pattern mode
ISO/SAE

TRAVEL MODE - DRIVING MODE

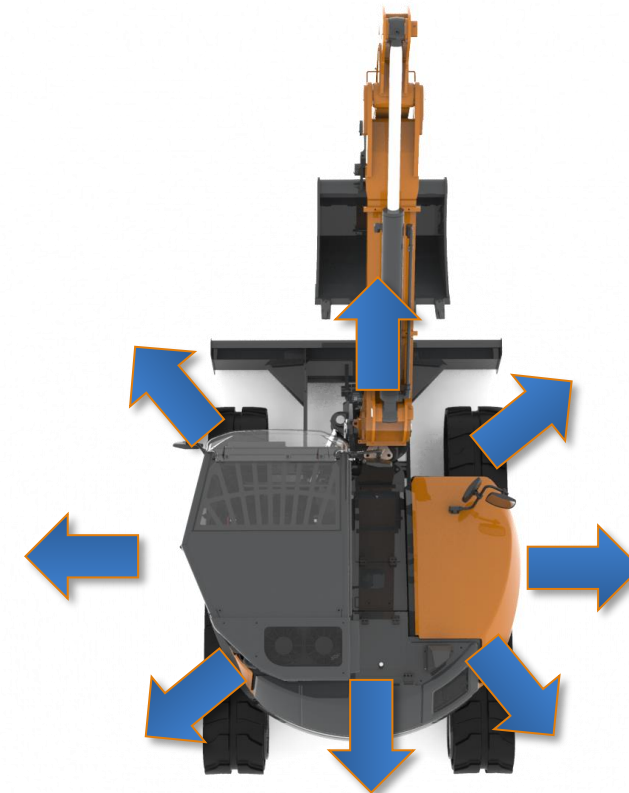
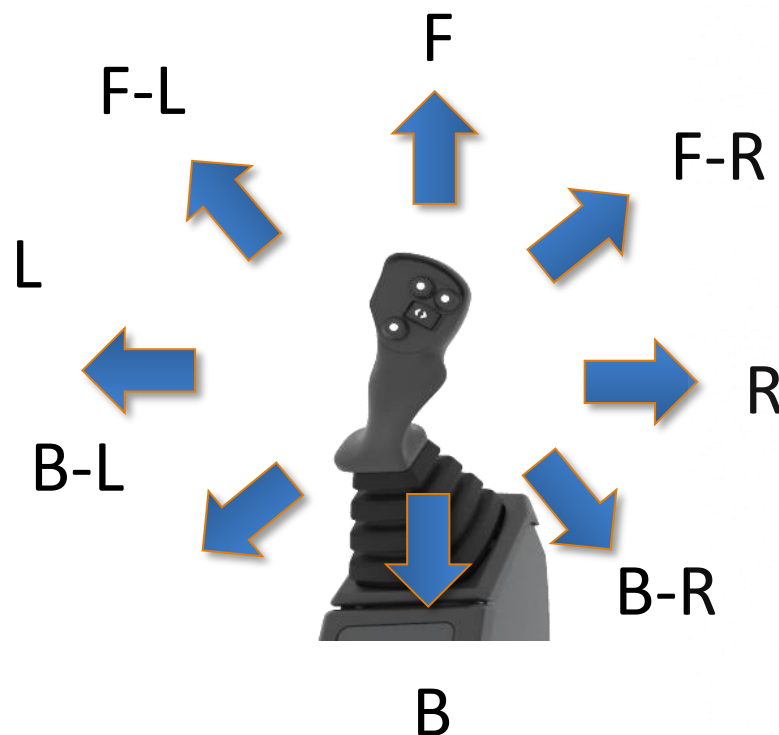


LEFT JOYSTICK ISO - TRAVEL MODE

- By activating drive mode, the machine is moved using the left joystick instead of the drive levers.
- The **turret rotation** control shifts to the **AUX2 roller on the right joystick** (AUX 2 is not usable at this time).
- The **dipper stick control** shifts to the **blade/ two pieces boom roller on the right joystick** (the two pieces boom cannot be used at this time). The blade can, however, be activated using the blade activation button.



- F Front
- B Backward
- R Right
- L Left
- B-R Backward-right
- B-L Backward-left
- F-L Front-left
- F-R front-right

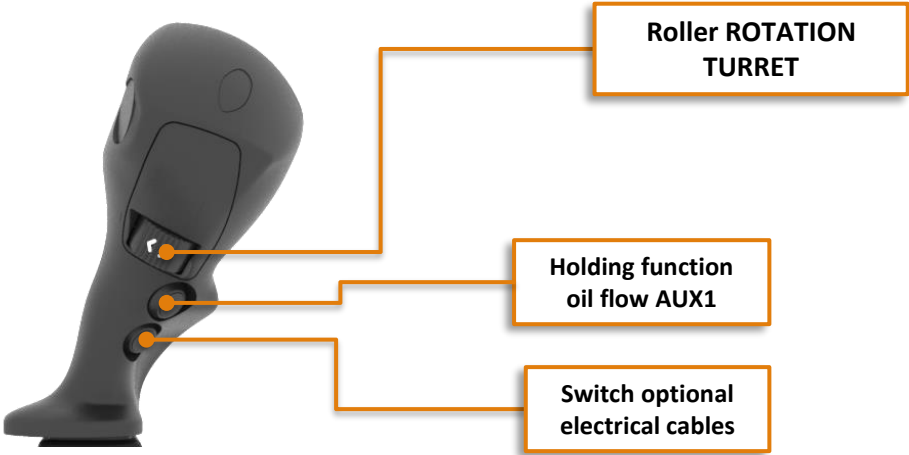


RIGHT JOYSTICK – TRAVEL MODE (ISO)

The right joystick controls the boom lift and lower and performs bucket movement.

- 1. Move the joystick left to control bucket closing.
- 2. Move the joystick right to control bucket opening.
- 3. Move the joystick forward to lower the main boom.
- 4. Move the joystick backward to raise the main boom.

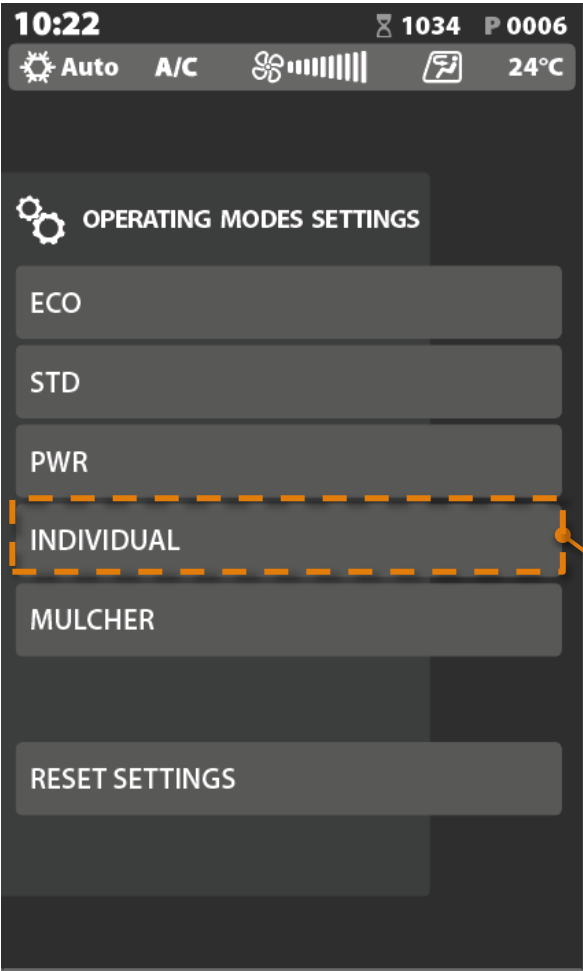
Der rechte Joystick verfügt je nach Maschinenmodell über drei Konfigurationsarten.



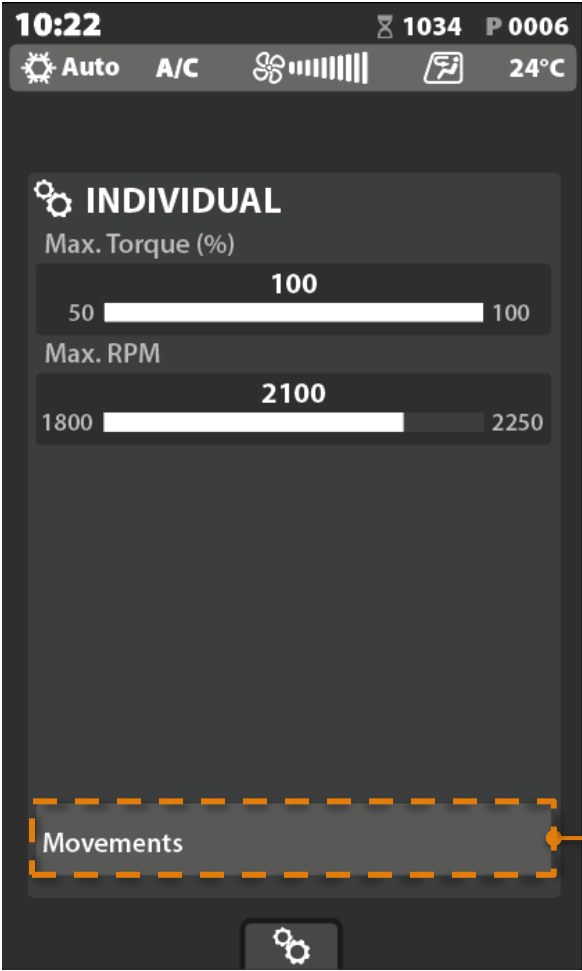
REMARKS:

- In Travel Mode, AUX 2 and the adjustable boom on the right joystick are not active.
- If necessary, you can simply deactivate Travel Mode using the Travel Mode button on the left joystick. This will then take you to ISO Mode, where AUX 2 and the adjustable boom are active again.
- The blade, however, can also be activated in Travel Mode using the Blade Activation button on the left joystick.

SPEED SETTINGS

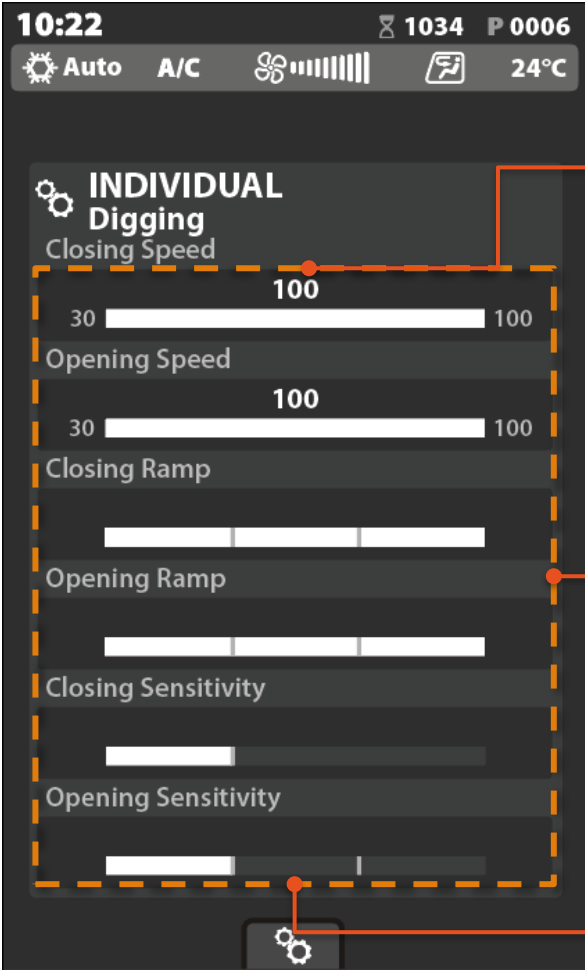
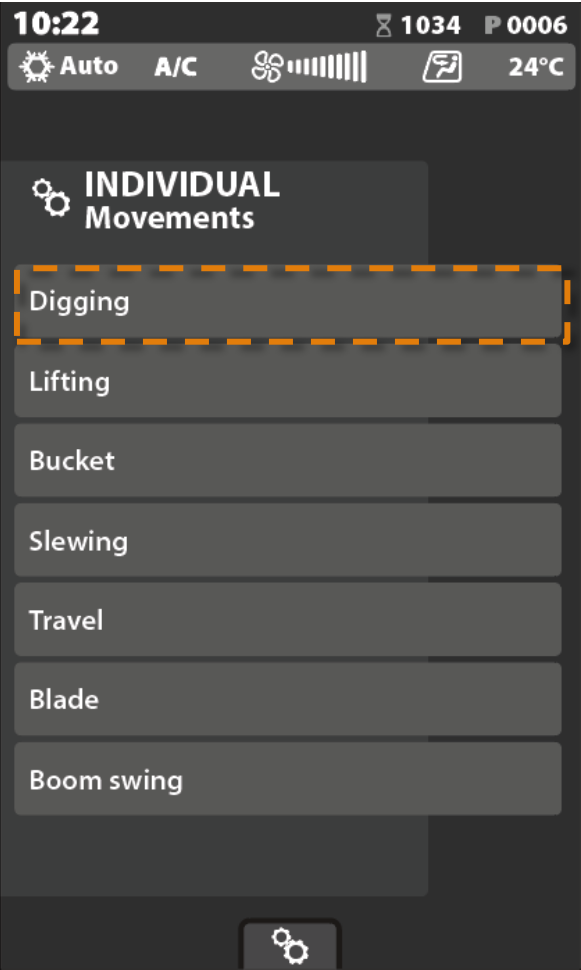


Select INDIVIDUAL in the submenu to change the movement speeds



In this menu item it is possible to regulate the speed in all directions, e.g. opening, closing of cylinders but also that of the drive

SPEED SETTINGS

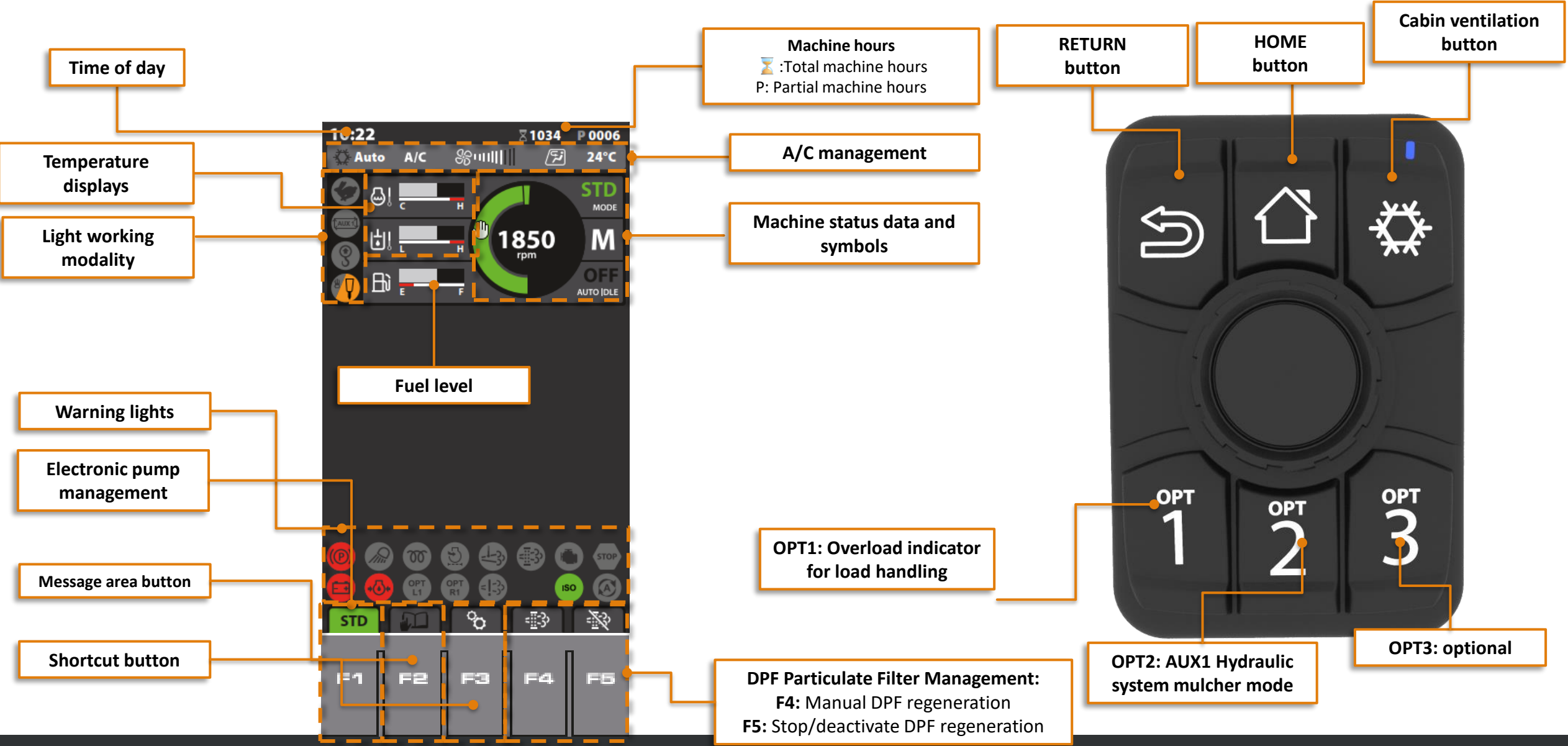


OPENING & CLOSING SPEED
Ability to change the speed of movement - opening and closing the dipper.

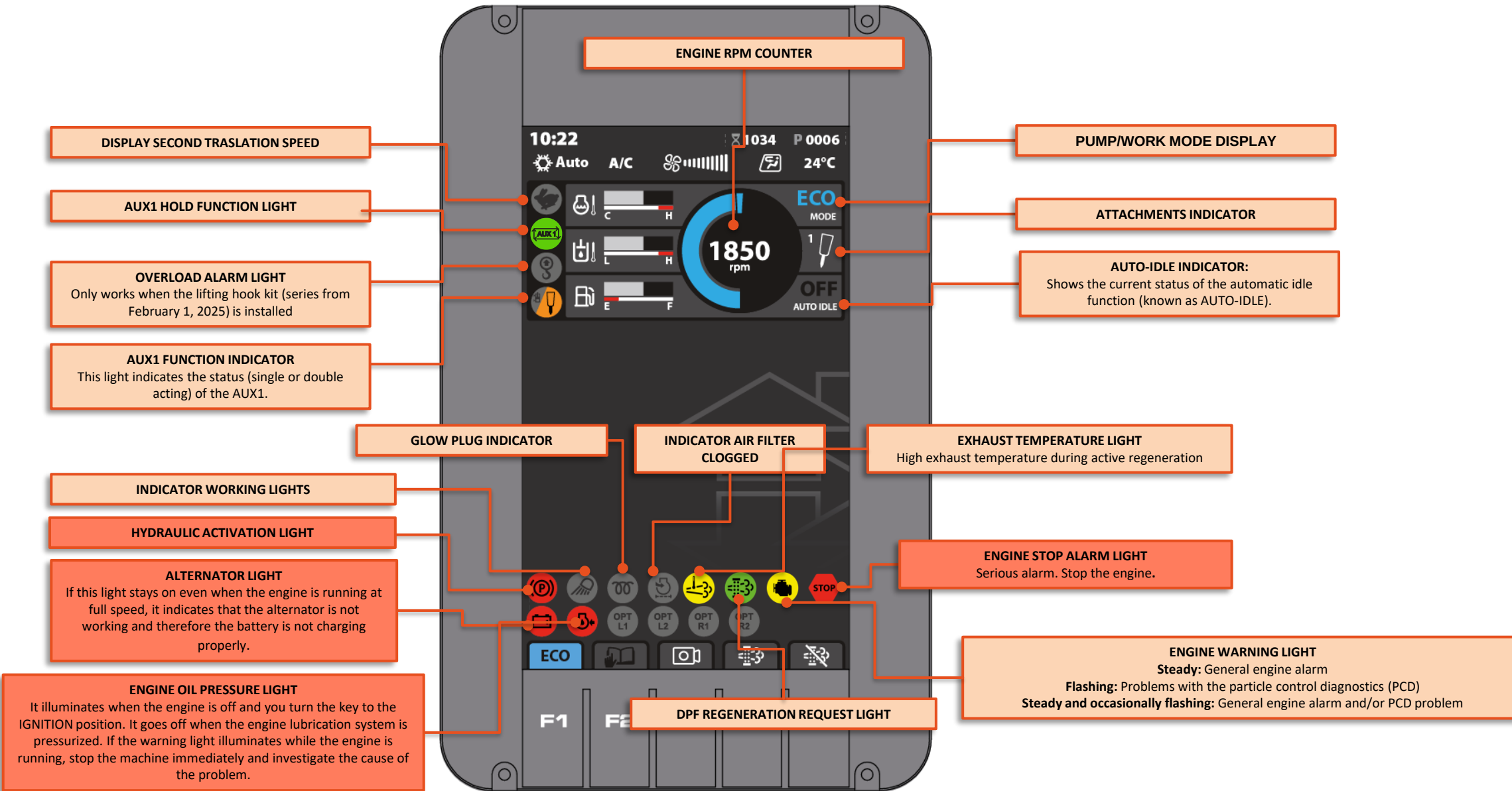
OPENING & CLOSING RAMP
Raising the curve increases the reactivity of the movement. The higher the value, the more reactive the movement.

OPENING & CLOSING SENSITIVITY
Change in motion sensitivity

DISPLAY AND CONTROL PANEL



DISPLAY – WARNING LIGHTS AND INDICATOR LIGHTS



DISPLAY – PUMP OPERATION MODES

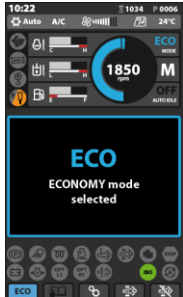
INDIVIDUAL: This mode allows setting the minimum or maximum values of each parameter related to the pump (enter and limit within the limits allowed by the system) and it is also possible to change the speed of the movements.



Electronic Pump Management
The hydraulic system pump is electronically controlled by the control unit, and the operator can choose from a range of available modes. Function F1 sets the pump operating mode. The selection is confirmed by a message appearing in the dedicated area of the display for a few seconds, and the light above the button illuminates.



