



42 ZT

45 TR

50 ZT

55 TR

The new mini excavator series 4.2 – 5.5 tons
Series Eurocomach 2021

42ZT – 45TR - 50ZT - 55TR

1. INTRODUCTION: NEW MACHINE STANDARD - Models 42ZT - 45TR - 50 ZT - 55TR

The machine sets a whole new standard because it meets all the demands of the high demanding user:

The machines have been completely redesigned from the undercarriage (widths 42 ZT and 45 TR of 1.75m or 50ZT and 55TR of 1.90m), the booms and the turrets. As a result, the performance and comfort, in addition to the adaptation to the new engine standards EU STAGE V - EPA Tier 4 Final, could be significantly improved:



- Machine with Trasversal side engine concept (better accessibility for maintenance, more space for the driver in the cabin and better cabin climate, less noise and less heat development since the engine is completely separated from the cabin)
- with an exceptionally high lifting capacity
- foldable and cushioned comfort cabin with radio (optional)
- optionally with: diesel refueling pump or air conditioning
- Joysticks with 5 proportional switches, articulated arm and auxiliary circuits AUX 1 (standard), adjustable boom (45 TR & 55 TR) and optionally with: AUX 2, AUX 3 and leakage oil line
- Infinitely customizable such as staff color, chain types, hydraulic accessories and attachments, etc.

1.1. PERFORMANCE FEATURES

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

- *1800cc Kubota (42 ZT & 45 TR) / or 2400cc (50 ZT & 55 TR) Turbo EURO Stage V - TIER 4 FINAL with integrated particle filter (complete factory solution) even more power compared to the previous series (now turbo with 6 HP more power at 42 ZT & 45 TR and 12 hp more power for the 50 ZT & 55 TR)*
- *Electronically controlled LS pump and working mode setting (ECO-STANDARD-POWER): compared to the previous series, even better coordination between working type, pump and motor - the machine is even more reactive.*
- *Fan drive cooling system (viscous fan as in large machines) with automatic inversion and speed optimization and setting compared to the previous series even better cooling with significantly lower external noise*
- *Display TIERA 7: with liter quantity setting of all proportional switches in addition to AUX1,2,3 also articulated arm, adjustable boom optional, autoidle, particle filter, and work mode management, electrical switchover AUX 1 now new was not available in the previous series*



1.2. COMFORT FEATURES



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

- Larger, cushioned comfort cabin with a wider entrance (compared to the previous series, the engine is now installed vertically at an angle, which means that even more space can be gained)
- New soft-touch joysticks with horizontal rocker on the back (now new was not available in the previous series, the horizontal rockers are now on the back no longer on the front)
- Fan - drive cooling system (viscous fan) with new lamella system (compared to the previous series significantly lower external noise)
- Display TIERA 7 and more reactive hydraulic system more comfort by choosing the working modes (ECO - STANDARD - Power), electric switch AUX1, liter volume setting, etc.

1.4. MODEL OVERVIEW



1.4. MODEL OVERVIEW

42 ZT **monobloc boom**

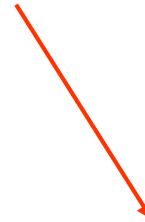
Digging depth: 3.085 mm
Operating weight: 4.050 kg
Maximum Power: 1826cc Turbo - 43.9 HP
Width 1.750mm



45 TR **two pieces boom**

Digging depth: 3.230 mm
Operating weight: 4.600 kg
Maximum Power: 1826cc Turbo - 43.9 HP
Width 1.750mm

additional ballast: 280 kg



42 ZT & 45 TR:

- Both models have been completely redeveloped from the undercarriage (width 1750mm) and turret to meet the high demands of the North American and European markets. The **42 ZT is a zero tail with a monobloc boom**. The **45 TR is a compact tail with two pieces boom**.