ECONOMY: the engine has a fixed speed of 2000 rpm (minimum specific fuel consumption); the torque and the LS differential pressure of the pump are set to low values to ensure the performance of small, precise operations with extreme sensitivity of movements, thus saving fuel.



STANDARD: The machine speed is controlled by the throttle potentiometer. The pump torque and differential pressure LS are variable and depend on the set speed. Standard values are set to ensure adequate power and speed for normal use of the machine under normal operating conditions.



POWER: The machine speed is controlled by the throttle potentiometer. The pump torque and differential speed (LS) are variable and depend on the set speed. The maximum possible values are set to ensure maximum performance at the limit of the torque transmittable by the motor and the maximum speeds during movement execution.



DISPLAY – PUMP MANAGEMENT

Hammer hold function
This light indicates that the hammer is locked holding function



MULCHER HYDRAULICS (optional):
Automatic mode combined with the use of special devices, which ensures the simultaneous possibility of performing the various machine movements without overloading the engine. The MULCHER mode cannot be activated from the display (using the F1 key), but is activated automatically when the cutting head system is switched on using the OPT2 key on the right keyboard.



Electronic Pump Management
The hydraulic system pump is electronically controlled by the control unit, and the operator can choose from a range of available modes. Function F1 sets the pump operating mode. The selection is confirmed by a message appearing in the dedicated area of the display for a few seconds, and the light above the button illuminates.

Travel Mode
Travel mode can be activated via special menus and allows the operator to control the machine's travel movements using only the left joystick.



DISPLAY - MESSAGE AREA

Message Area

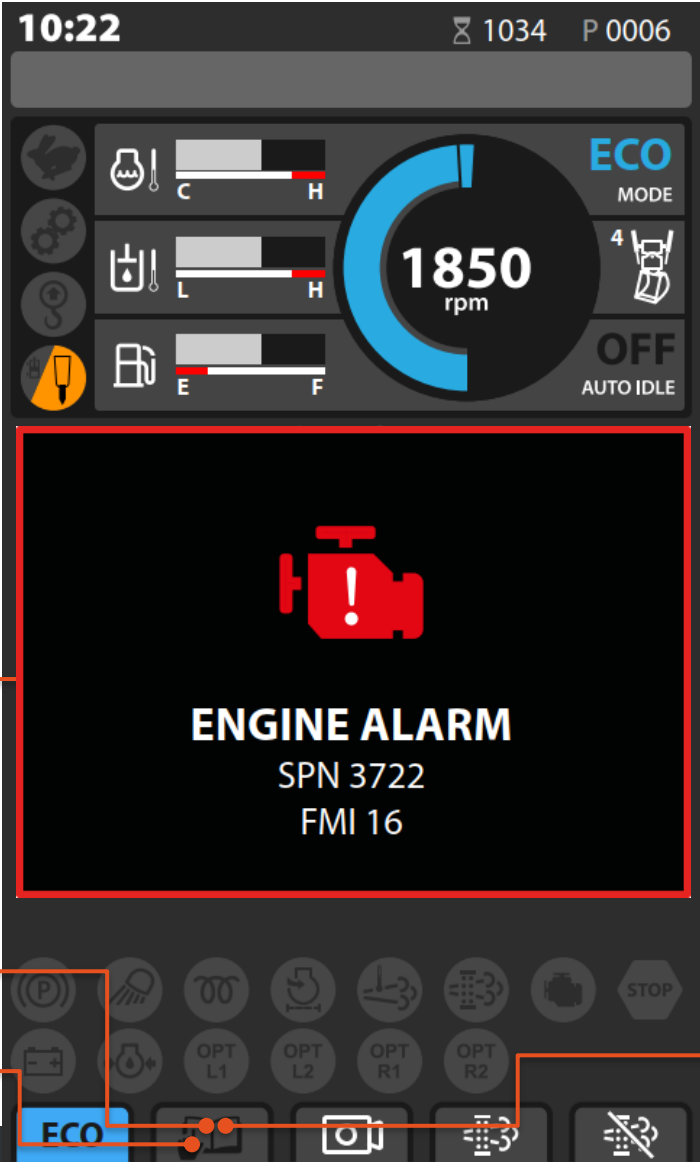
The center of the display contains a message area where the following can be displayed:

- Information on regular maintenance
- Machine operating parameters
- Warnings for machine alarms
- Warnings for engine alarms
- Information about operator settings
- Information about engine status
- Information about DPF (particulate filter) regeneration

When multiple screens are displayed simultaneously, the current window is indicated with a flashing outline; the operator can scroll through the different screens by turning the scroll wheel on the right console.

The icon above the F2 key indicates the number of existing messages. If there is no message, the icon remains gray.

If there are new messages, the icon changes.

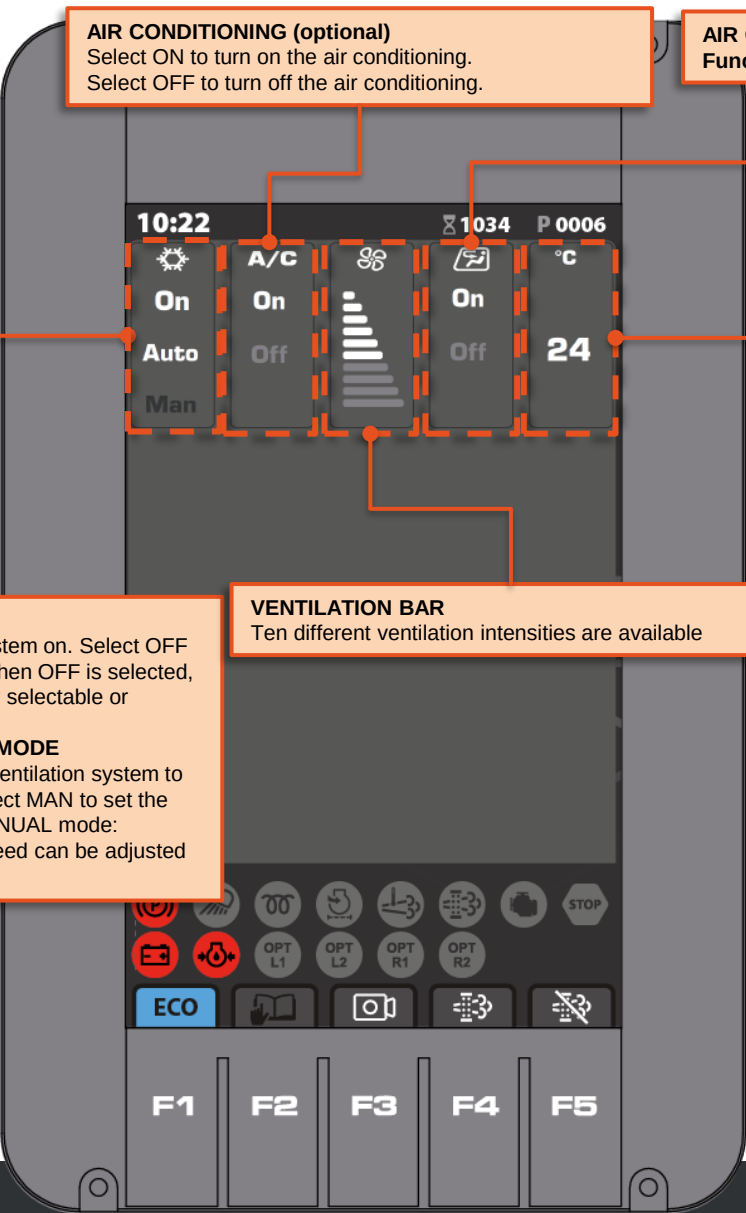


Use the F2 button to hide or show messages

DISPLAY – AIR CONDITIONING SETTINGS



Press the displayed button to access the cabin A/C climate settings. Turn the scroll mouse to select the desired option and press it to confirm the selection.



AIR CONDITIONING (optional)
Select ON to turn on the air conditioning.
Select OFF to turn off the air conditioning.

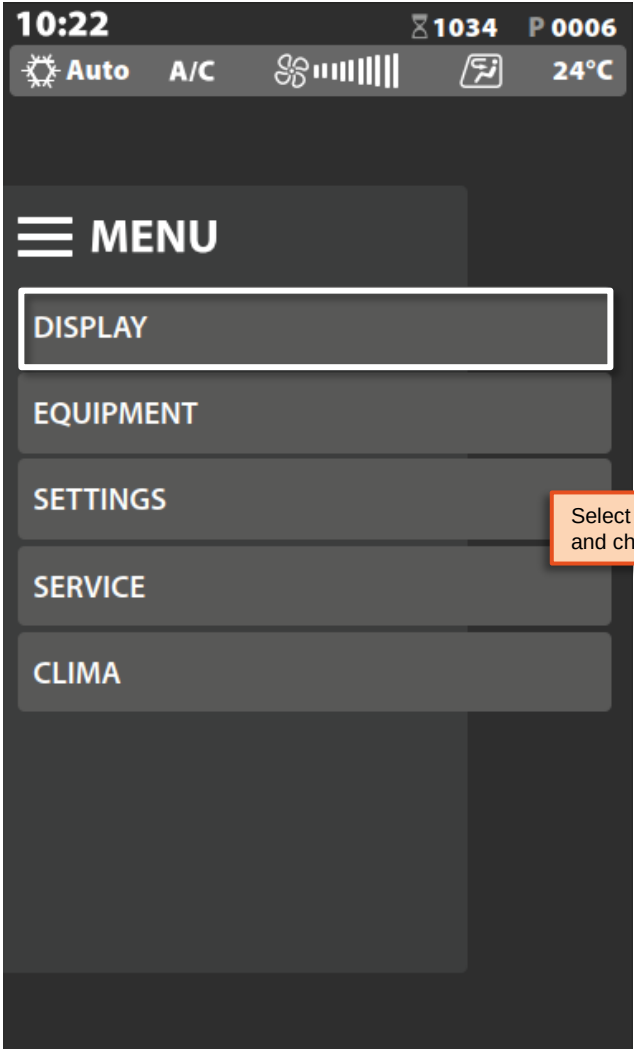
AIR CIRCULATION
Function NOT available

AIR TEMPERATURE BAR
Turn the navigation dial to change the temperature: clockwise increases the value, counterclockwise decreases it.

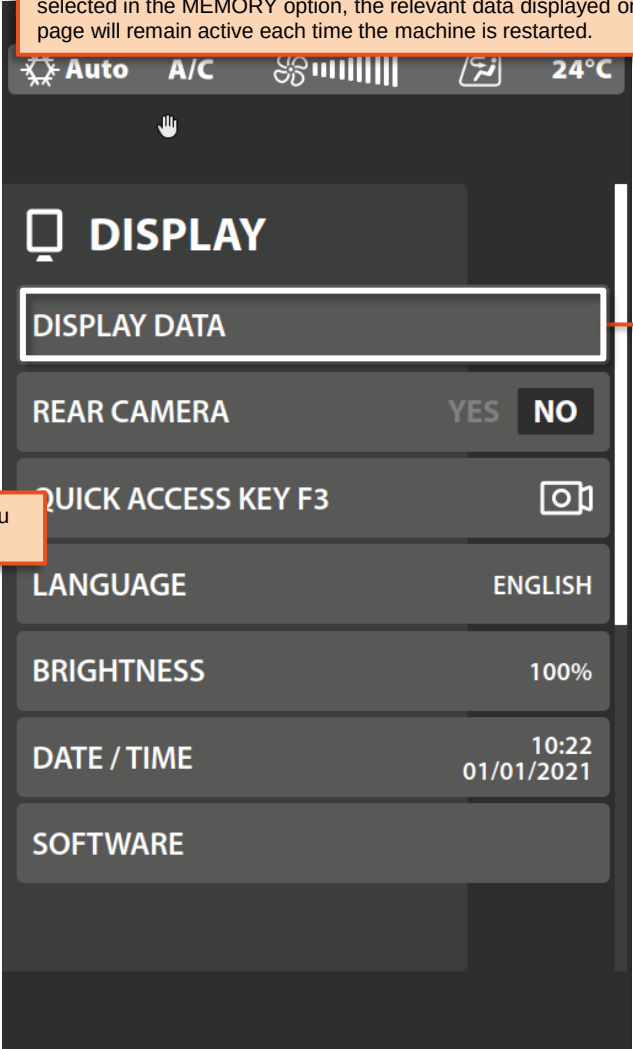
VENTILATION BAR
Select ON to turn the system on. Select OFF to turn the system off. When OFF is selected, other fields are no longer selectable or editable.
AUTOMATIC/MANUAL MODE
Select AUTO to set the ventilation system to AUTOMATIC mode. Select MAN to set the ventilation system to MANUAL mode: Temperature and fan speed can be adjusted manually.

VENTILATION BAR
Ten different ventilation intensities are available

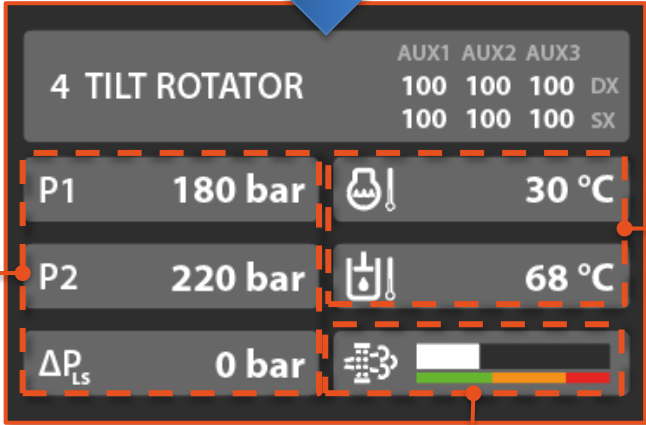
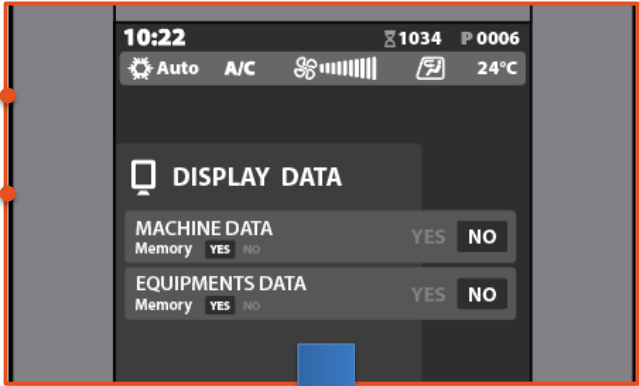
DISPLAY – MENU SCREEN



Select DISPLAY to access a submenu and change the display settings



By selecting the DISPLAY DATA submenu, you can enable the display of some of the machine's operating parameters on the HOME page. Enabling MACHINE DATA allows you to view machine data (pressures, temperatures, DPF status, etc.), while DEVICE DATA allows you to view the data of the active equipment. After selecting YES, the MEMORY option appears. If YES is selected in the MEMORY option, the relevant data displayed on the HOME page will remain active each time the machine is restarted.

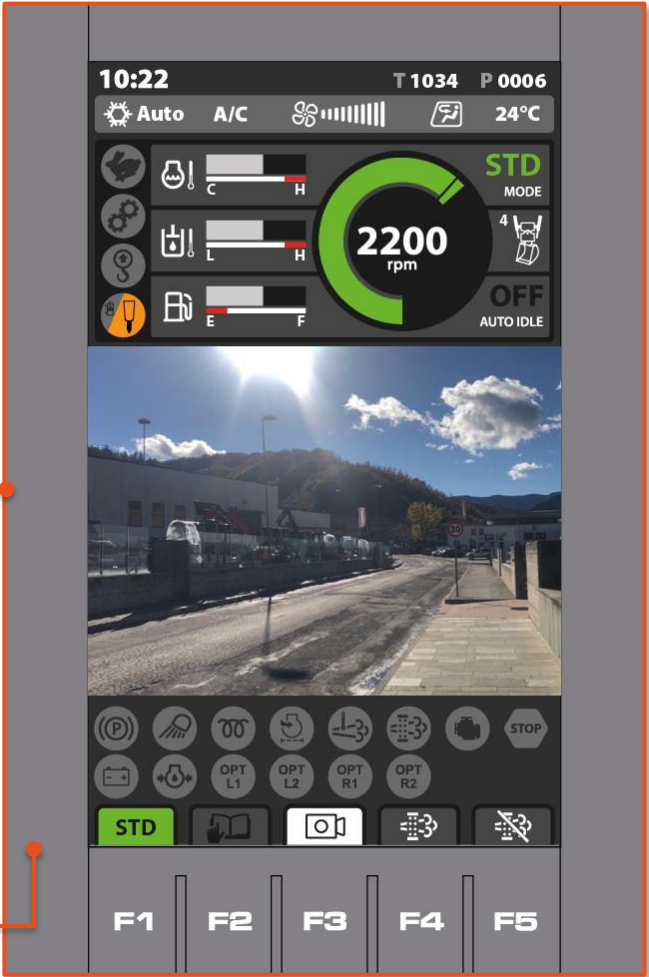
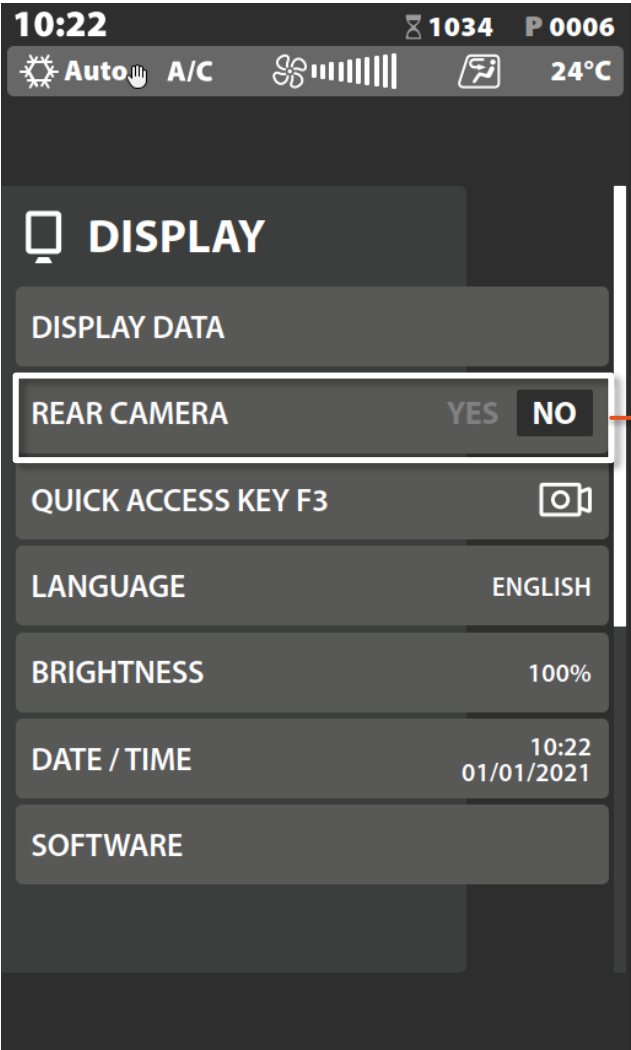
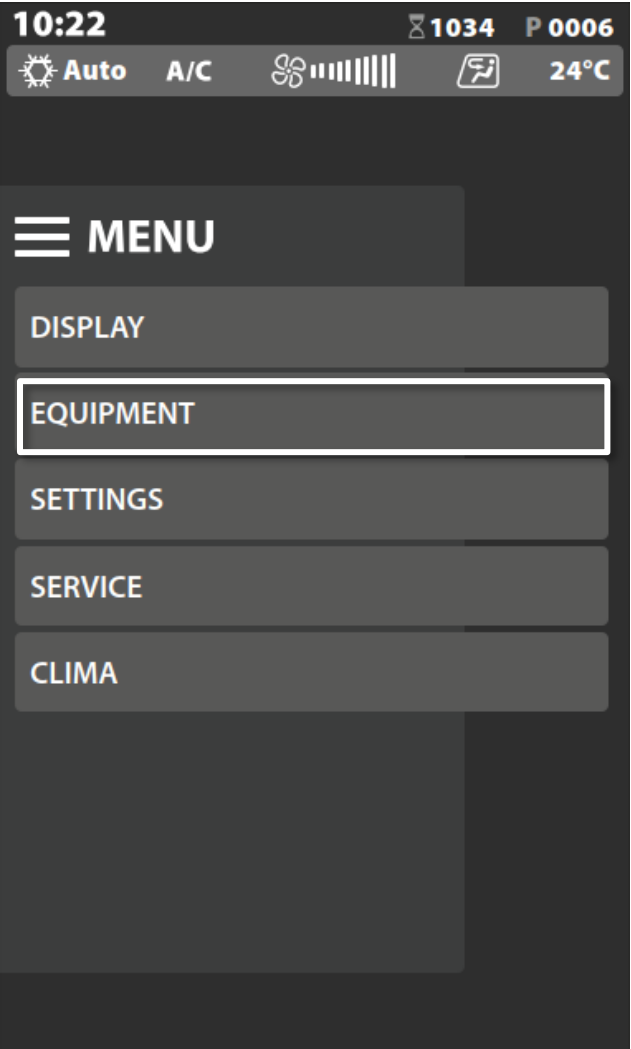


P1: Main pressure
P2: Servo control pressure
ΔPLS: Load sensing pressure

DPF clogging level

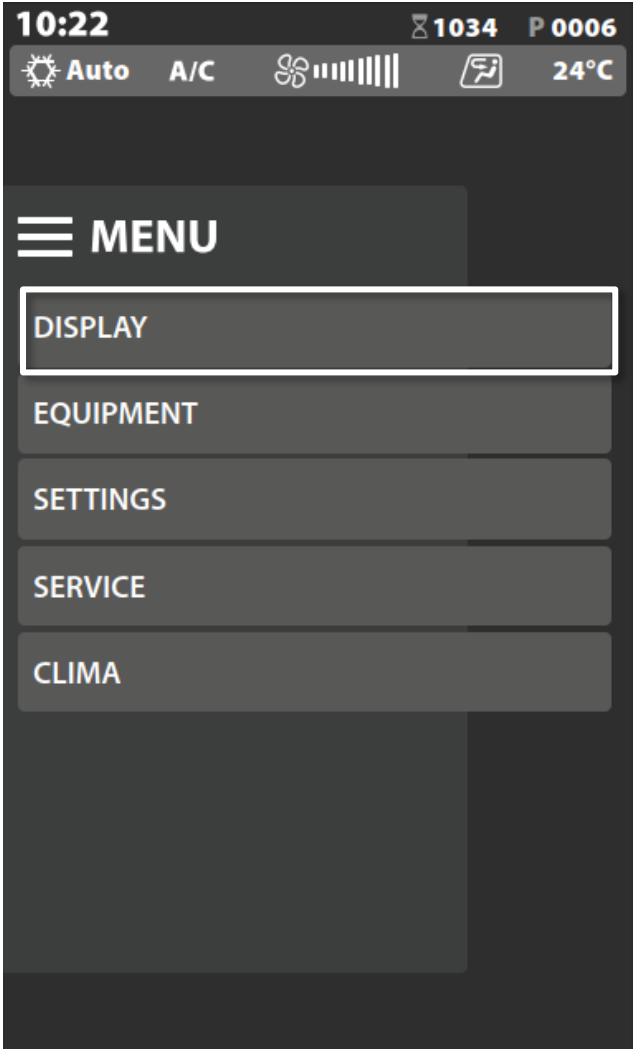
- Engine oil temperature
- Coolant temperature