42ZT

Weight Canpy/ Cabin

4.050 / 4.200 kg

Turbo Engine Stage V

1826 cc [32,3 KW - 43,9 HP]

LS – EC FLOW SHARE HYDR

107 + 22,3 lt/min

Main boom length

2.500 mm

Dipper length

Standard 1.400 mm

optional 1.650 mm

Dig. depth std. 3.085 mm

Dig. depth opt. 3.335 mm

additional rear weights

optional 280 Kg

or 420 Kg

Control

Joysticks Bosch - Rexroth
Softtouch with multi
proportional control



45TR

Weight Canpy/ Cabin

4.450 / 4.600 kg

Turbo Engine Stage V

1826 cc [32,3 KW - 43,9 HP]

LS – EC FLOW SHARE HYDR

107 + 22,3 lt/min

Main Boom + Positioner

1.580 mm + 1.460 mm

Dipper length

standard 1.400 mm

optional 1.650 mm

Dig. depth std. 3230

Dig. depth opt. 3480

additional rear weights

standard 280 Kg

optional 420 Kg

Control

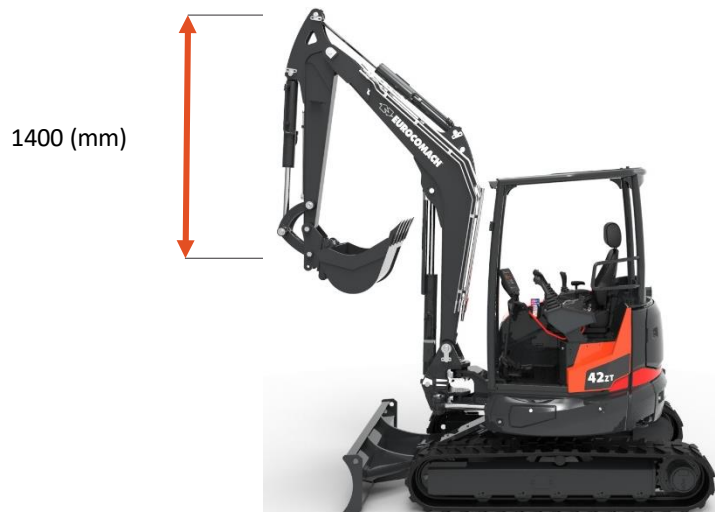
Joysticks Bosch - Rexroth
Softtouch with multi
proportional control



42 ZT & 45 TR

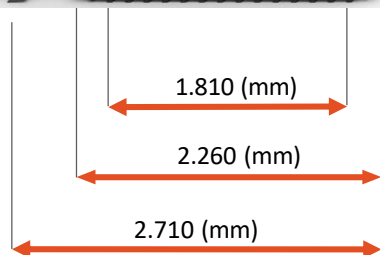
- Undercarriage with X profile and sloping side parts with a width of 1750mm and longer side parts offer additional stability. Compared to the 42 ZT, the 45 TR has the additional rear weight installed as standard.

42ZT

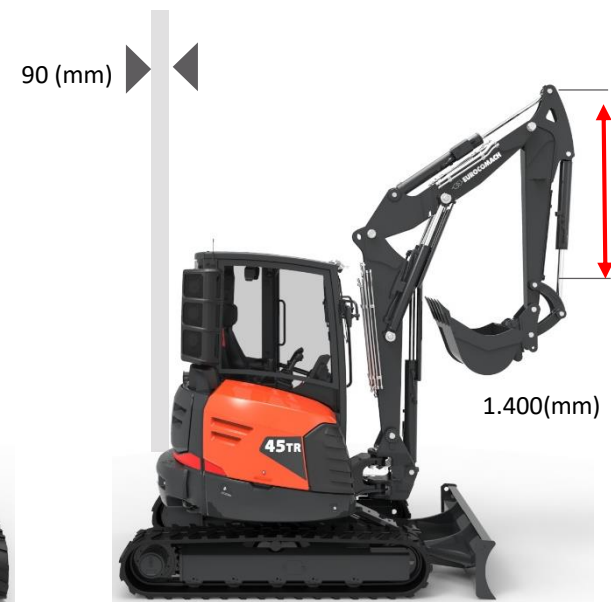


Standard Equipment 42 ZT:

- Identical Undercarriage as 45 TR
- Dipper **1400 mm**



45TR



Standard Equipment 45TR:

- Identical Undercarriage as 42 ZT
- Dipper **1400 mm**
- Additional counter weight **280 Kg**
- Overhang **90 mm**



The 42 ZT and 45 TR models are also available with a canopy



1.4. MODEL OVERVIEW

50 ZT **monobloc boom**

Digging depth: 3.300 mm

Operating weight: 4.800 kg

Maximum Power: 2434cc Turbo - 57.9 HP

Width 1.900mm



55 TR **two pieces boom**

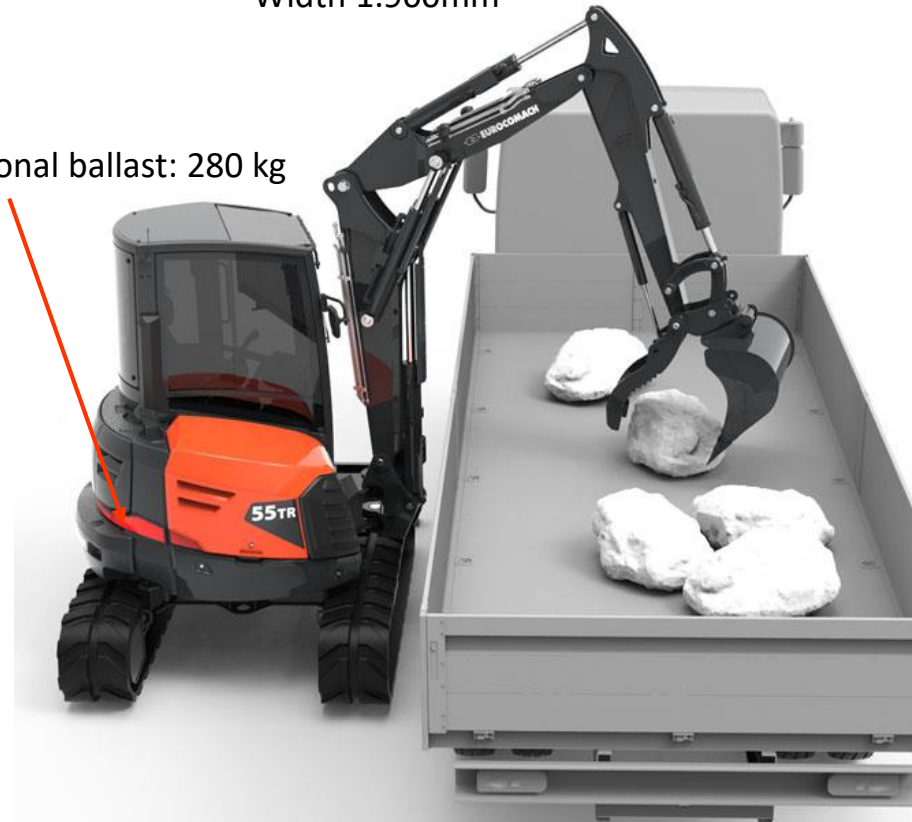
Digging depth: 3.490 mm

Operating weight: 5.250 kg

Maximum Power: 2434cc Turbo - 57.9 HP

Width 1.900mm

additional ballast: 280 kg



50 ZT & 55 TR:

- Both models have been completely redeveloped from the undercarriage (width 1900mm) and Turret. This ton class is intended to offer price-oriented customers or rental parks in the 5 – 6 ton class an economical alternative to the 6 ton class, meeting in the same moment the highest requirements. The **50 ZT zero tail with monobloc boom** and the **55 TR compact tail with two pieces boom**.