DISPLAY – MENU SCREEN



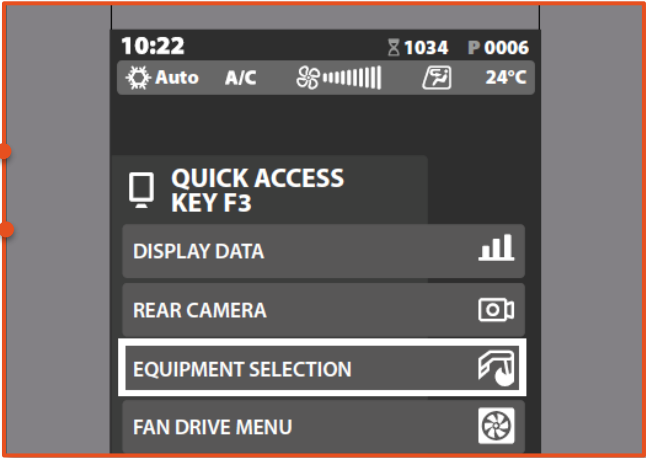
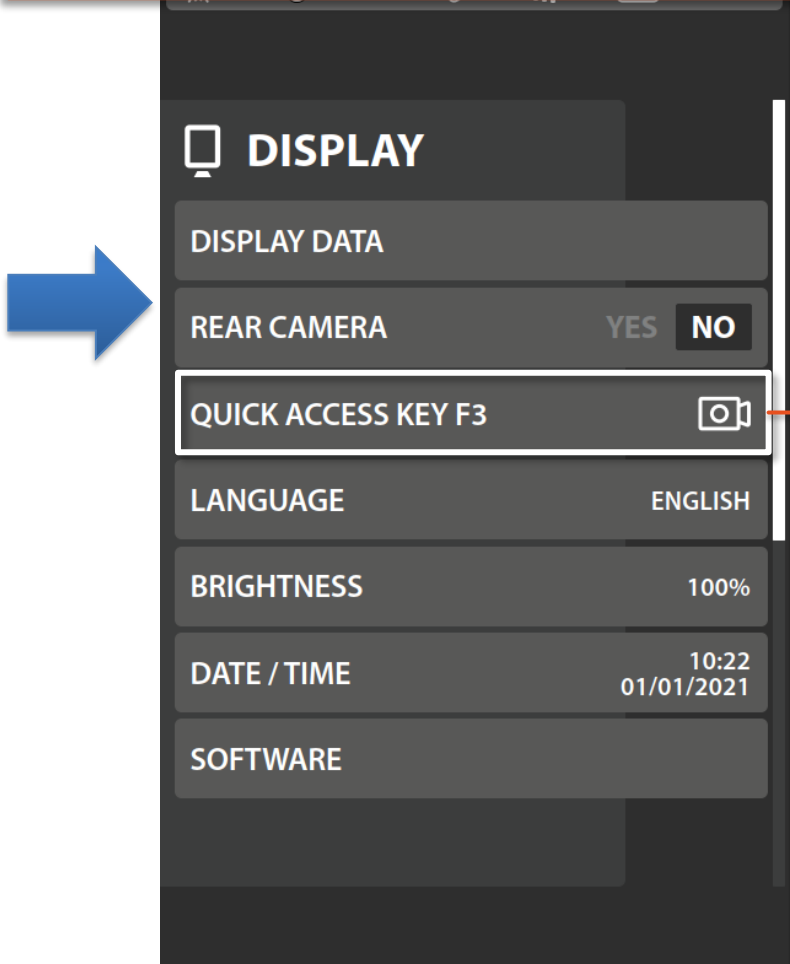
If available, the rear view camera can be selected in the display submenu. Changing the default value from NO to YES activates the rear view camera, and images of the area behind the vehicle are displayed on the HOME page. Use the F3 key to put the rear view camera into standby mode. Press the F3 key again to activate it. The F3 key is combined with the rear view camera function by default (if available). **According to the new EN 474, this function cannot be disabled from February 1, 2025!**

DISPLAY – MENU SCREEN

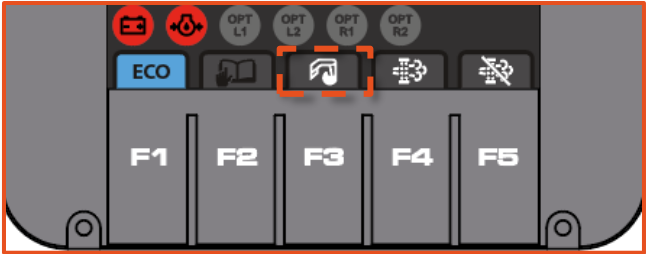


On the DISPLAY page, select the F3 QUICK ACCESS button. This allows you to quickly access a submenu. You can select one of the following functions in combination with the F3 button:

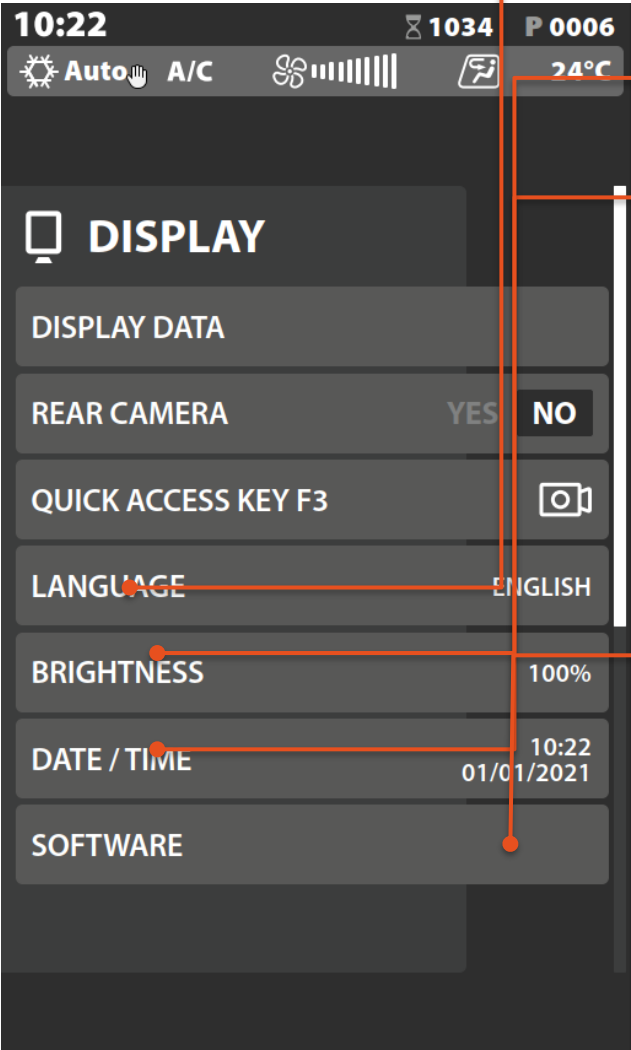
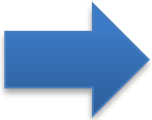
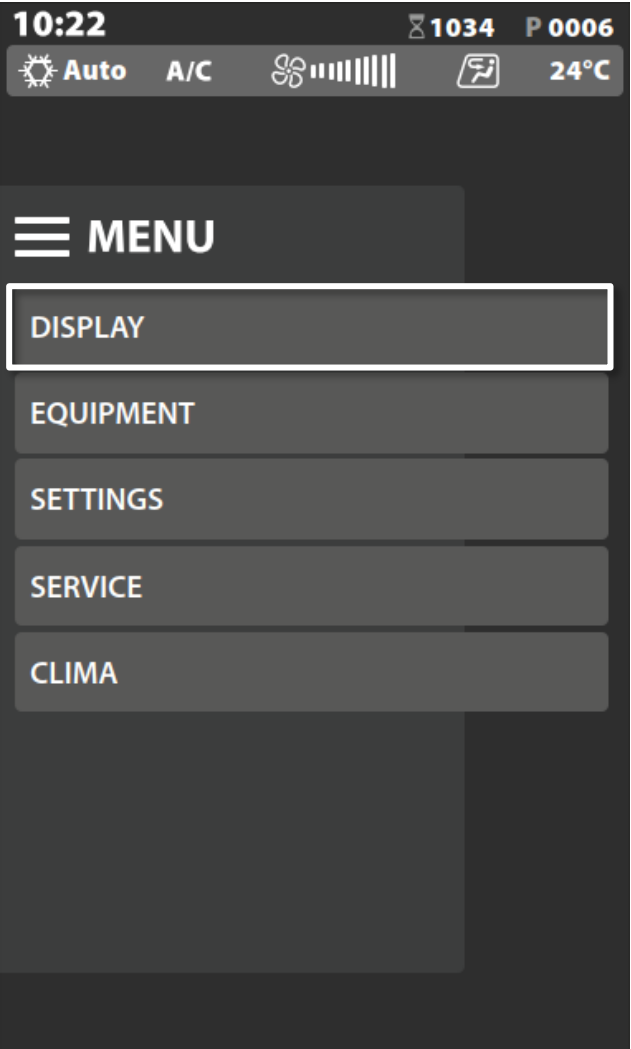
- **DISPLAY DATA:** To hide or display data on the HOME page.
- **REAR CAMERA** (no longer easily switchable from February 1, 2025 and EN 474): To put the rear camera into standby mode or display rear camera images on the HOME page.
- **GEAR SELECTION:** To access the gear selection page.
- **FAN DRIVE MENU:** To access the Fan Drive page.



Once you confirm your selection, the icon above the F3 key on the HOME page will automatically update. The selected function will remain saved until the operator changes it again.



DISPLAY – MENU SCREEN



LANGUAGE
Submenu for setting your preferred language

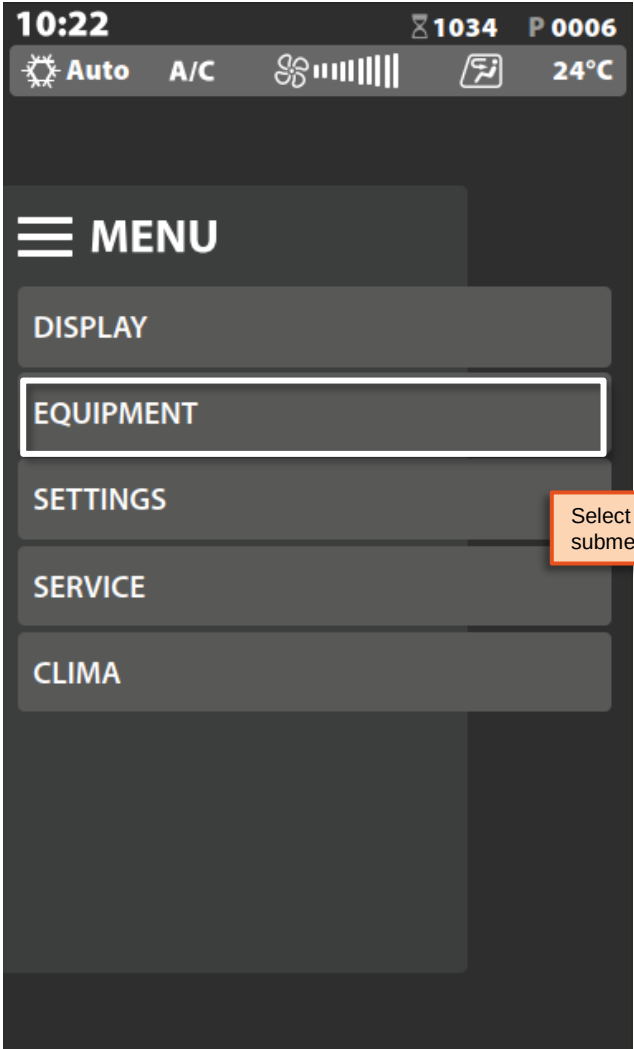
BRIGHTNESS
Submenu for setting your preferred brightness

DATE AND TIME
Submenu for setting the preferred date format.



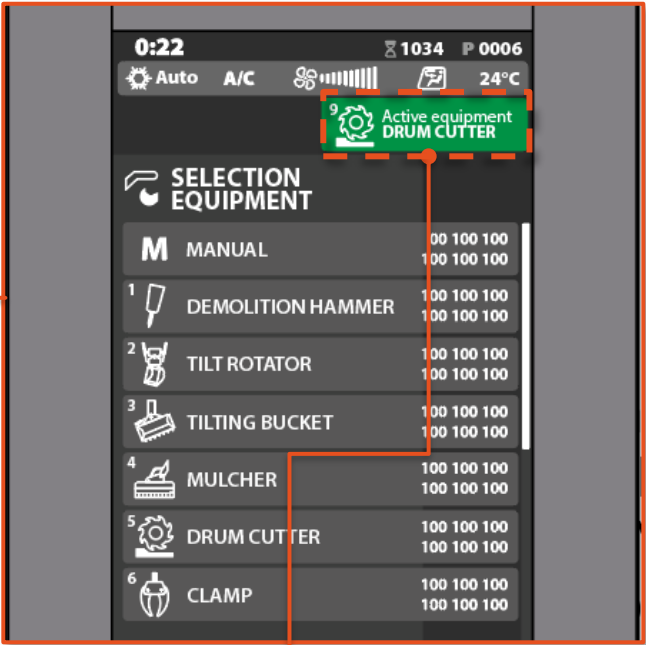
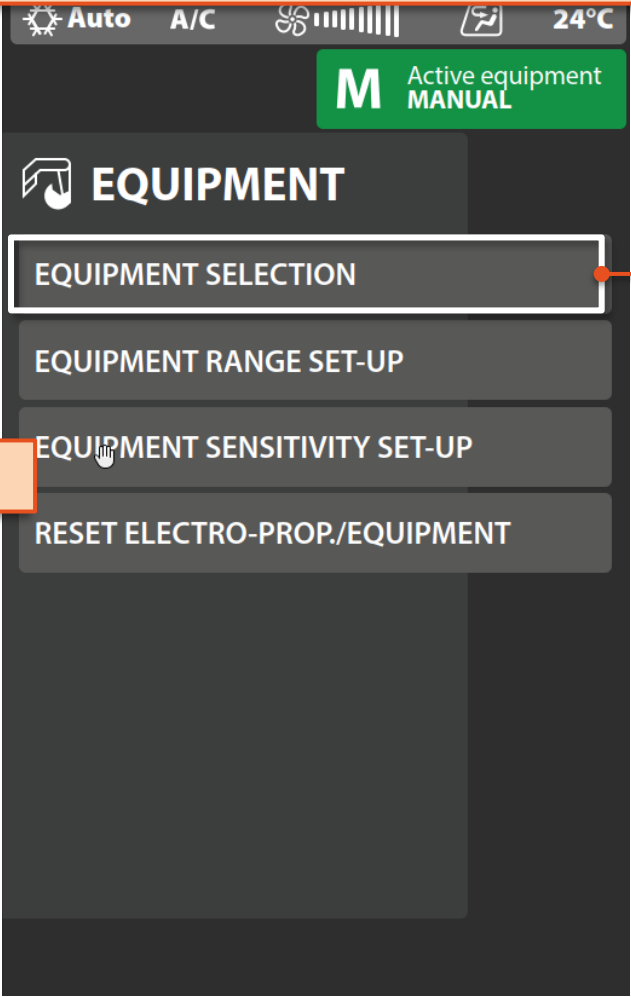
On the **DISPLAY** page, by accessing the **SOFTWARE** submenu, you can view the versions of the software installed in the various electronic components of the machine.

DISPLAY – MENU/EQUIPMENT



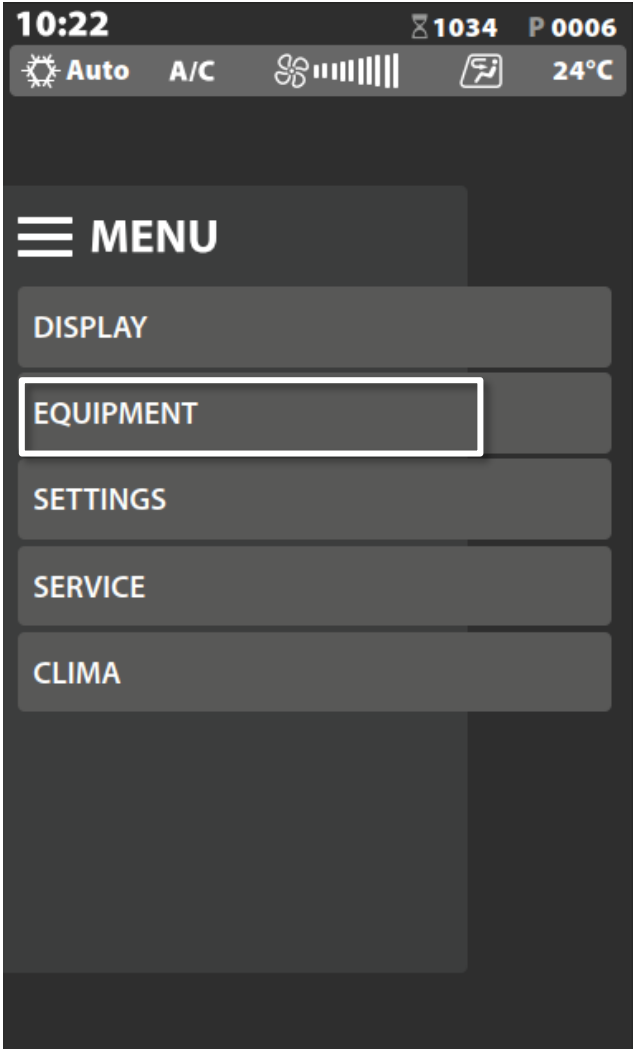
Select EQUIPMENT to access a submenu for device settings.

Selecting the **EQUIPMENT SELECTION** submenu takes you to a page with a list of custom equipment, displayed on two consecutive pages. There are nine devices available, plus the **M** (manual) setting. The device name is automatically associated with an icon.

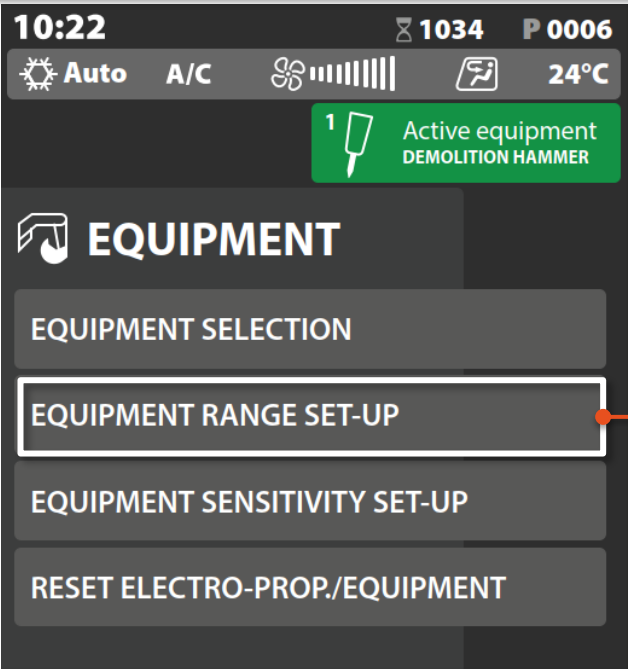


The **ACTIVE EQUIPMENT** icon appears on the **EQUIPMENT** page and on the Home page. The icon consists of two parts: a unique reference number (which refers to the order in which the equipment was saved in the **EQUIPMENT SELECTION** submenu list) and a repeatable icon when multiple similar pieces of equipment are available.

DISPLAY – MENU/EQUIPMENT



Selecting the **EQUIPMENT SETTINGS** submenu takes you to a page with a list of customized devices. Select the desired Equipment to change the corresponding settings.