50ZT

Weight Cabin

4.800 kg

Turbo Engine Stage V

2403 cc [42,6 KW - 57,9 HP]

LS – EC FLOW SHARE HYDR

129 + 28,8 lt/min

Main boom length

2.645 mm

Dipper length

Standard 1.500 mm

optional 1.750 mm

Dig. depth std. 3.330 mm

Dig. depth opt. 3.580 mm

additional rear weights

optional 280 Kg

or 420 Kg

Control

Joysticks Bosch - Rexroth
Softtouch with multi
proportional control



55TR

Weight Cabin

5.250 kg

Turbo Engine Stage V

2403 cc [42,6 KW - 57,9 HP]

LS – EC FLOW SHARE HYDR

129 + 28,8 lt/min

Main Boom + Positioner

1.720 mm + 1.580 mm

Dipper length

standard 1.500 mm

optional 1.750 mm

Dig. depth std. 3490

Dig. depth opt. 3740

additional rear weights

standard 280 Kg

optional 420 Kg

Control

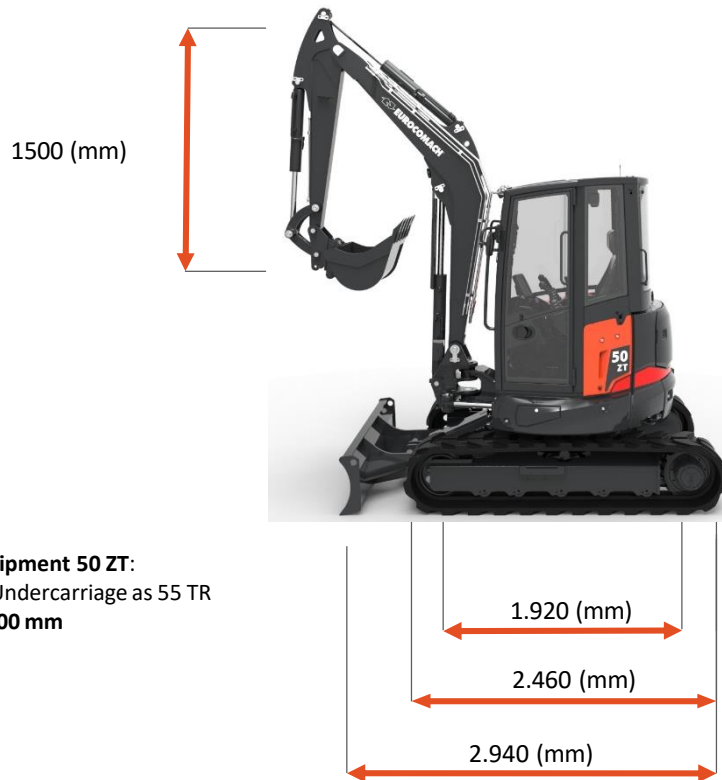
Joysticks Bosch - Rexroth
Softtouch with multi
proportional control



50 ZT & 55 TR

- A new **undercarriage width of 1900 mm** enables the new 50ZT and 55TR models to **traverse even narrower passages**. The proven X profile with sloping side parts and **chain widths of 400 mm** offer **high resistance and stability**. Compared to the 50 ZT, the **55 TR has the additional rear weight installed as standard**.

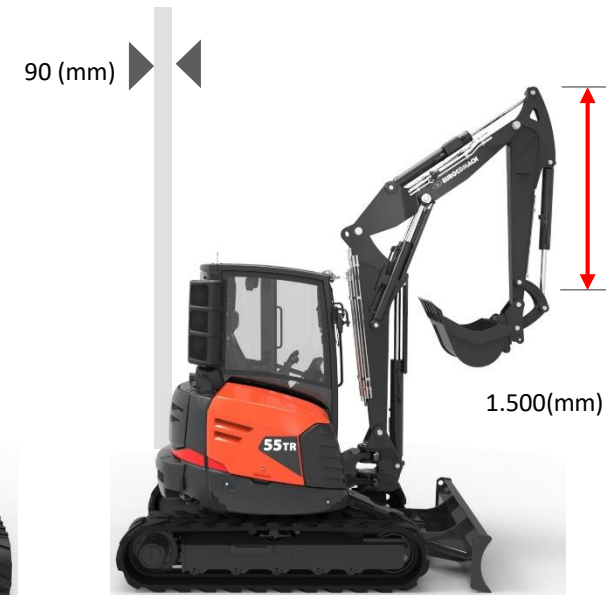
50ZT



Standard Equipment 50 ZT:

- Identical Undercarriage as 55 TR
- Dipper **1500 mm**

55TR



Standard Equipment 45TR:

- Identical undercarriage as 50ZT
- Dipper **1500 mm**
- Additional counter weight **280 Kg**
- Überhang **90 mm**

1.4.1. INTRODUCTION: ZERO TAIL AND ITS ADVANTAGES

- Eurocomach has been designing its ZT models for years under the motto "Zero tail zero problems". 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 Diggers do not overhang at the rear. This facilitates work operations in very confined spaces or in hazardous areas (road traffic but on house walls)
- Allows the operator to focus fully on the work ahead
- Disadvantages such as insufficient stability or working comfort (narrow cabin, engine under the seat and thus noise and heat stress) **can be ruled out with the Eurocomach Zero Tail**
- because on the one hand its **unique space concept with transversal side engine with fan drive offers maximum working comfort**
- and its **undercarriage concept with a lower machine center of gravity**, which results from the slight deviation of the boom from the center of the machine, **offers maximum stability**



1.4. INTRODUCTION: DIFFERENCE TR MODEL TO ZT MODEL



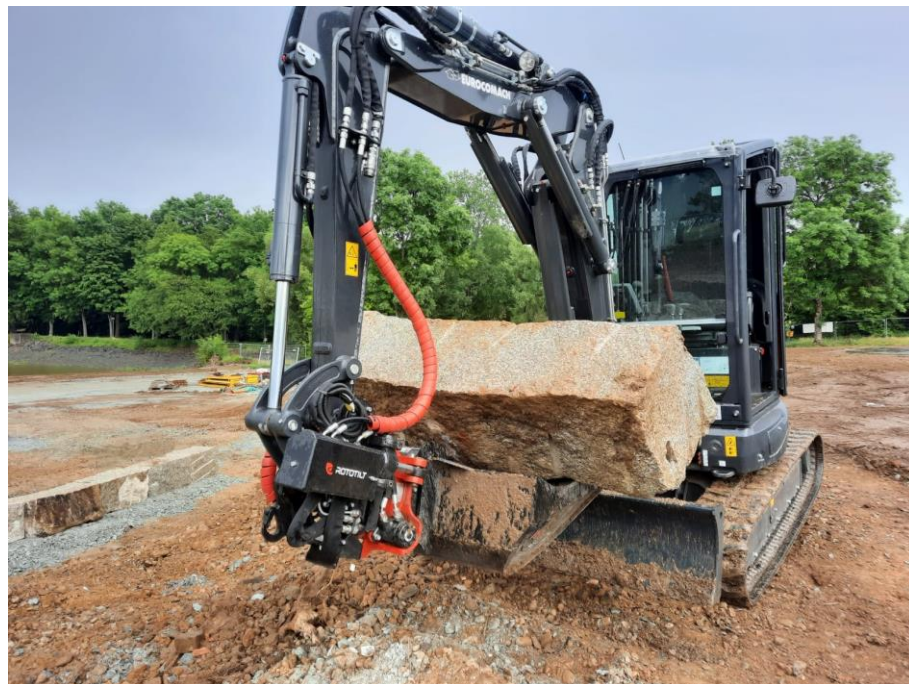
- TR is equipped with the two pieces boom instead of the mono boom, which means more digging depth, reach but also versatility
- TR has the additional rear weight as standard
- Has the blocking valves on the main arm, positioner and dipper cylinder as standard

What are the general advantages of the Two Pieces Boom?

- Above-average lifting power (= one machine category above)
- Even more compact machine, since the front turning circle can be even smaller thanks to the adjustable boom.
- More range in all directions (→ More digging depth, more range and higher loading height)
- More variability: the machine can adapt even better to any job.
- Eurocomach is the only manufacturer in the world that also mass-produces the luffing booms in 4 and 5 tons.



1.4. INTRODUCTION: DIFFERENCE TR MODEL TO ZT MODEL



1.5. OVERVIEW TABLE OF THE MOST IMPORTANT SETUPS

42 ZT	45 TR	50 ZT	55 TR
Multi-proportional control & AUX 1 serial equipment	Multi-proportional control & AUX 1, as well as blocking valves boom (main boom, positioner and dipper) and 280kg additional rear weight as serial equipment	Multi-proportional control & AUX 1 serial equipment	Multi-proportional control & AUX 1, as well as blocking valves boom (main boom, positioner and dipper) and 280kg additional rear weight as serial equipment
Optional: Air conditioning, diesel refueling pump, AUX 2 and AUX 3	Optional: Air conditioning, diesel refueling pump, AUX 2 and AUX 3	Optional: Air conditioning, diesel refueling pump, AUX 2 and AUX 3	Optional: Air conditioning, diesel refueling pump, AUX 2 and AUX 3
Display with liter quantity and working mode setting as serial equipment	Display with liter quantity and working mode setting as serial equipment	Display with liter quantity and working mode setting as serial equipment	Display with liter quantity and working mode setting as serial equipment
Optional: Preparation for hydraulic QC single or double acting	Optional: Preparation for hydraulic QC single or double acting	Optional: Preparation for hydraulic QC single or double acting	Optional: Preparation for hydraulic QC single or double acting
Optional: mulcher hydraulics	Optional: mulcher hydraulics	Optional: mulcher hydraulics	Optional: mulcher hydraulics
Other options: such as rear camera, radio (standard or DAB+), LED bars	Other options: such as rear camera, radio (standard or DAB+), LED bars	Other options: such as rear camera, radio (standard or DAB+), LED bars	Other options: such as rear camera, radio (standard or DAB+), LED bars

Image examples of accessories (Opt.)



Options:

- Rear camera (visualization on Tiera 7 display)
- LED BARS in back

Air Condition (Optional)



Image examples of accessories (Opt.)



Diesel refueling pump with
auto-stop function

Tank hose for diesel fueling
pump with lockable sieve and
collection container

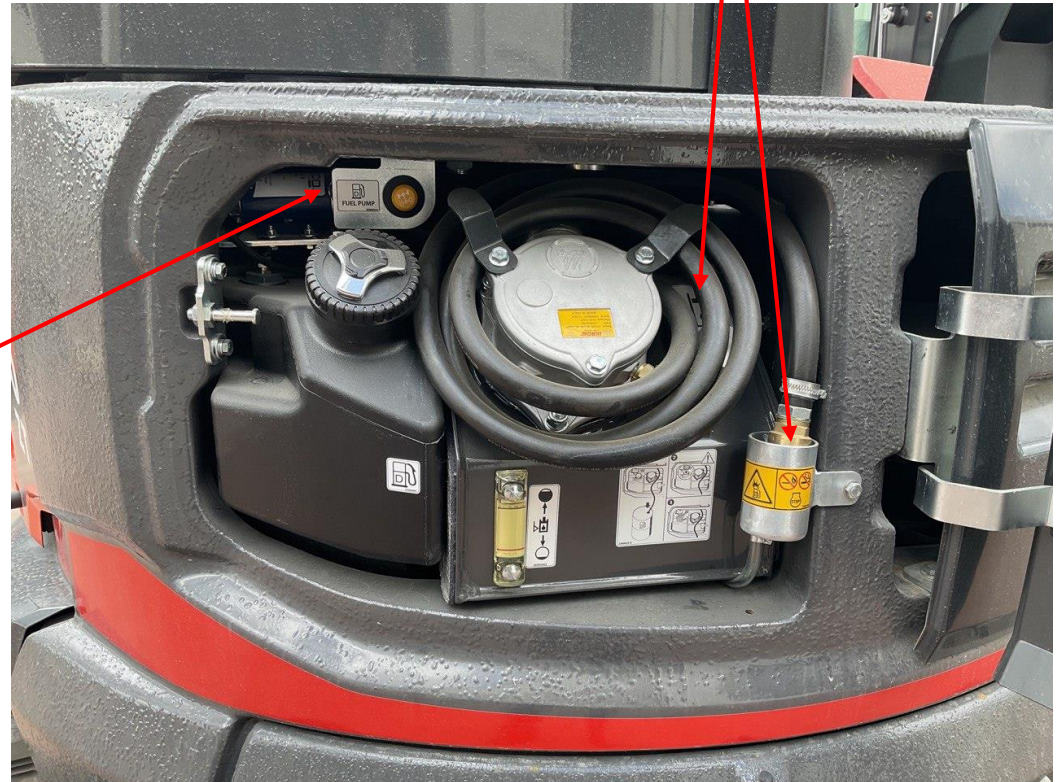


Image examples of accessories (Opt.)