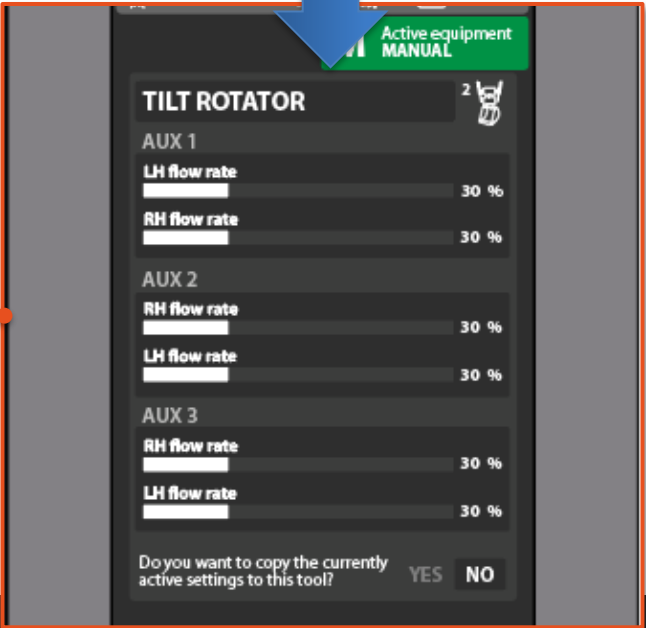


You can change:

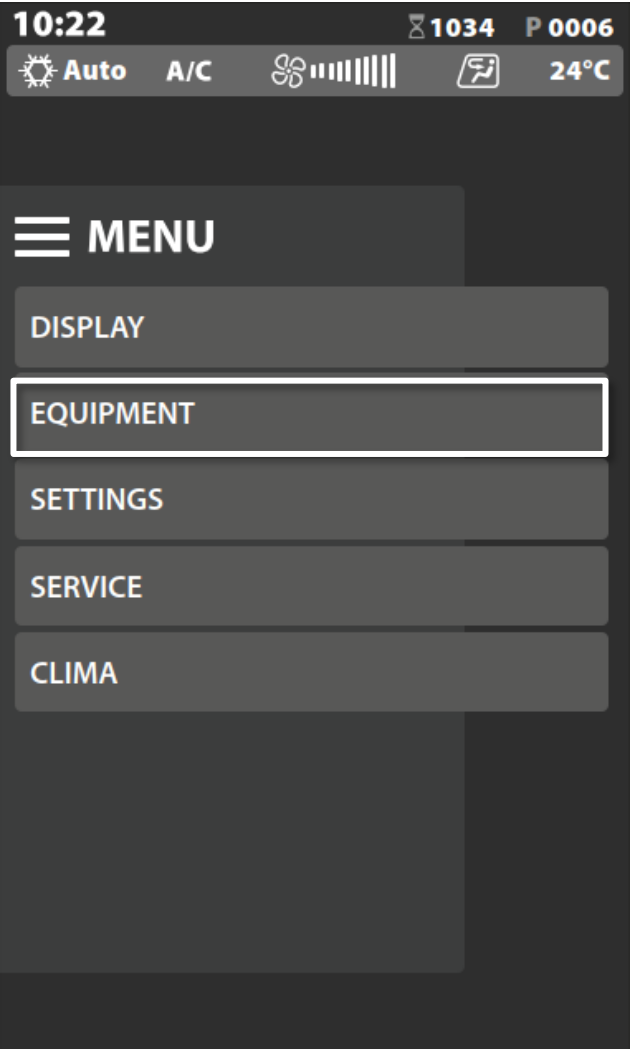
- the Equipment name from the available names and generic letters;
- the AUX1 flow rate for each hydraulic flow line to the right and left of the boom;
- the AUX2 flow rate for each hydraulic flow line to the right and left of the boom;
- the AUX3 flow rate for each hydraulic flow line to the right and left of the boom.

It is recommended to only customize the functions actually used by the Equipment. To speed up the activation of customizations for a new Equipment, it is possible to copy the previously configured values to another:

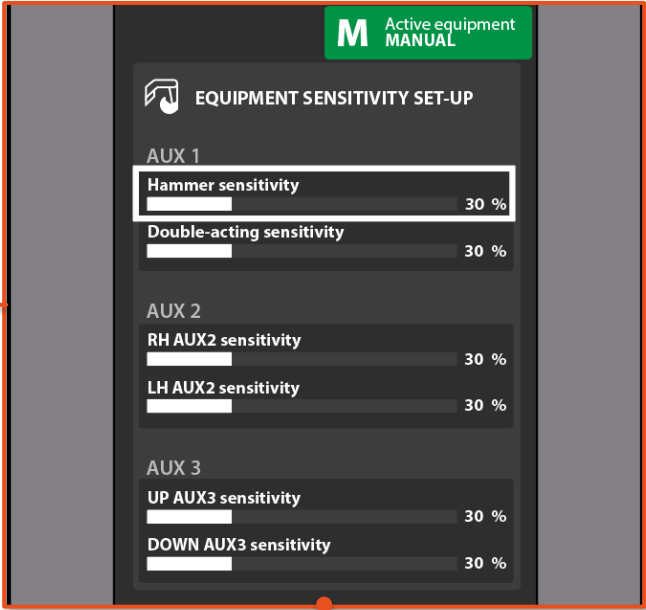
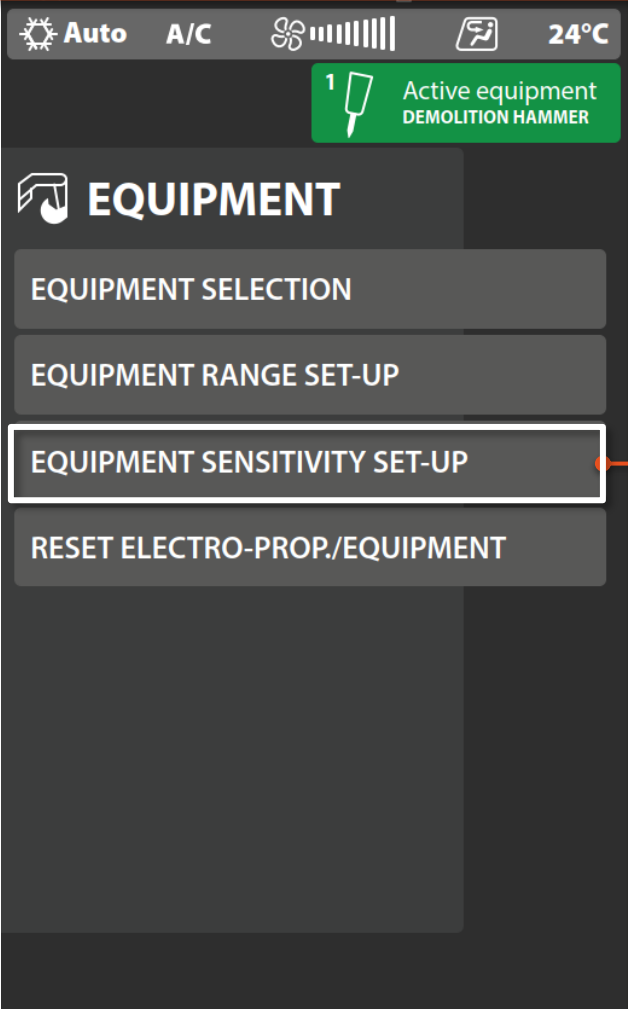
- Activate the Equipment from which you want to copy;
- Enter the SET-UP of the position (from 1 to 9) where you want to copy;
- At the bottom of the page, change the value NO to YES and wait for the countdown to end.



DISPLAY – MENU/EQUIPMENT

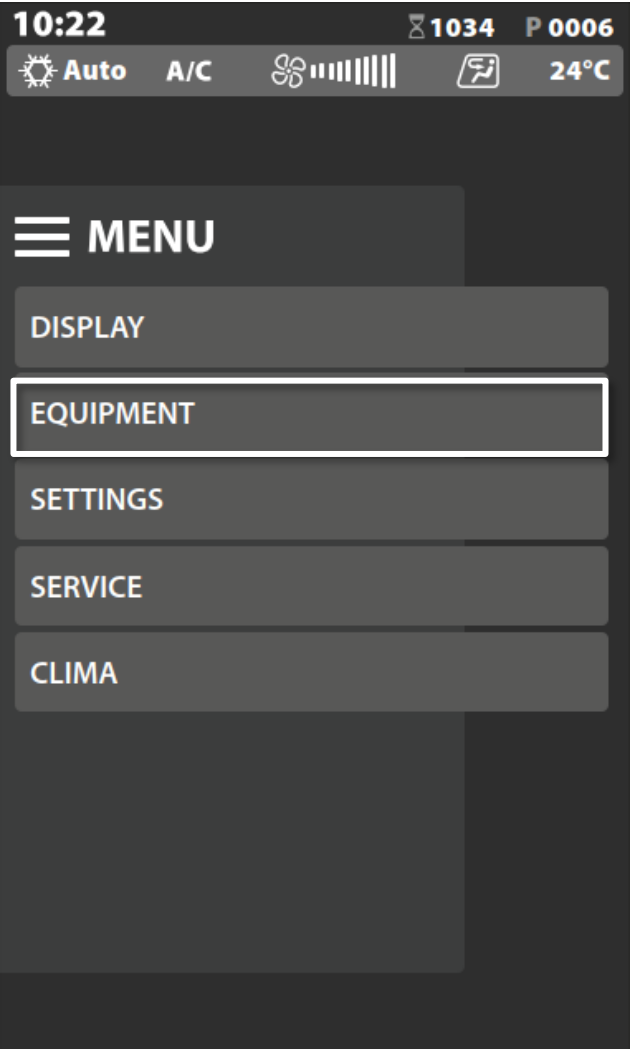


Selecting EQUIPMENT SENSITIVITY ADJUSTMENT takes you to a submenu where you can adjust the sensitivity of the electroproportional movements in relation to the Equipment.

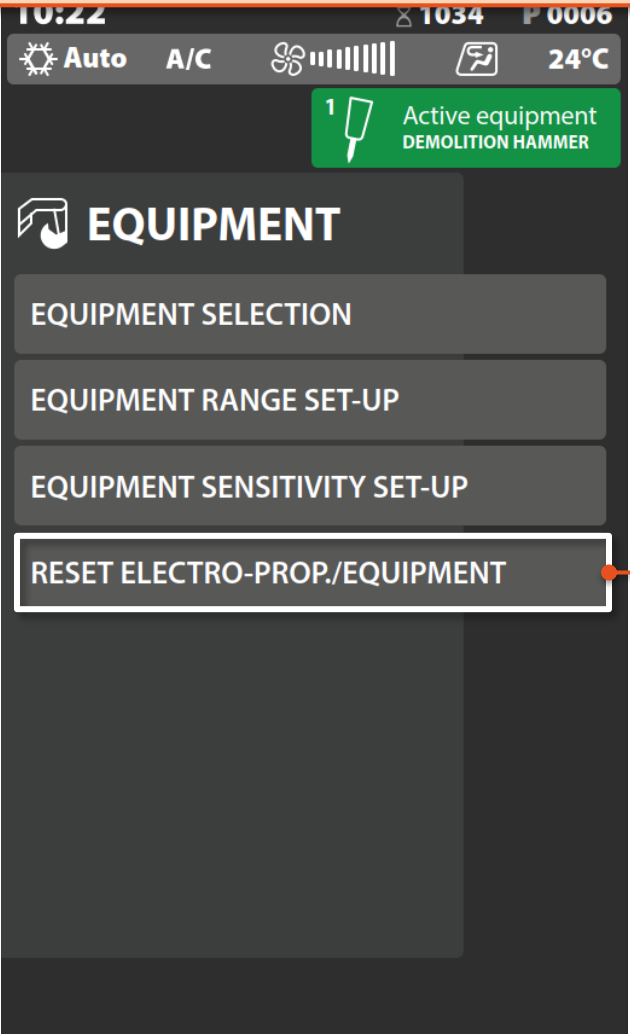


For each application, the sensitivity value can be adjusted from a minimum of 0 (on/off effect control) to a maximum of 4 (very sensitive control). The sensitivity values set in this submenu apply to all enabled devices. **It is not possible to set different sensitivity values for different devices.**

DISPLAY – MENU/EQUIPMENT

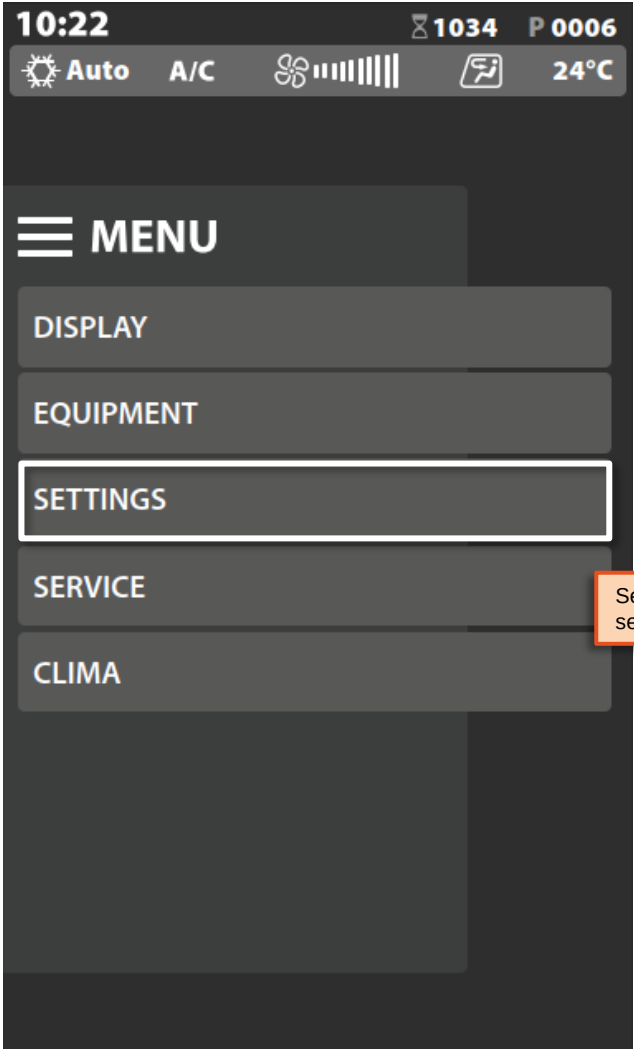


Selecting RESET ELECTRO-PROPORTIONAL CONTROL/EQUIPMENT accesses a screen that displays all custom settings related to the electro-proportional movements to be reset (this affects both equipment and other uses, such as arm swings, triple swings, etc.).

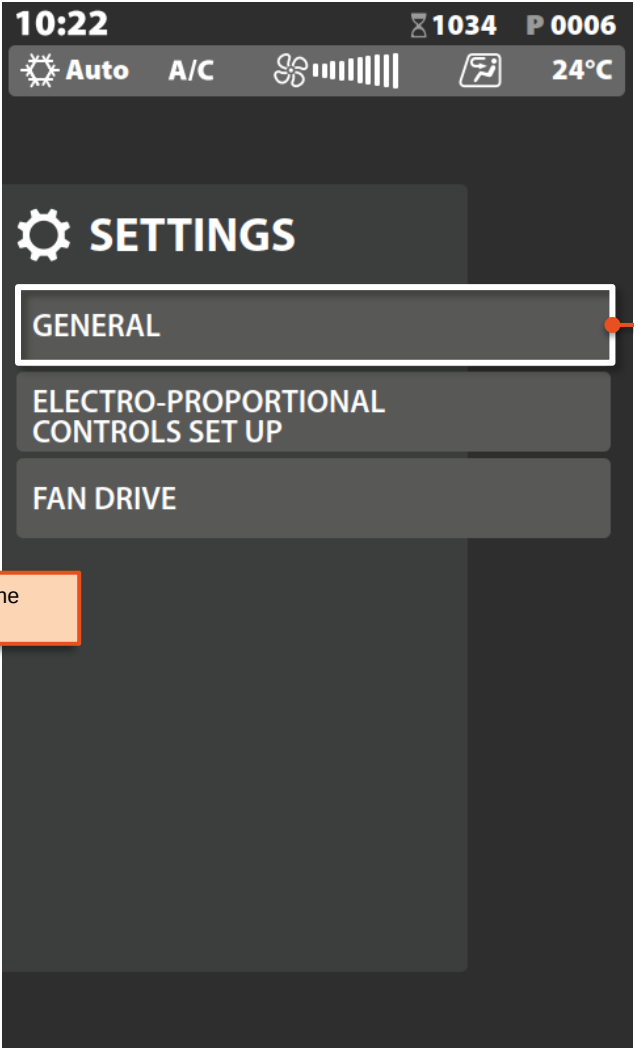


When the page appears, you'll be explicitly asked to restore the original factory settings and confirm your choice. Turn the navigation wheel until you reach YES, then press the wheel to confirm your selection.

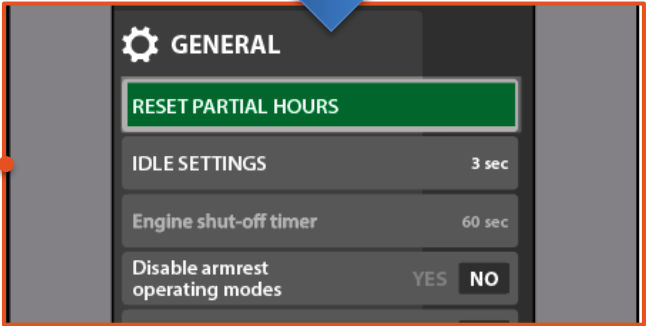
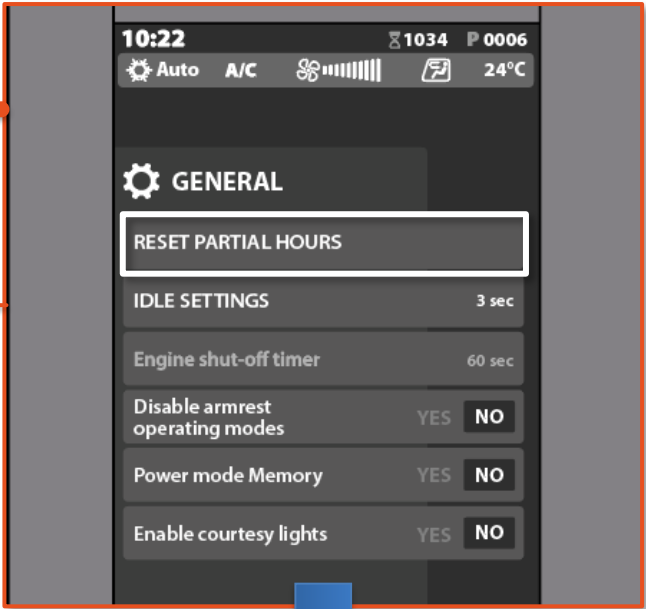
DISPLAY – MENU/SETTINGS



Select SETTINGS to access the settings submenu next to it

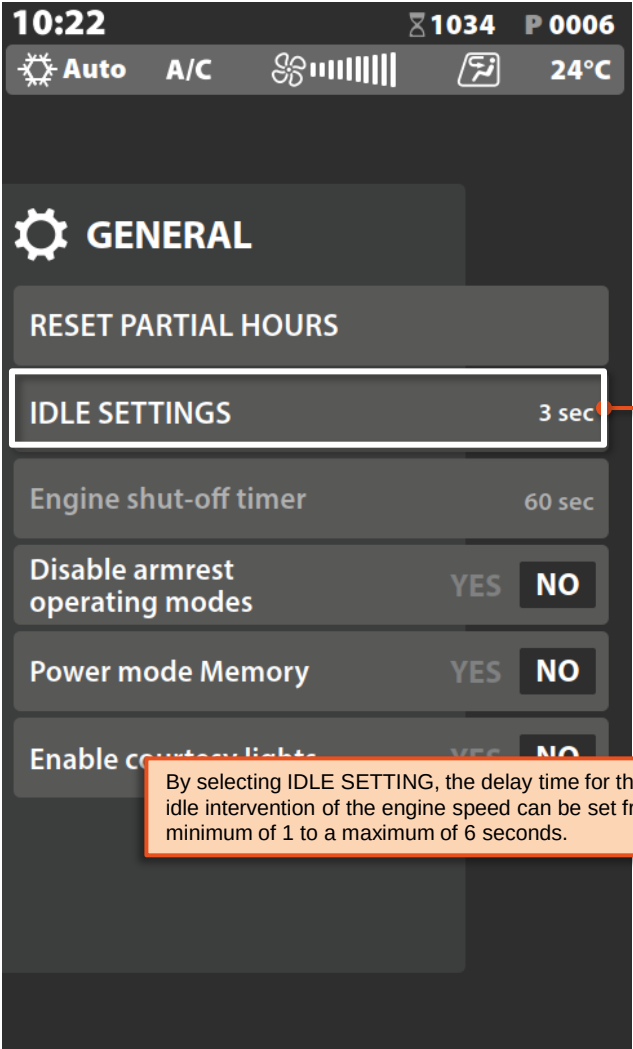
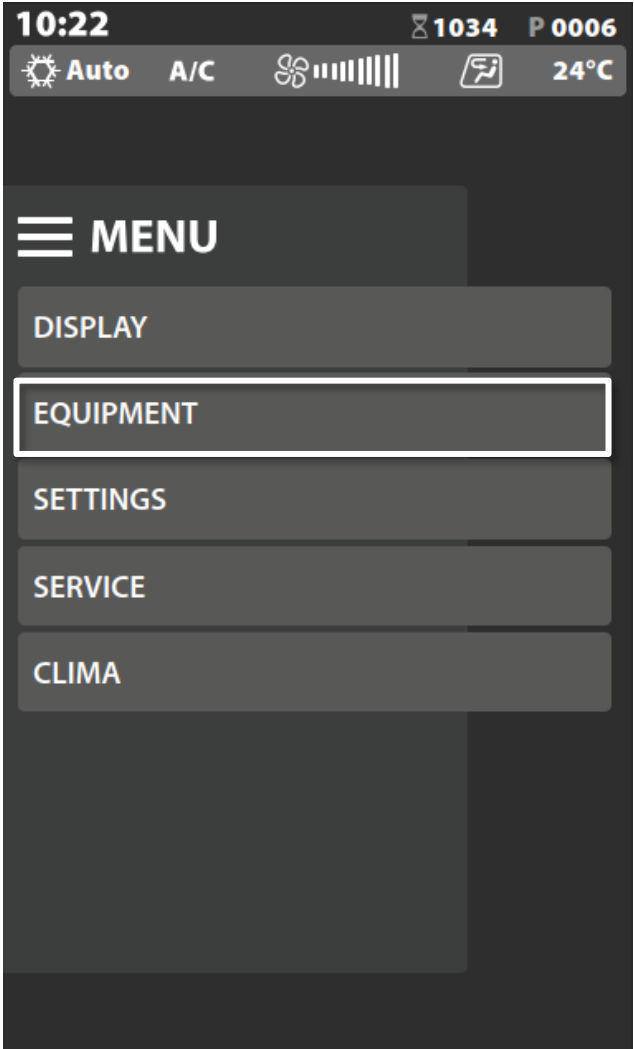


Selecting **GENERAL** allows you to access a page with the general functions of the machine.

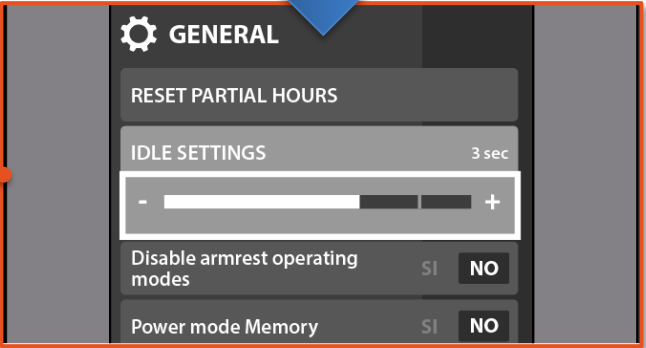
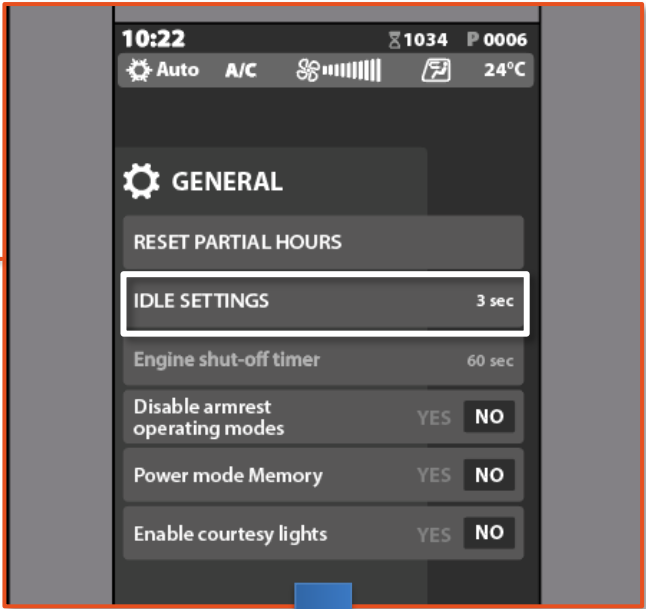


Selecting RESET PARTIAL HOURS TO ZERO turns the box green; confirming the command resets the partial hour counter value to zero (this is displayed on the HOME page, with the partial hour value reset to zero).

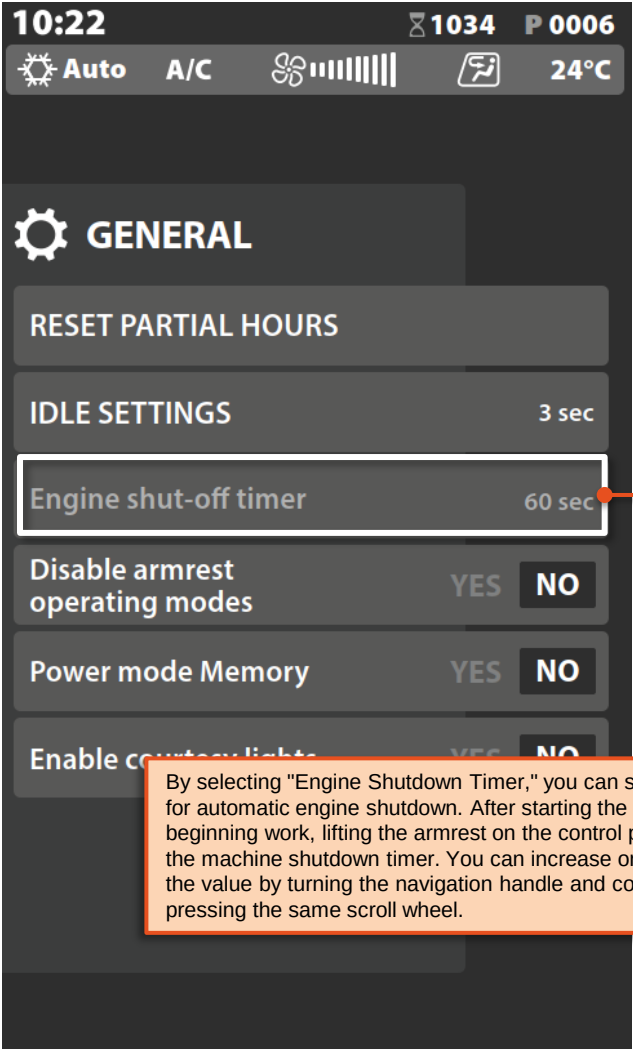
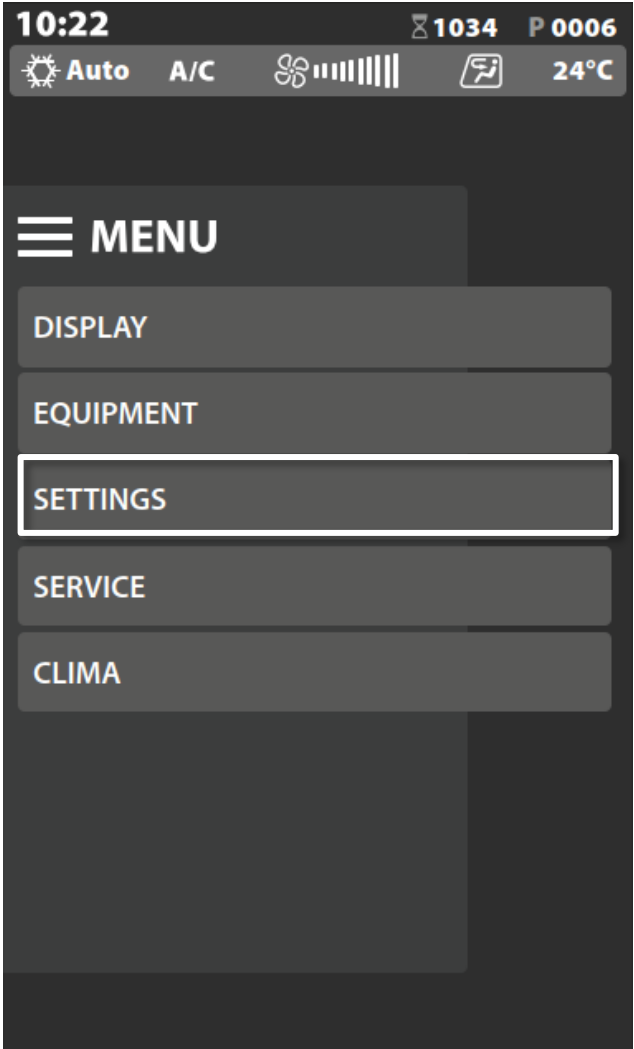
DISPLAY – MENU/SETTINGS



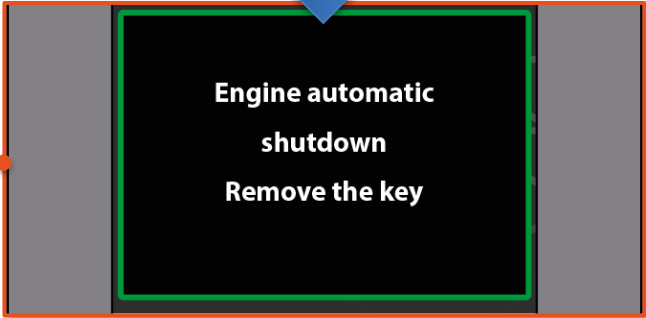
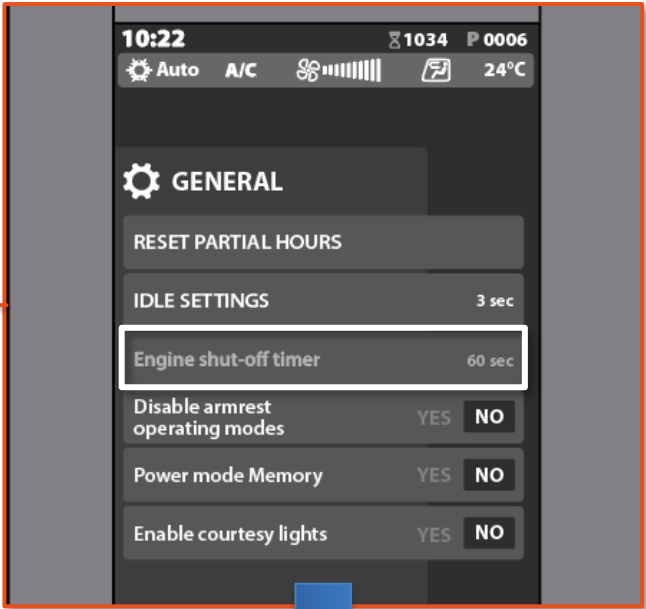
By selecting IDLE SETTING, the delay time for the automatic idle intervention of the engine speed can be set from a minimum of 1 to a maximum of 6 seconds.



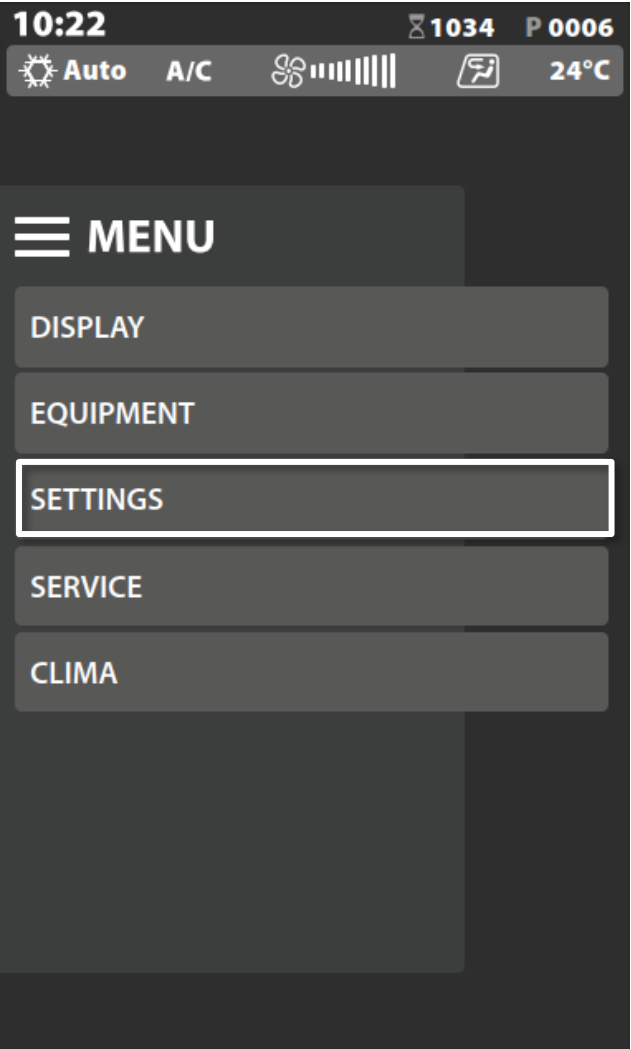
DISPLAY – MENU/SETTINGS



By selecting "Engine Shutdown Timer," you can set the timer for automatic engine shutdown. After starting the machine and beginning work, lifting the armrest on the control panel starts the machine shutdown timer. You can increase or decrease the value by turning the navigation handle and confirm by pressing the same scroll wheel.

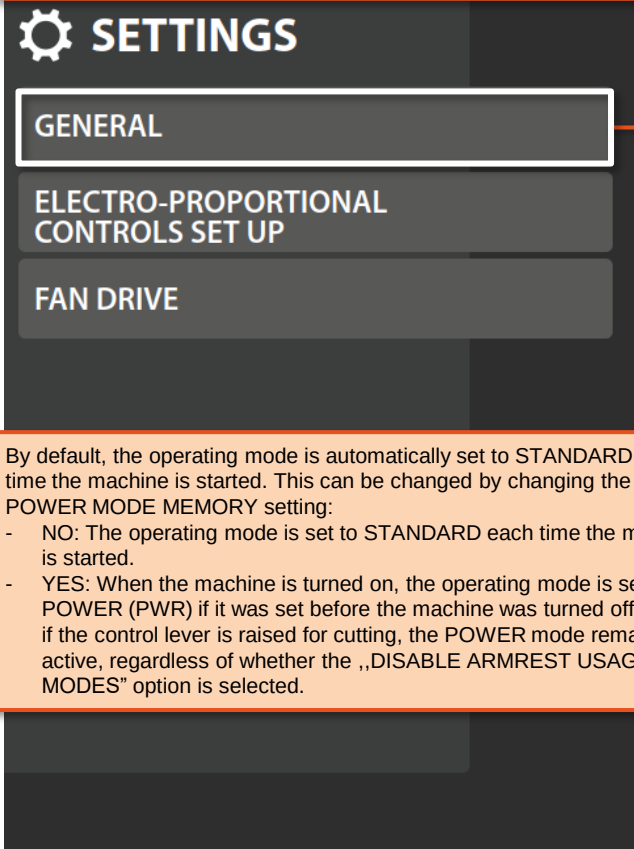


DISPLAY – MENU/SETTINGS



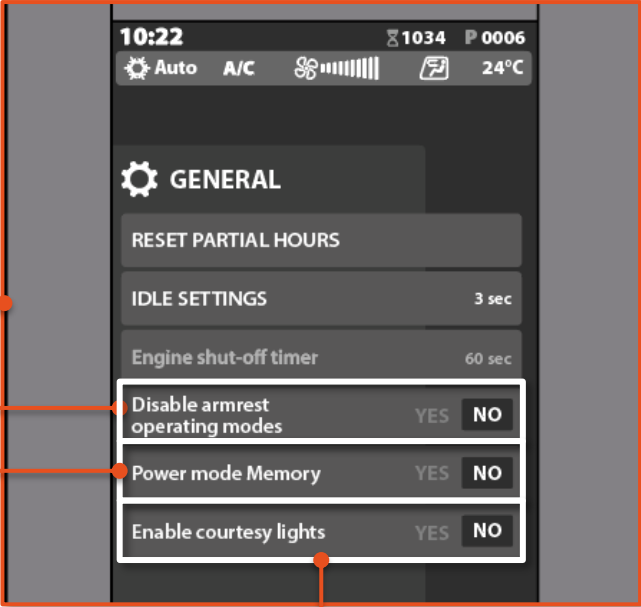
By default, raising the control armrest automatically resets the operating mode to STANDARD. This can be changed by changing the "DISABLE ARMREST USE MODE" setting:

- NO: Each time the control armrest is raised, the operating mode is set to STANDARD, and changing the operating mode is not possible. This setting does NOT work if the POWER MODE MEMORY selection is set to YES and the operator has selected POWER mode.
- YES: The operating mode does not change when the control armrest is raised, and it is always possible to change the operating mode using the corresponding button, regardless of the position of the control armrest.



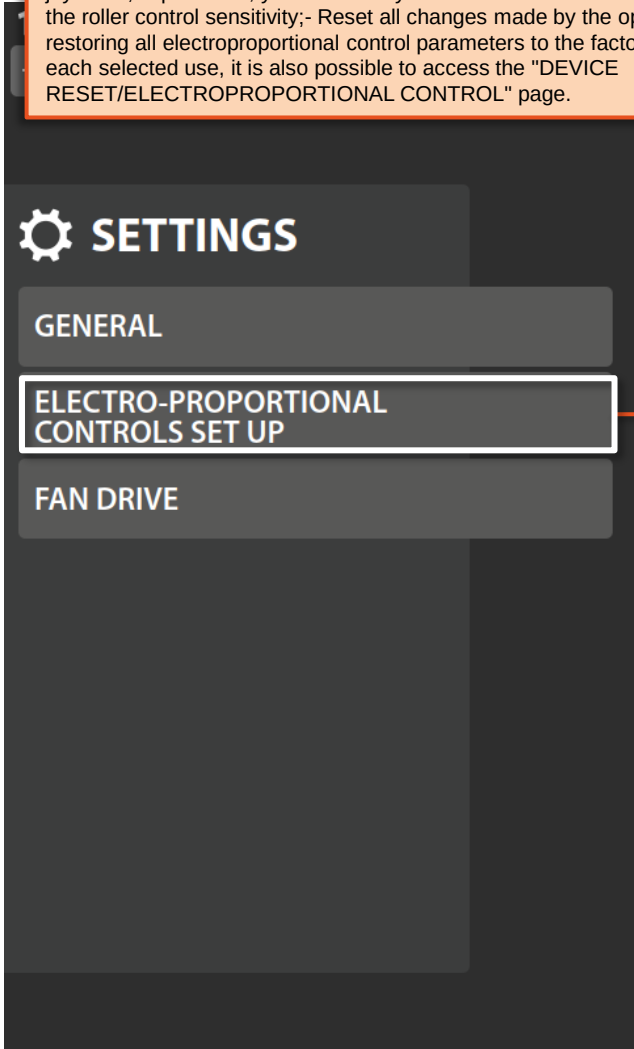
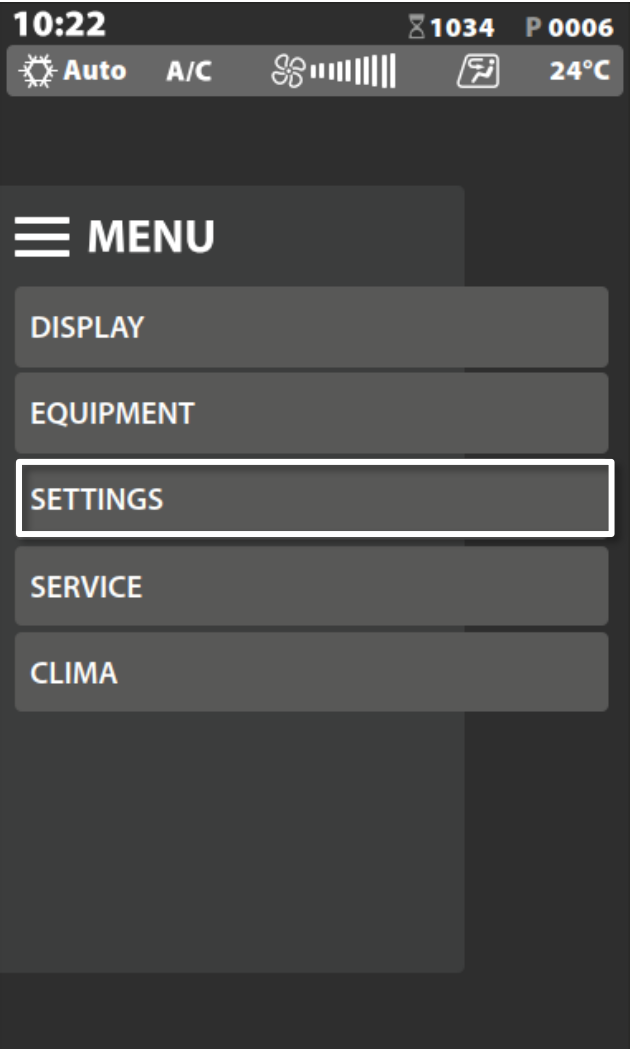
By default, the operating mode is automatically set to STANDARD each time the machine is started. This can be changed by changing the POWER MODE MEMORY setting:

- NO: The operating mode is set to STANDARD each time the machine is started.
- YES: When the machine is turned on, the operating mode is set to POWER (PWR) if it was set before the machine was turned off. Even if the control lever is raised for cutting, the POWER mode remains active, regardless of whether the „DISABLE ARMREST USAGE MODES" option is selected.

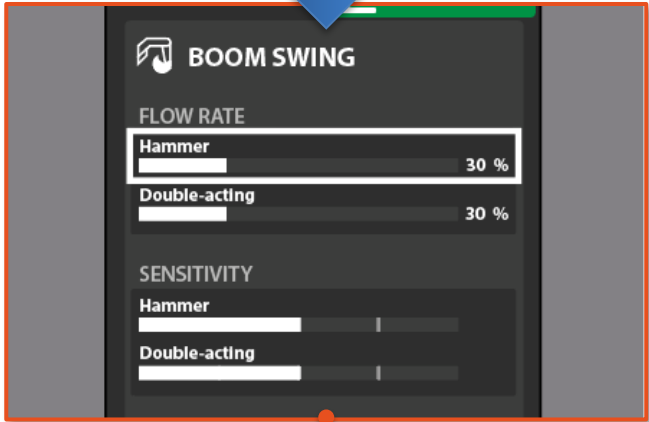
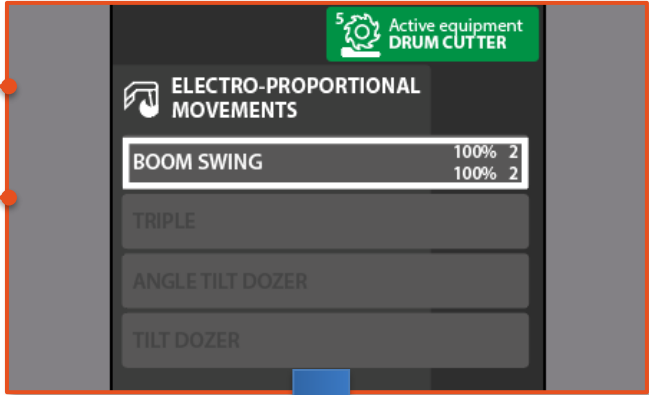


The courtesy lighting function activates the standard work lights (front) when the machine is stationary. The lights remain on for 30 seconds.

DISPLAY – MENU/SETTINGS

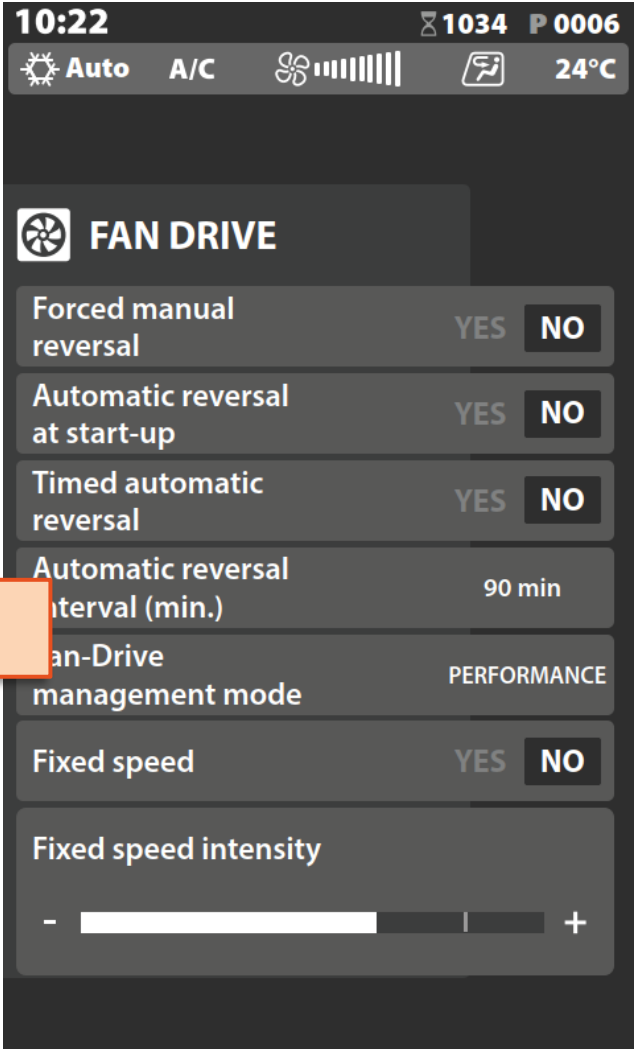
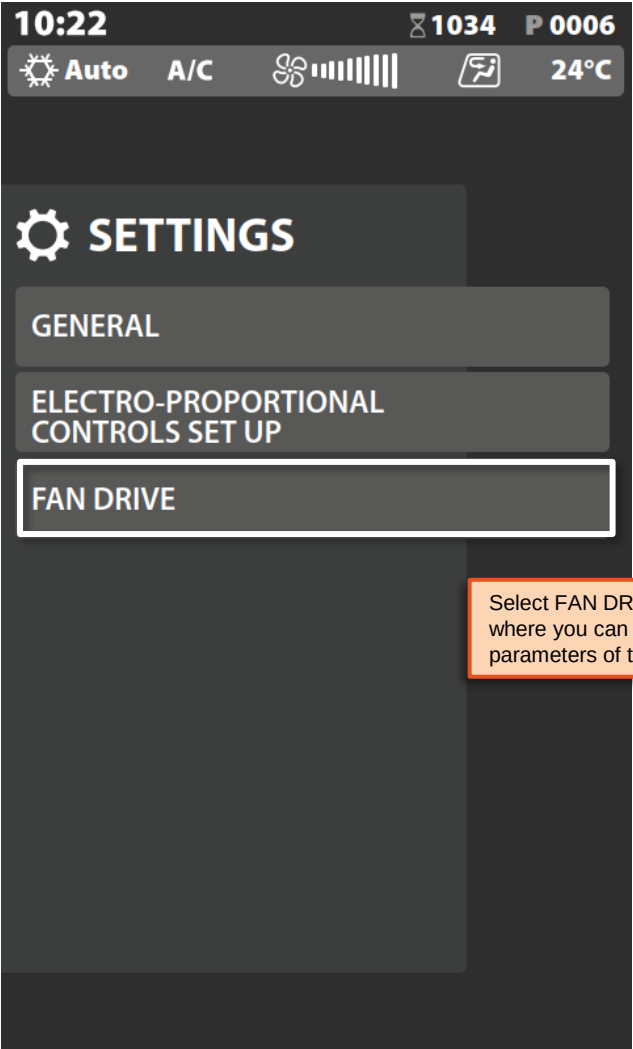
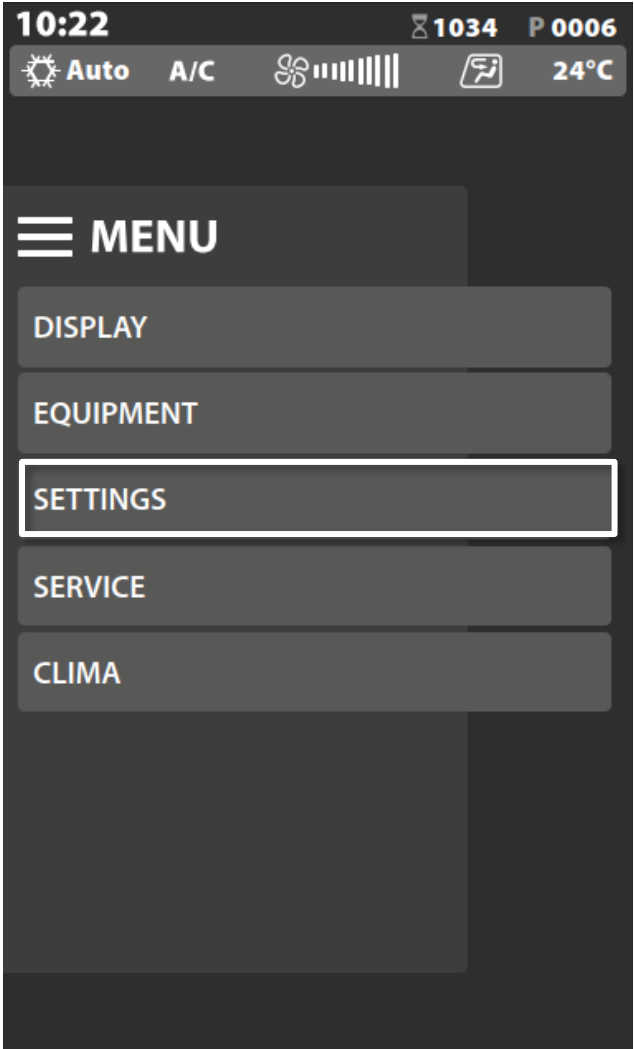


Select "ELECTROPROPORTIONAL CONTROL CONFIGURATION" to access a submenu and select a specific use, allowing you to:- Modify/set the settings of the electroproportional actuators controlled by the rollers on the joysticks; in particular, you can modify the oil flow rate in both directions and the roller control sensitivity;- Reset all changes made by the operator, restoring all electroproportional control parameters to the factory settings. For each selected use, it is also possible to access the "DEVICE RESET/ELECTROPROPORTIONAL CONTROL" page.



After selecting the desired application, you will be taken to a page with editable settings:- Percentage of flow in both directions- Sensitivity from a minimum of 0 (ON/OFF effect of the control) to a maximum of 4 (very sensitive control)

DISPLAY – MENU/SETTINGS



Select FAN DRIVE to enter the submenu where you can change the operating parameters of the fan management.

DISPLAY – MENU/SETTINGS

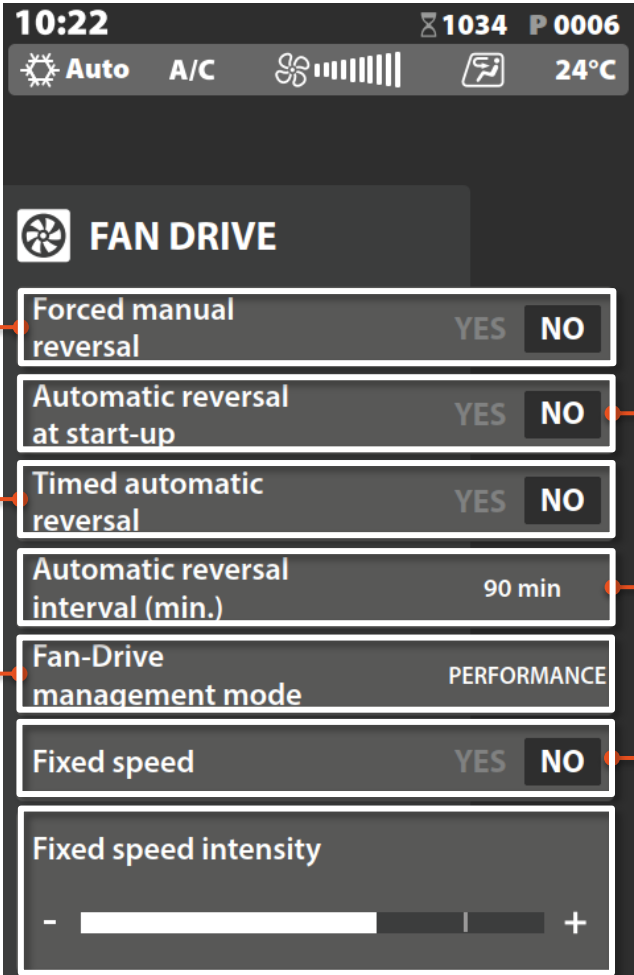
FORCED FAN REVERSAL
By changing this value, you can manually force the fan to reverse during operation. The fan will begin rotating in reverse at maximum speed for 90 seconds, then return to its normal direction, and the forced manual reversal value will be reset to **NO**.

TIMED AUTOMATIC REVERSAL
By changing this value, you can activate a function that automatically reverses the fan rotation direction after a specified period (by default, every 90 minutes of operation). Each reversal lasts 60 seconds, and once completed, the fan rotates in the normal direction.

Fan Drive Management Mode
The control unit regulates the fan speed based on the coolant temperature and the hydraulic oil temperature in two modes:

- **STANDARD:** Mode that provides optimal acoustic comfort while maintaining a limited fan speed. This mode is particularly suitable for cold climates.
- **PERFORMANCE:** Provides maximum cooling by operating at a higher fan speed than standard mode. This mode is particularly suitable for hot climates.

The FAN DRIVE management function **includes a memory function**. It remains active even after the machine is restarted.

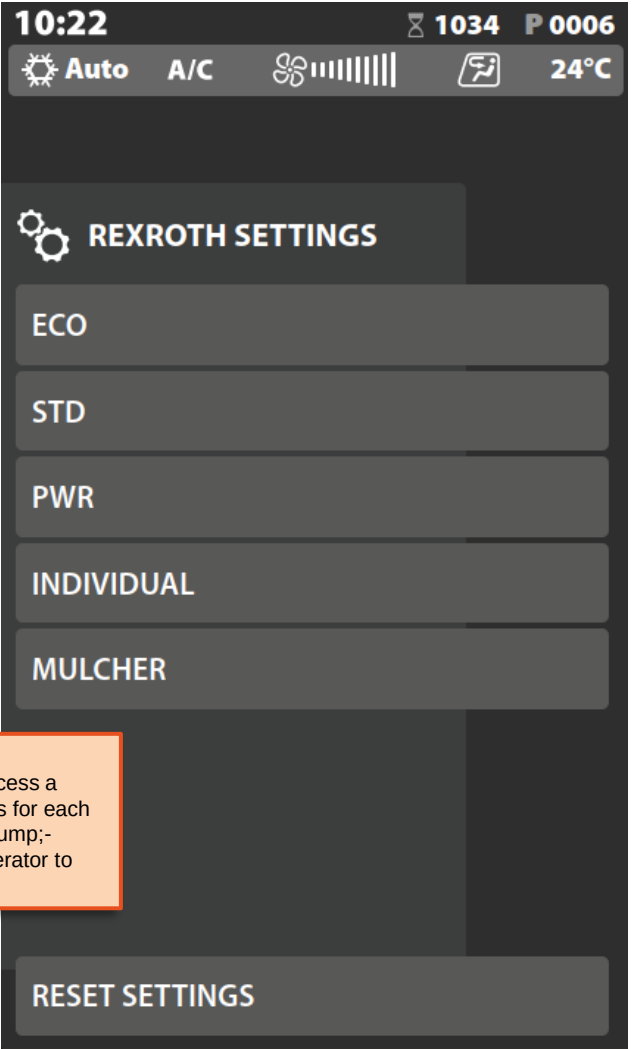
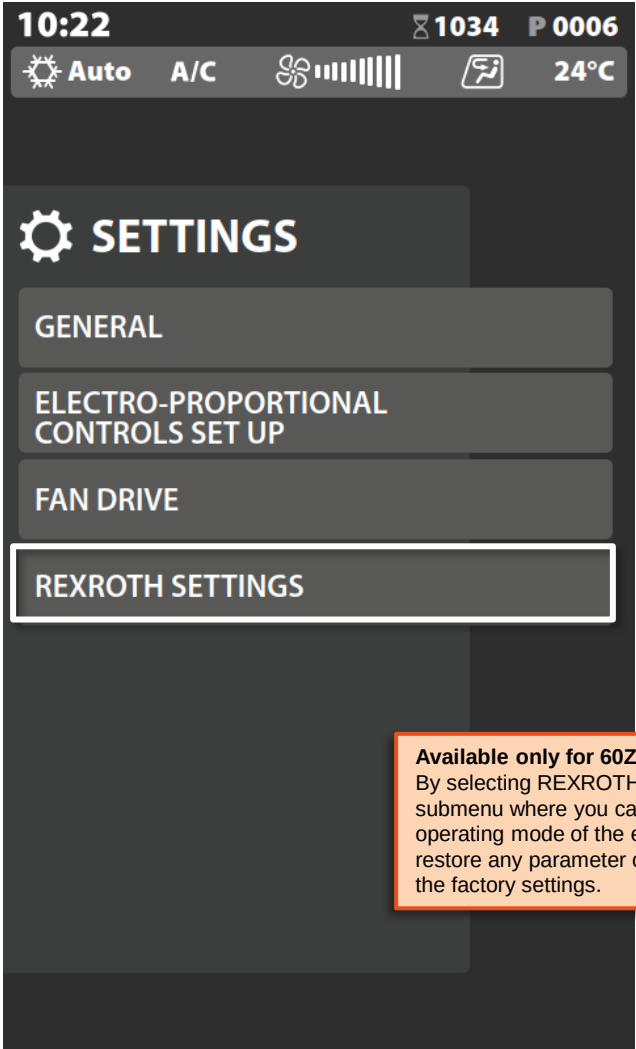
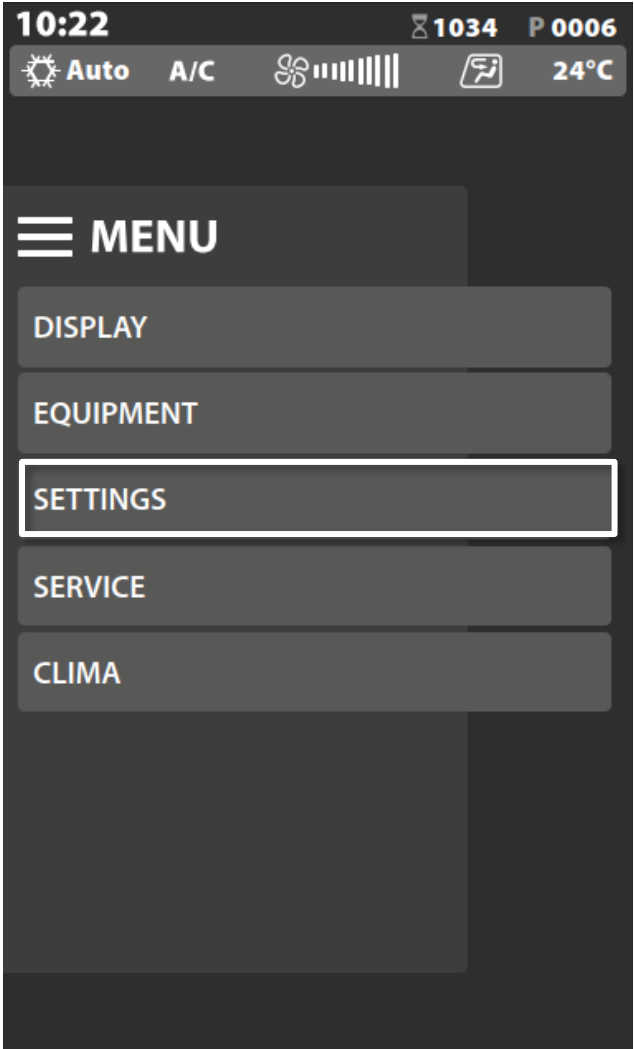


AUTOMATIC FAN REVERSAL AT START
Each time the machine starts, the fan rotation direction is automatically reversed for approximately 30 seconds. Afterward, the fan rotates in its normal direction. You can disable this function by changing this value. Selecting **NO** suspends automatic fan reversal every time the machine starts.

AUTOMATIC REVERSAL INTERVAL
This function allows the operator to change the time interval between two automatic fan reversals. The displayed value (expressed in minutes) can be changed from a minimum of 30 to a maximum of 240 (the default is 90). Ensure that **TIMED AUTOMATIC REVERSAL** is set to **YES** so that when the machine is turned on, the fan rotation is automatically reversed at each set time interval.

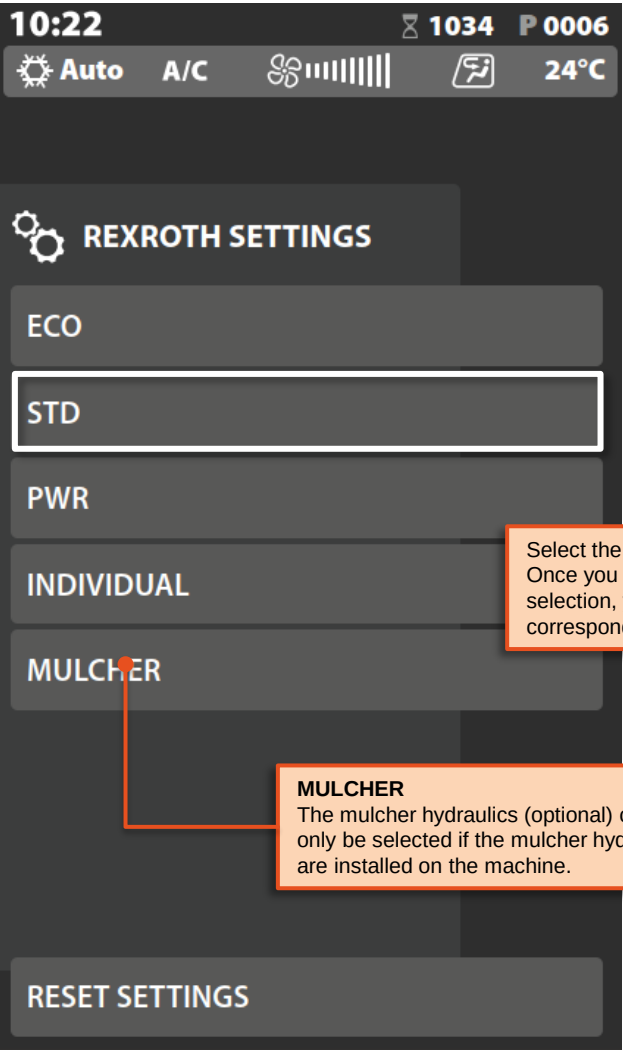
FIXED SPEED
The **FIXED SPEED** function is useful for reducing the fan speed and thus the noise generated by the motor. Enabling this function means that the fan speed is no longer automatically controlled by the controller but is set to a fixed value selectable by the operator. Once the function is enabled, the "Fixed Speed Intensity" bar appears: the operator can choose between four speed values. The fan continues to rotate at the set fixed speed until one of the temperatures (coolant temperature and hydraulic oil temperature) reaches the maximum allowable value. At this point, the fan drive's standard operation is restored. Once both temperatures return to normal, the fan resumes rotating at the fixed speed set by the operator.

DISPLAY – MENU/SETTINGS (NUR 60ZT – 65 TR – 75 ZT – 75 TR)



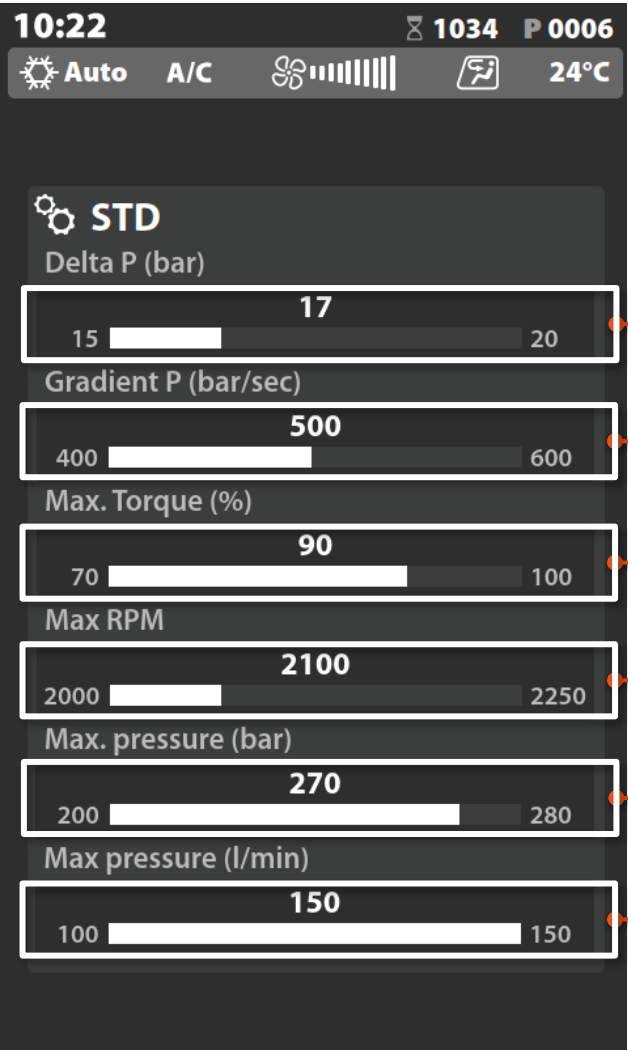
Available only for 60ZT-65TR – 75 ZT – 75TR;
By selecting REXROTH SETTINGS, you can access a submenu where you can:- modify the parameters for each operating mode of the electronically controlled pump;- restore any parameter changes made by the operator to the factory settings.

DISPLAY – MENU/SETTINGS (NUR 60ZT – 65 TR – 75 ZT – 75 TR)



Select the desired modality. Once you have made your selection, you can change the corresponding SETTINGS

MULCHER
The mulcher hydraulics (optional) can only be selected if the mulcher hydraulics are installed on the machine.



Delta P
The pressure difference between pump P1 and the LS pressure determines the gamma value and the movement speed (the higher the gamma, the higher the speed).

Gradient P
The maximum pressure variation P1 per unit of time that the system allows. Determines the pump's reactivity (the higher the gradient, the more immediately the pump intervenes).

Maximum torque
Percentage of the diesel engine's maximum torque

Maximum RPM
Maximum engine speed

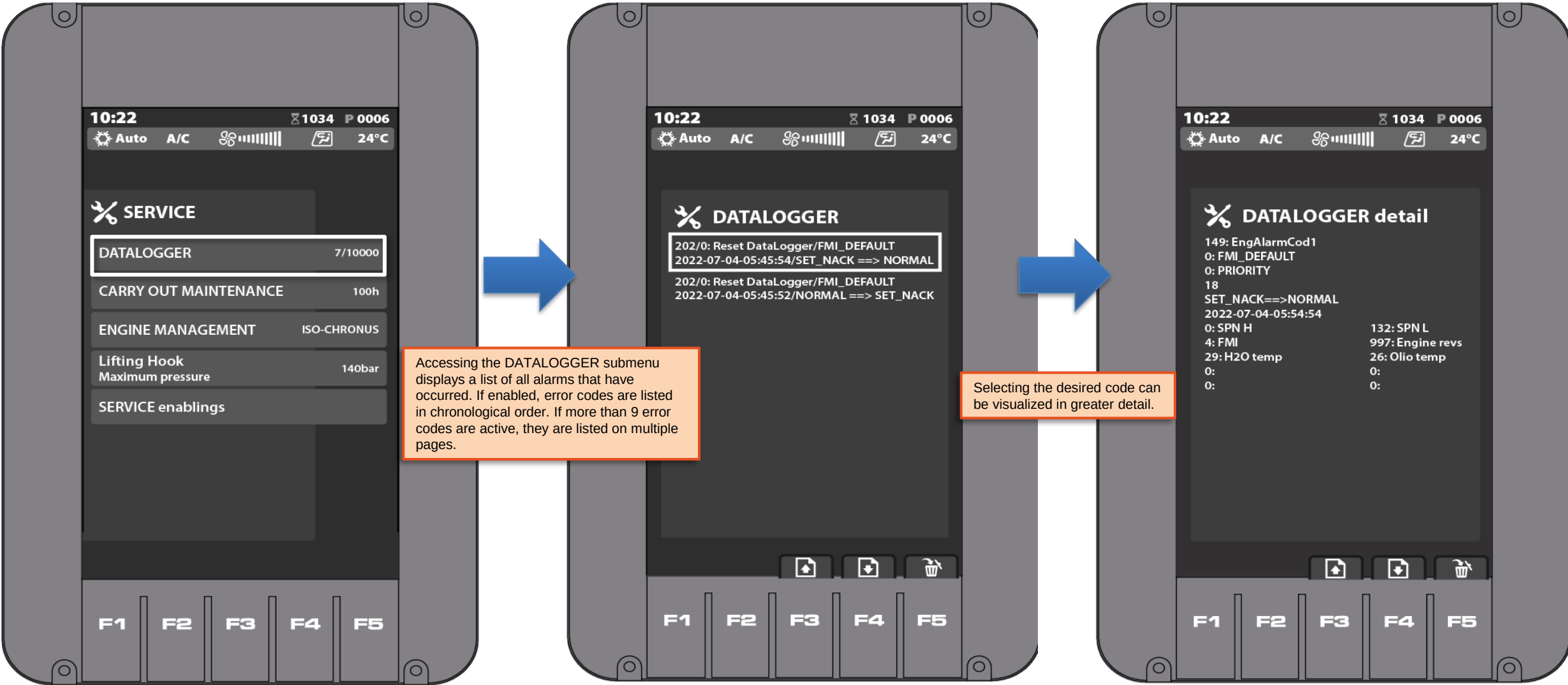
Max pressure
Maximum pressure that the system can attain.

Max flow
Maximum total flow rate that the system can attain.

DISPLAY - MENU/ SERVICE SCREEN



DISPLAY - MENU/ SERVICE SCREEN



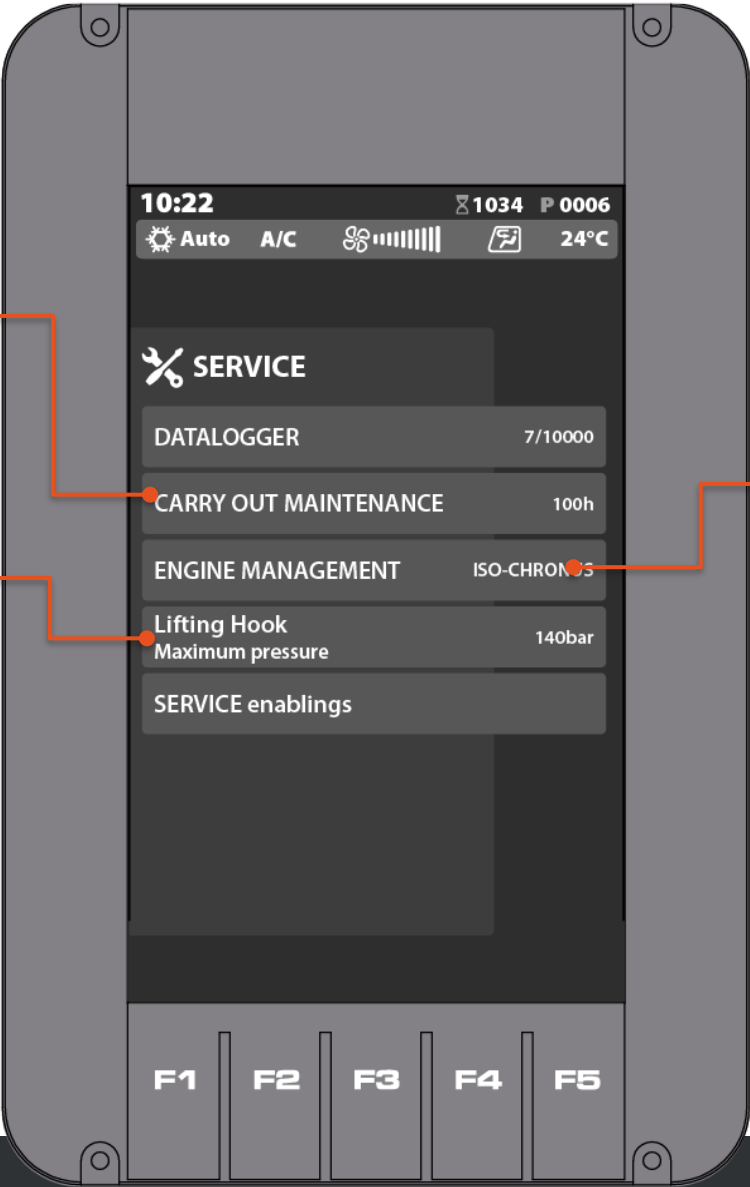
Accessing the DATALOGGER submenu displays a list of all alarms that have occurred. If enabled, error codes are listed in chronological order. If more than 9 error codes are active, they are listed on multiple pages.

Selecting the desired code can be visualized in greater detail.

DISPLAY - MENU/ SERVICE SCREEN

CARRY OUT MAINTENANCE
This command allows you to reset the maintenance interval. The remaining hours until the next scheduled maintenance are then reset to 250 hours. This reset occurs each time the machine is serviced.

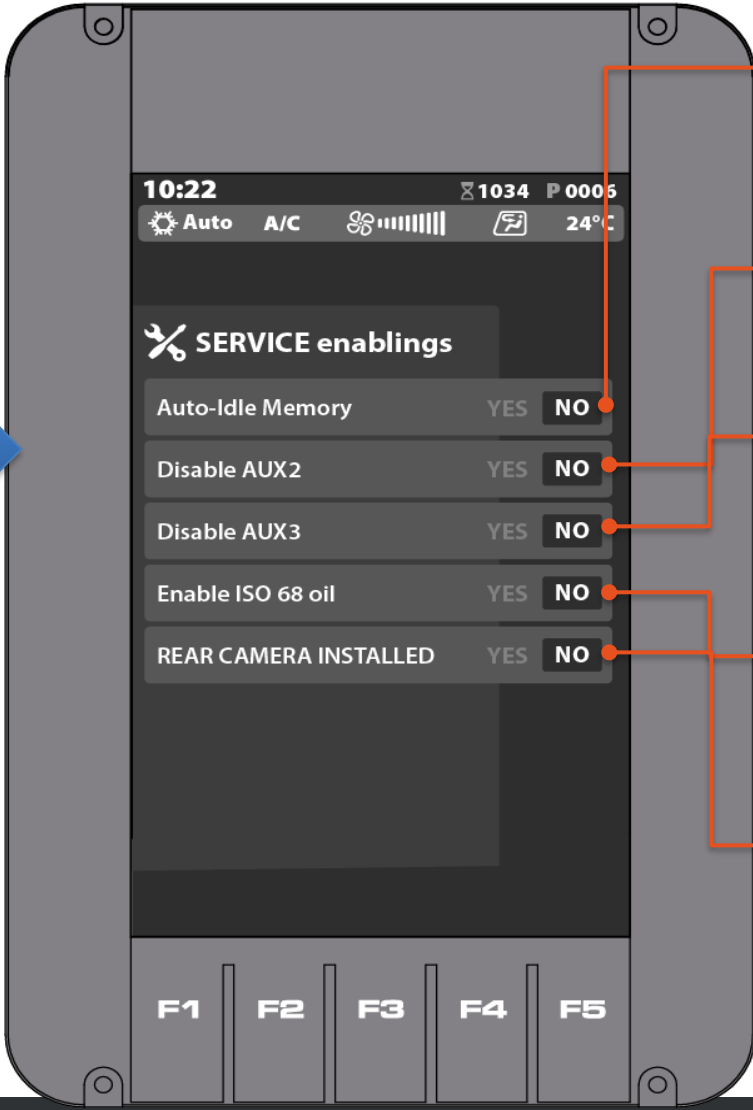
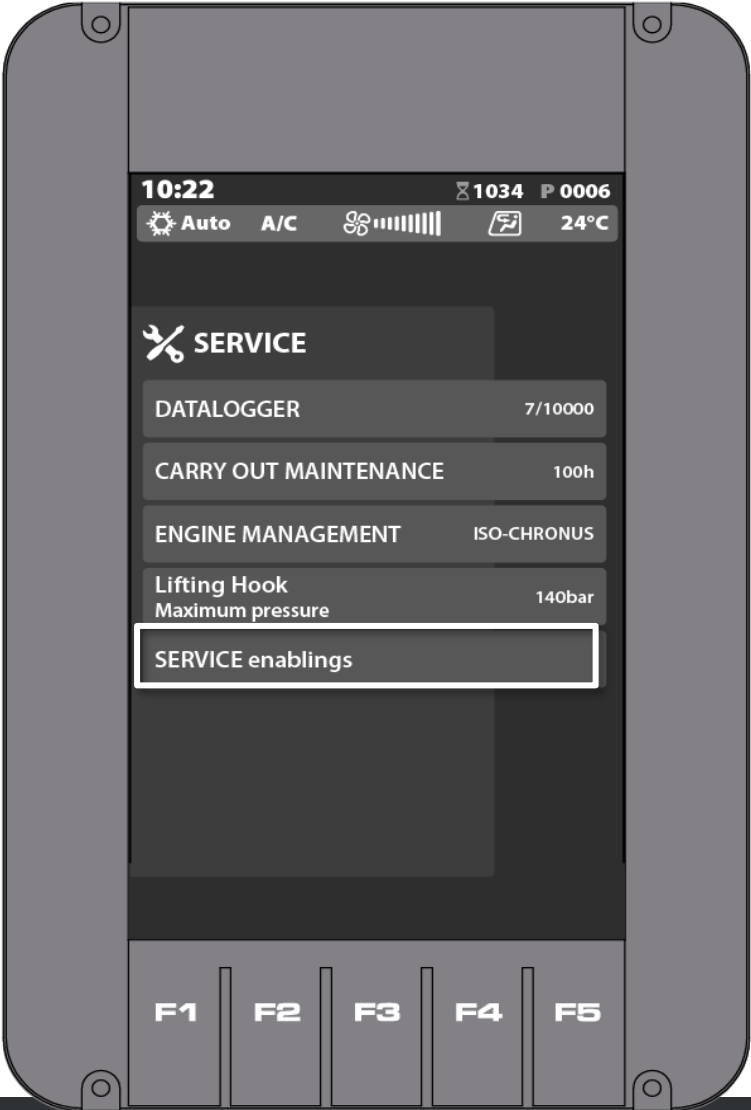
Lifting Hook – Overload warning device (since 1st February 2025 with EN 474 serial equipment)
This option can only be selected if the overload lifting device is installed. Changing this value changes the activation mode of the buzzer while a load is being lifted by the arm. The buzzer will sound when the set pressure limit is reached, i.e., when the arm is overloaded.



ENGINE MANAGEMENT
With the ENGINE MANAGEMENT option, you can adjust the engine speed control based on the load:

- **ISO-CHRONUS (default setting):** The engine speed is independent of the load and therefore constant. The engine continuously attempts to maintain the desired speed and accelerates as needed to reach the correct speed after the hydraulic system has consumed power until the available power is exceeded at the speed set by the accelerator pedal and requested by the operator.
- **DROOP:** The engine speed is load-dependent. Example: The engine speed is set to 2000 rpm, work is started, and the hydraulic system requests power. The hydraulic system consumes engine power, causing the engine to decelerate to 1900 rpm. These 100 rpm (2000-1900=100) are therefore never used, increasing fuel consumption and idle noise without providing any benefit.

DISPLAY - MENU/ SERVICE SCREEN



AUTO-IDLE MEMORY
Changing the default value from NO to YES enables AUTO-IDLE MEMORY. If set to NO and the machine is stopped, the command is not saved to memory and is not reactivated when the machine is restarted. If set to YES, the opposite effect occurs.

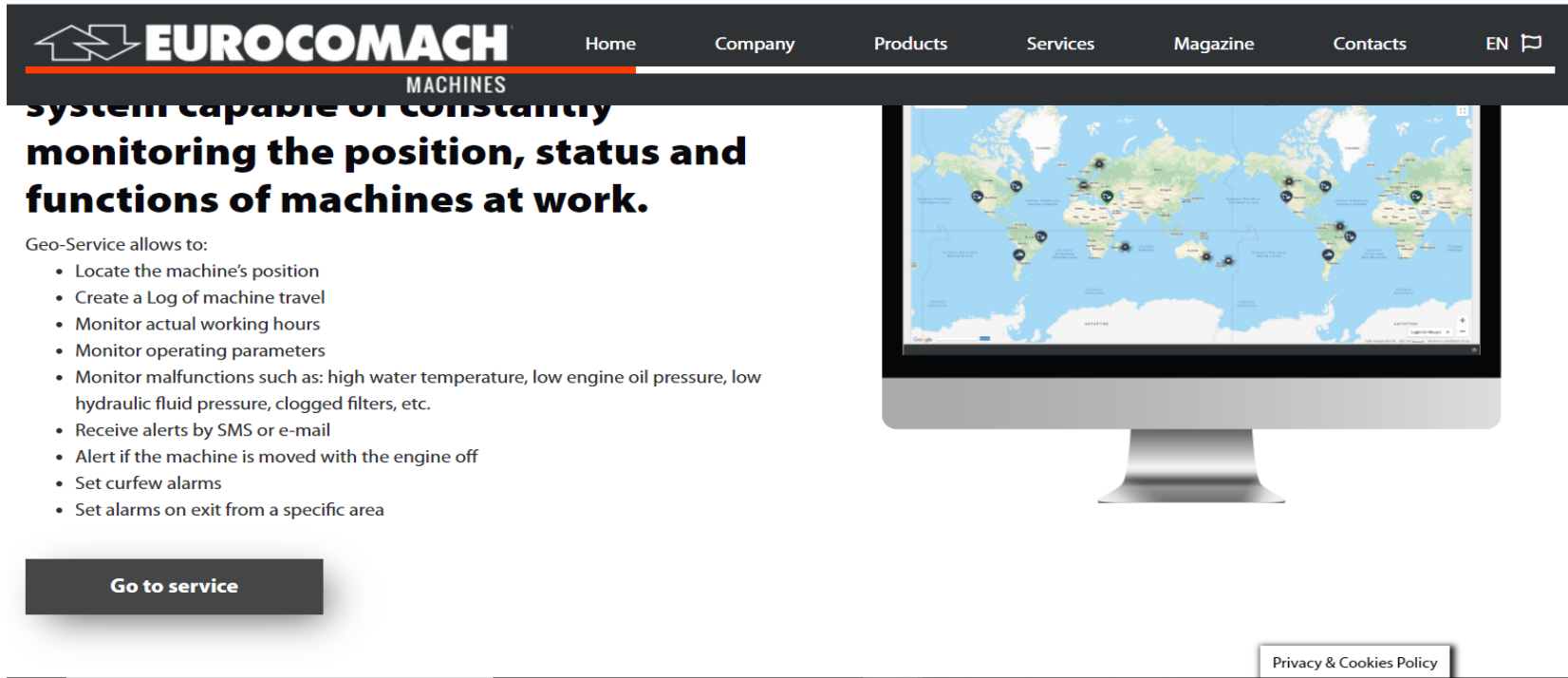
Deactivate AUX2
Changing the default value "YES" to "NO" enables the AUX2 hydraulic function.

Deactivate AUX3 Changing the default value "YES" to "NO" enables the AUX3 hydraulic function.

ISO 68 Engine Oil
This item should only be changed if the machine is equipped with ISO 68 oil instead of the standard ISO 46 oil. Changing the default value from NO to YES will reset the oil temperature indicator and the associated warning light.

Deactivate rear view camera
This item should only be changed if the rear-view camera is installed in the vehicle (EN474 standard since February 1, 2025). Changing the default value from NO to YES deactivates the rear-view camera function.

APPENDIX 2: GEO-SERVICE SATELITE SYSTEM DETAILS



The screenshot displays the EUROCOMACH website's 'MACHINES' section. The header includes the company logo and navigation links: Home, Company, Products, Services, Magazine, Contacts, and EN. The main heading reads 'system capable of constantly monitoring the position, status and functions of machines at work.' Below this, a list of capabilities is provided under the heading 'Geo-Service allows to:'. To the right, a computer monitor displays a world map with several location pins. A 'Go to service' button is located at the bottom left of the main content area, and a 'Privacy & Cookies Policy' link is at the bottom right.

EUROCOMACH
MACHINES

Home Company Products Services Magazine Contacts EN

system capable of constantly monitoring the position, status and functions of machines at work.

Geo-Service allows to:

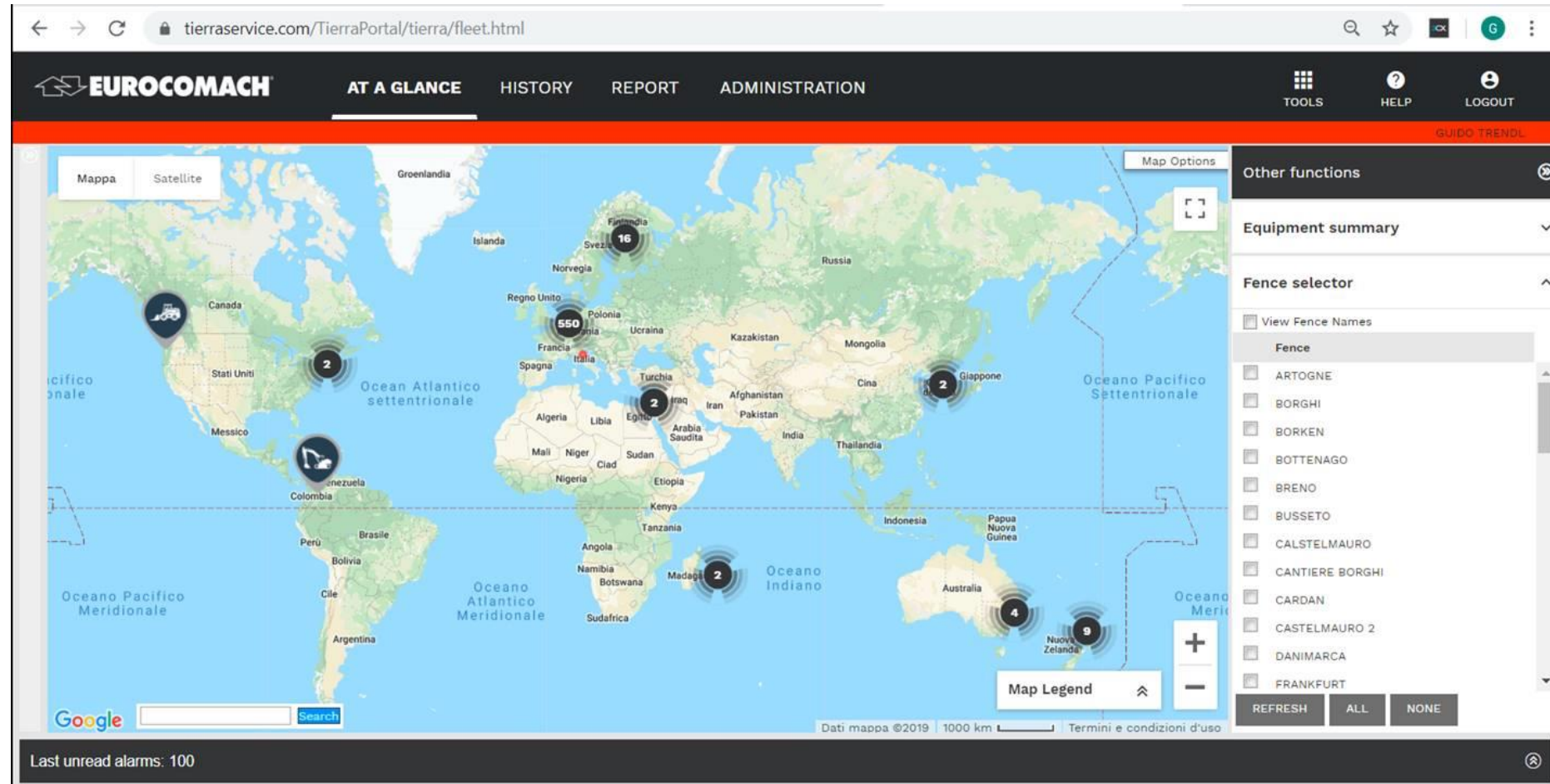
- Locate the machine's position
- Create a Log of machine travel
- Monitor actual working hours
- Monitor operating parameters
- Monitor malfunctions such as: high water temperature, low engine oil pressure, low hydraulic fluid pressure, clogged filters, etc.
- Receive alerts by SMS or e-mail
- Alert if the machine is moved with the engine off
- Set curfew alarms
- Set alarms on exit from a specific area

[Go to service](#)

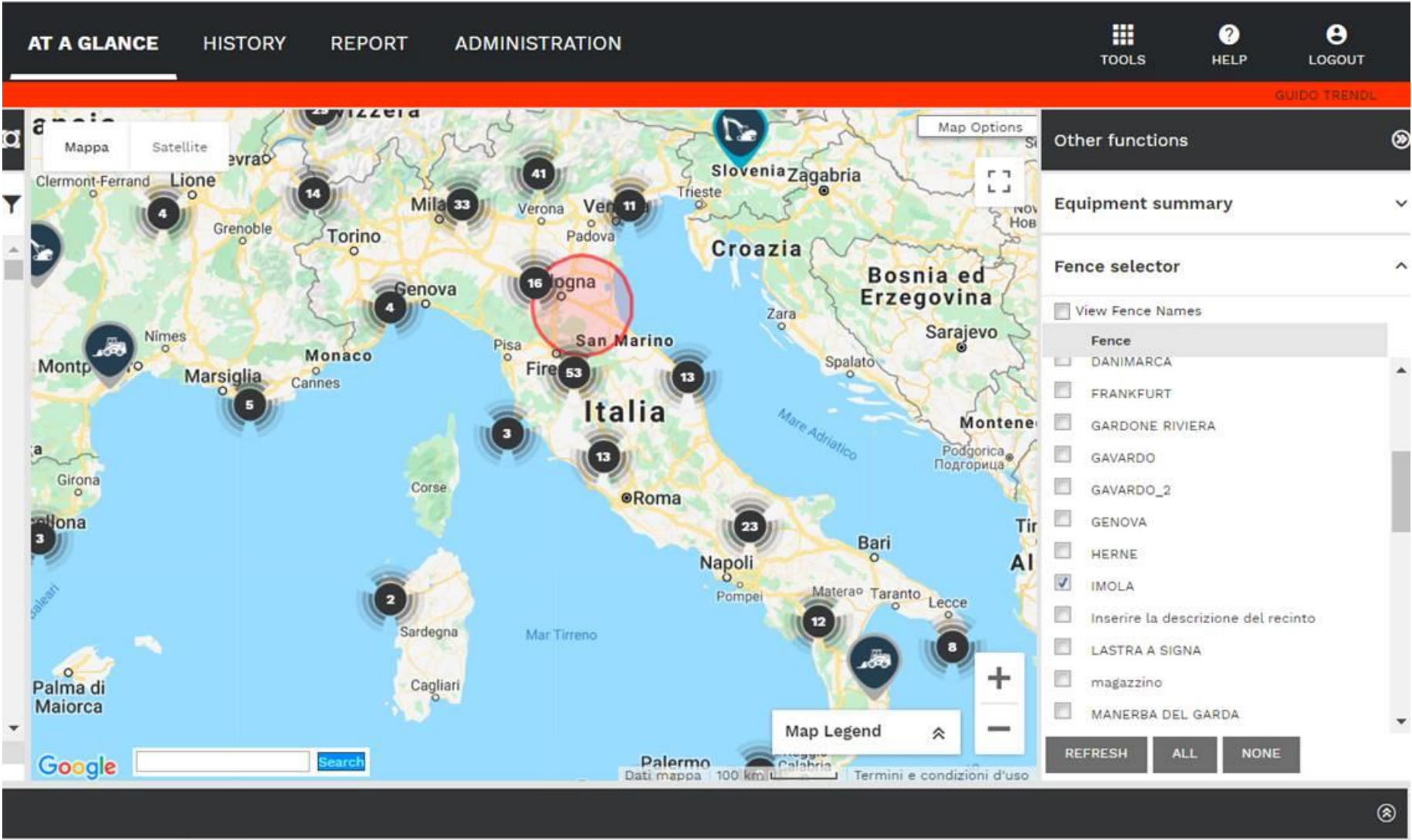
[Privacy & Cookies Policy](#)

- Enter our website with Password
- Localization
- Service operations-Functionality
- Anomaly -Diagnostics
- Alarm- and error messages

OVERVIEW: LOCATION OF THE COMPLETE FLEET IN REAL TIME WITH GEO SERVICE



OVERVIEW: SET UP A SPECIFIC AREA AND RECEIVE ALERTS



HISTORICAL COURSE: TRACING MOVEMENTS OF THE MACHINE WITH GEO SERVICE

[←](#) [→](#) [↺](#) tierraservice.com/TierraPortal/tierra/history.html 🔍 ☆ 📱 | G

[AT A GLANCE](#)
[**HISTORY**](#)
[REPORT](#)
[ADMINISTRATION](#)

TOOLS
HELP
LOGOUT

GUIDO TRENDL

Mappa Satellite

Dati mappa ©2019 100 m Termin e condizioni d'uso Segnala un errore nella mappa

Results

Fence selector

History details

Equipment	Timestamp	S...	Engine Hours	Message ty...
18TL - BU0...	03/12/2019 16:...	N/A	N/A	Engine ON
18TL - BU0...	03/12/2019 16:...	0	N/A	ON Message
18TL - BU0...	03/12/2019 16:1...	0	N/A	CAN
18TL - BU0...	03/12/2019 16:1...	0	0.19	Engine OFF...
18TL - BU0...	04/12/2019 04:...	0	N/A	Sleep
18TL - BU0...	04/12/2019 08:...	N/A	N/A	Engine ON
18TL - BU0...	04/12/2019 08:...	4	N/A	ON Message

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Message type: Engine ON
Location: 49, Via Leonardo da Vinci, Barciani di Sopra, Bagno di Romagna, FC, EMR, Italia [03/12/2019 16:01:57] ***
Equipment Status:
Equipment Id: 18TL - BU00051 - SAMPIERANA
Timestamp: 03/12/2019 16:02:45
Speed: N/A
GPS-Fix: 3D
GPS-Based Odometer [Km]: 0.8

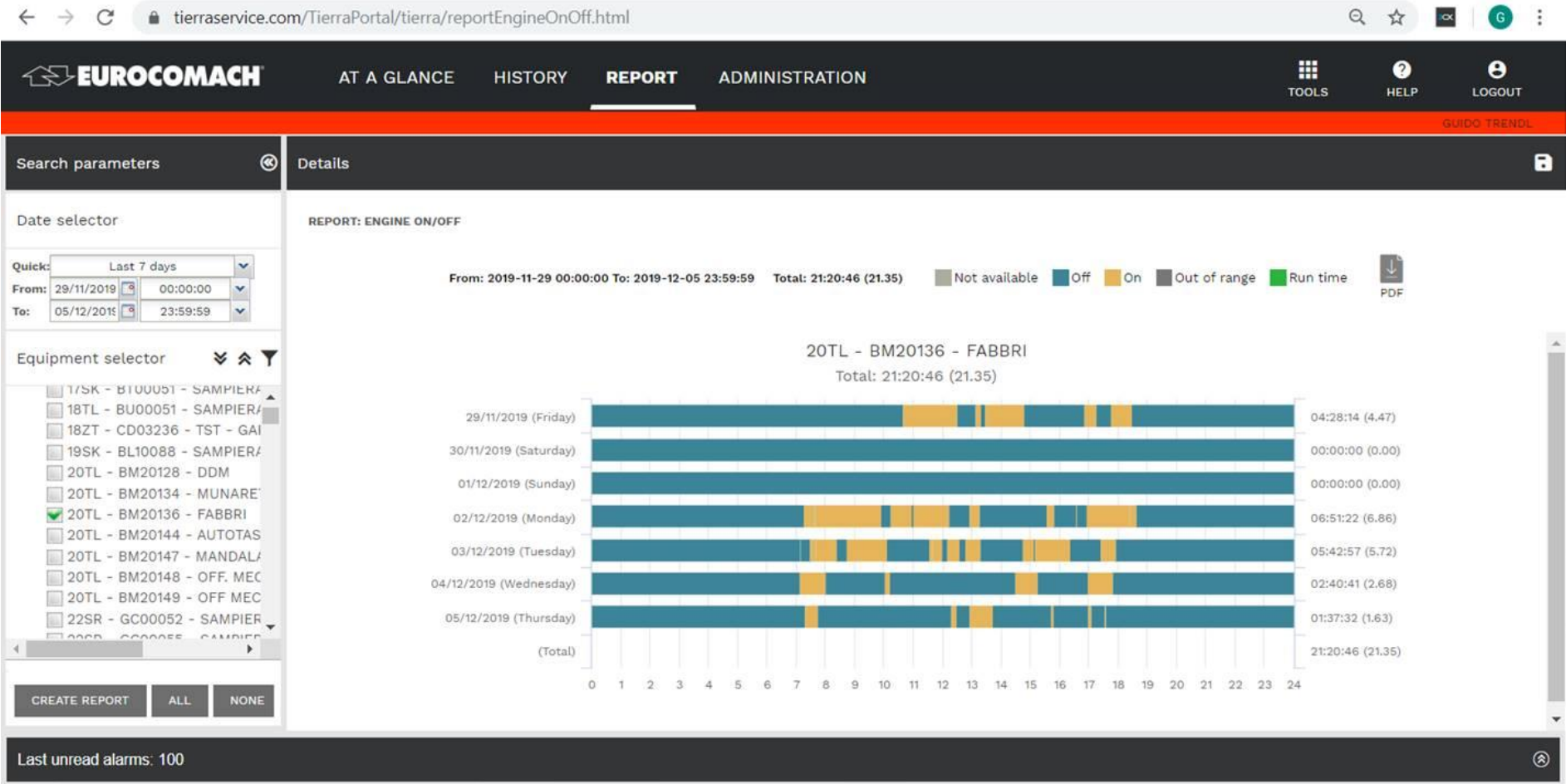
Last unread alarms: 100

REPORT: PERFORM REMOTE DIAGNOSTICS OF THE MACHINE WITH GEO SERVICE

There are some data that can be collected with GEO SERVICE:

- Alarms: with this function it is possible to get access to different types of alarm. Some alarms are related to maintenance and service, such as: a certain number of hours have been reached to perform the initial service. Others relate to customer-specific requests, such as alarms that say the machine has not sent a signal for several days or has left a customer-defined area.
- Operating hours: displays the machines of one or more machines
- Motor AN / AUS: creates usage statistics for one or more machines
- Maintenance, maintenance notes, productivity, utilization, activity profiles; Work vs. work Utilization, CAN bus data (engine temperature and speed)
- Intended: Fuel consumption in l / h, filters, cost analyzes

REPORT: ENGINE AN/ AUS



REPORT: MAINTENANCE

tierraservice.com/TierraPortal/tierra/reportMaintenance.html

EUROCOMACH

AT A GLANCEHISTORYREPORTADMINISTRATION

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Report: Maintenance

Overdue

Due soon

In progress

Not due

Incomplete

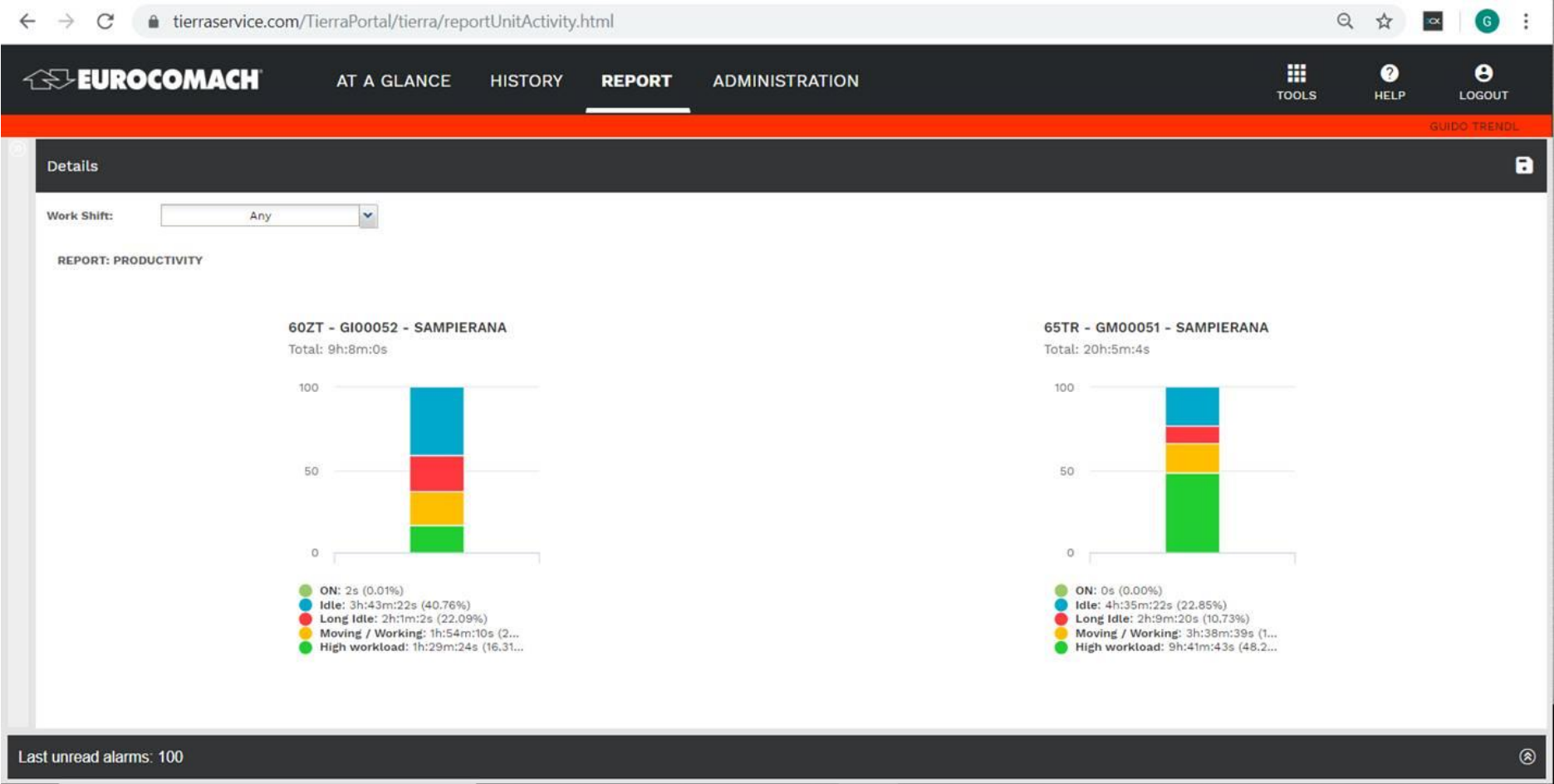
Equipment Id	Fleet	Last Position	Type	Status	Next service	View on map
						Select
						All / None
17SK - BT00051 - SAMPIERANA	0 _ SAMPIERANA, 0_ SA...	Via Luigi Pasteur, Villanuova sul Clisi, ...	500	Not due	96.72 Engine Hours left to 100 projected Engine Hours	☐
18TL - BU00051 - SAMPIERANA	0 _ SAMPIERANA, 0_ SA...	49, Via Leonardo da Vinci, Barciani di ...	500	Not due	99.15 Engine Hours left to 100 projected Engine Hours	☐
60ZT - GI00051 - SAMPIERANA	0 _ SAMPIERANA, 0_ SA...	49, Via Leonardo da Vinci, Barciani di ...	250	Overdue	-130.7 Engine Hours left to 100 projected Engine Hours	☐
60ZT - GI00052 - SAMPIERANA	0 _ SAMPIERANA, 0_ SA...	49, Via Leonardo da Vinci, Barciani di ...	500	Not due	54.7 Engine Hours left to 100 projected Engine Hours	☐
65TR - GM00051 - SAMPIERANA	0 _ SAMPIERANA, 0_ SA...	Strada Statale 3 bis Tiberina, Barciani...	250	Due soon	17.67 Engine Hours left to 100 projected Engine Hours	☐
ES100TR4 - DL00283 - SAMPIERANA	0 _ SAMPIERANA, SAMP...	Strada Statale 3 bis Tiberina, Barciani...	500	Not due	89.42 Engine Hours left to 100 projected Engine Hours	☐

VIEW ON MAP

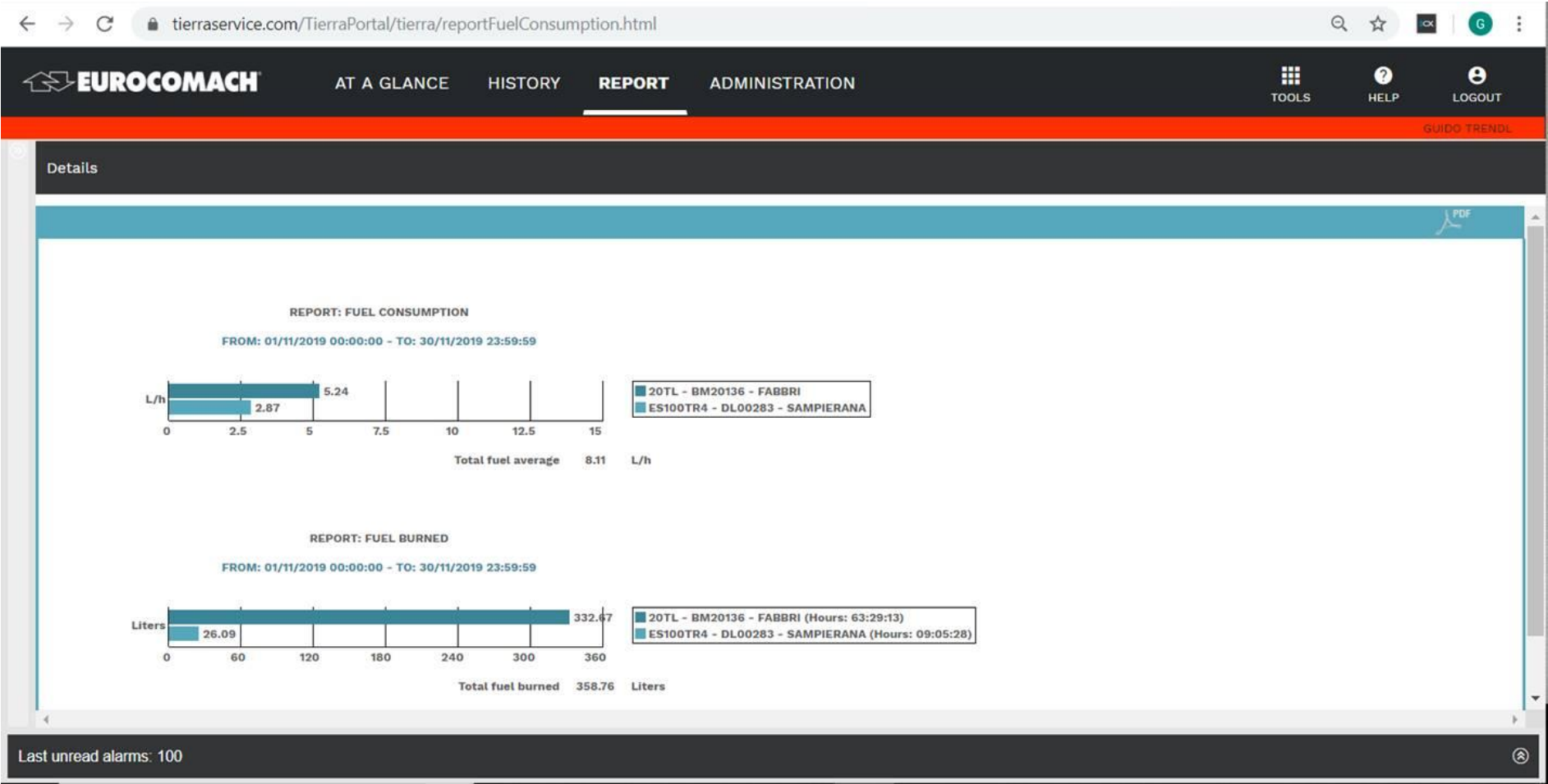
Tip: Double click on inner detail grid rows to view further details

Last unread alarms: 100

REPORT: PRODUCTIVITY



REPORT: FUEL CONSUMPTION



REPORT: CAN – BUS DATA:

REMOTE ANALYSIS AND SERVICE ASSISTANCE FROM THE FACTORY

← → ↺

tierraservice.com/TierraPortal/tierra/reportCan.html

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AT A GLANCE

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Report: CAN-Bus data

Date	Accelerator Potentio...	Air Cleaner Alarm [dig]	Amber Warring Lam...	Ambient Air Temper...	-Amount of particol...	-Amount of pa
0283 - SAMPIERA... 04/11/2019 08:06:42	0	0	0	18.812	1.660	
0283 - SAMPIERA... 04/11/2019 08:08:57	0	0	0	30.500	1.900	
0283 - SAMPIERA... 04/11/2019 08:25:27	0	0	0	28.500	2.890	
0283 - SAMPIERA... 04/11/2019 08:31:27	0	0	0	28.312	2.530	
0283 - SAMPIERA... 04/11/2019 08:44:17	0	0	0	31.937	2.640	
0283 - SAMPIERA... 04/11/2019 08:54:40	0	0	0	32.250	2.870	
0283 - SAMPIERA... 04/11/2019 09:51:43	0	0	0	30.750	3.110	
0283 - SAMPIERA... 04/11/2019 10:30:51	0	0	0	26.437	2.320	
0283 - SAMPIERA... 04/11/2019 10:55:21	0	0	0	31.375	2.480	
0283 - SAMPIERA... 04/11/2019 11:50:40	0	0	0	35.687	3.580	
0283 - SAMPIERA... 04/11/2019 13:35:31	0	0	0	27.718	2.830	
0283 - SAMPIERA... 04/11/2019 13:46:39	0	0	0	38.062	2.690	
0283 - SAMPIERA... 09/11/2019 10:38:22	0	0	0	17.312	1.840	
0283 - SAMPIERA... 09/11/2019 10:48:22	0	0	0	33.062	2.260	
0283 - SAMPIERA... 09/11/2019 10:52:05	0	0	0	36.375	2.250	
0283 - SAMPIERA... 11/11/2019 10:38:34	0	0	0	13.156	3.860	

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Report data selection

Description	Unit
☒ Accelerator Potentiometer Break	bit
☒ Air Cleaner Alarm	dig
☒ Amber Warring Lamp	dig
☒ Ambient Air Temperature	deg C
☒ -Amount of particulate matter P method	g/L
☒ -Amount of particulate matter C method	g/L
☒ Barometric Pressure	kPa
☒ Battery voltage	V
☒ Diesel Particulate Filter Status - ATTIVA	Status
☒ DPF Active Regen. Status - HIGHEST LEVEL	Status
☒ DPF Regeneration Inhibit	dig
☒ DPF Regeneration Inhibit Lamp	
☒ -DPF regeneration mode status	status
☒ -DPF regeneration progress percentage	%
☒ Engine Low Oil Pressure Alarm	dig
☒ --- Engine Air Inject Pressure ----	Kpa
☒ Engine Coolant Temperature	deg C

VIEW DATA

SELECT ALL

SELECT NONE

Last unread alarms: 100