Mulcher TTE 90 R from the
Eurocomach Attachment range

Hydraulic preparation for mulcher consist of :

- additional pump 48 l/min (42 ZT and 45TR) or – 53l/min (50 ZT and 55TR)
- direct drainage line to the oil tank
- and external additional ballast screwed to the standard ballast of 280 kg (for 42 ZT and 50ZT) or 480 kg for 45TR and 55TR)
- **Advantage:** thanks to the additional pump, the mulcher constantly receives its oil. The LS pump performance is therefore fully made available to the machine.
- As a result, the machine **can carry out all other movements (i.e. drive and main arm) even faster and more reactively during mulching**
- and this **generates a larger mowing meter output per hour**, which is particularly important in landscaping and municipal technology.











2. Walk around:



2. Walk around:

2.1. Undercarriage:

Minimum deviation of the boom axis from the center of rotation



machine width:

1750 mm (42 ZT und 45 TR)
1900mm (50 ZT und 55 TR)

- The undercarriages of all four models are of the X type, which ideally distributes the forces over the entire frame.
- **Side parts and X profile are beveled so that the dirt always falls down**
- Despite a compact rear radius (ZT equal to zero rear), they offer infinite stability because the coordination with the superstructure is ideally chosen with a maximized machine center of gravity (the deviation of the arm from the center of the machine is minimal)
- The widths are 1750mm for the 42 ZT and 45TR and 1900mm for the 50 ZT and 55TR
- Chain widths, on the other hand, are 350mm for the 42 ZT and 45TR or 400mm for the 50 ZT or 55 TR



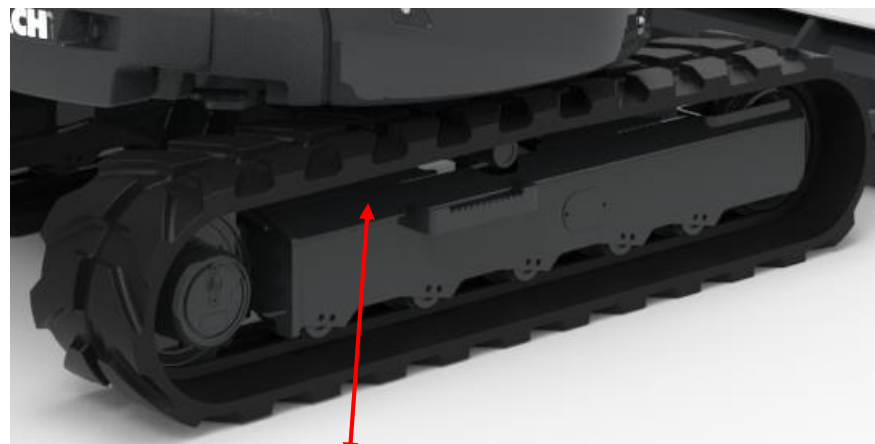
undercarriage length :

2260 mm (42 ZT and 45 TR)
2460 mm (50 ZT and 55 TR)



Chain width:

350 mm (42 ZT and 45 TR)
400 mm (50 ZT and 55 TR)



Beveled side parts and X profile:

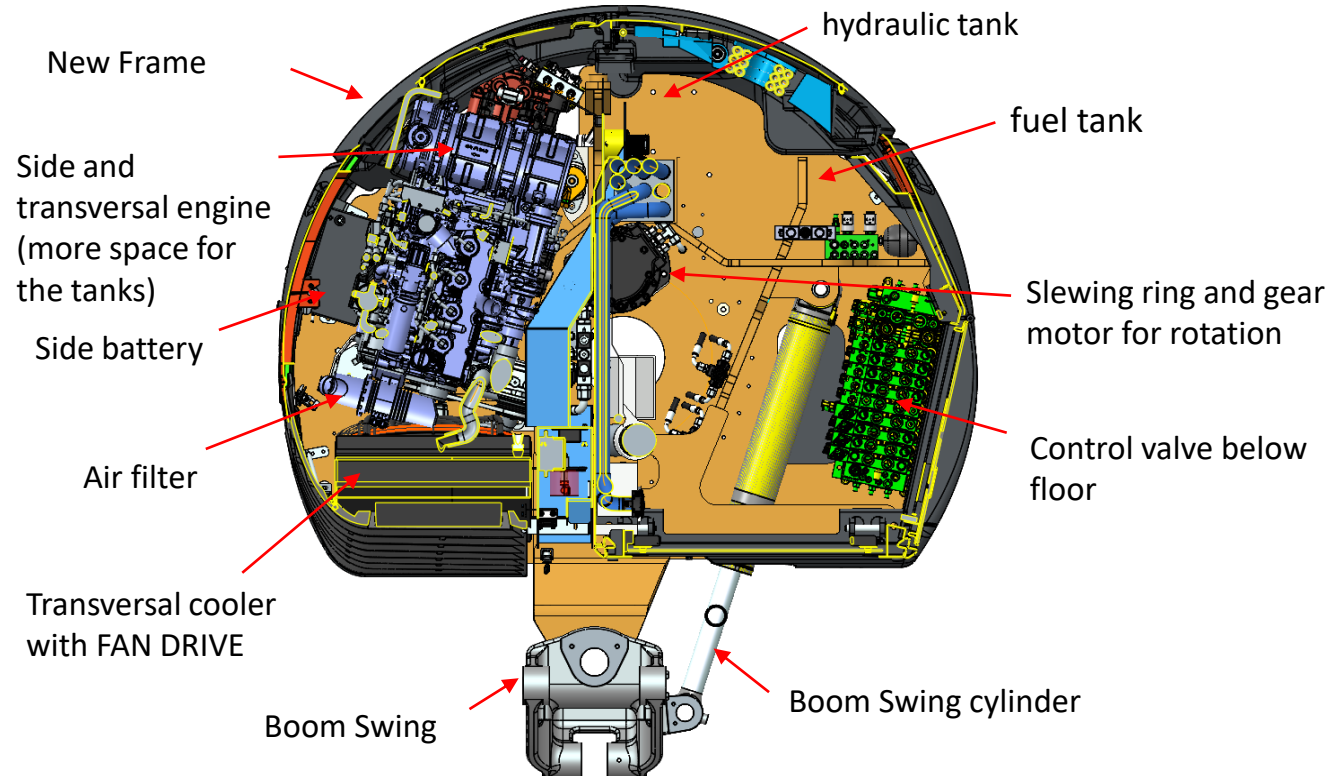
So the material always falls out of the undercarriage

2.2. Unique machine concept turret:



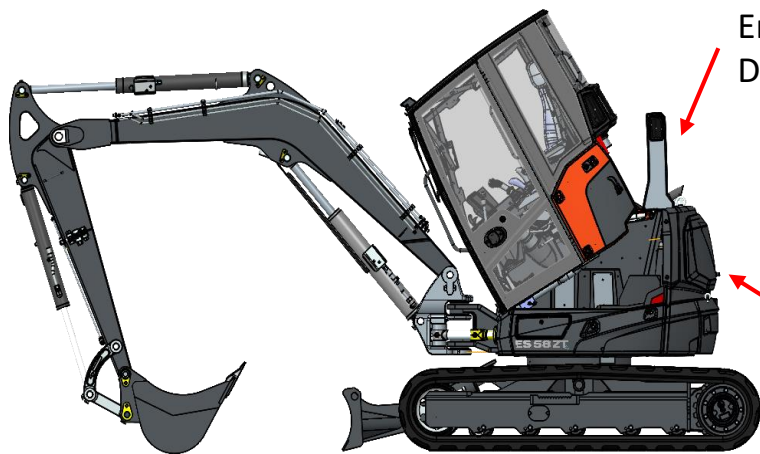
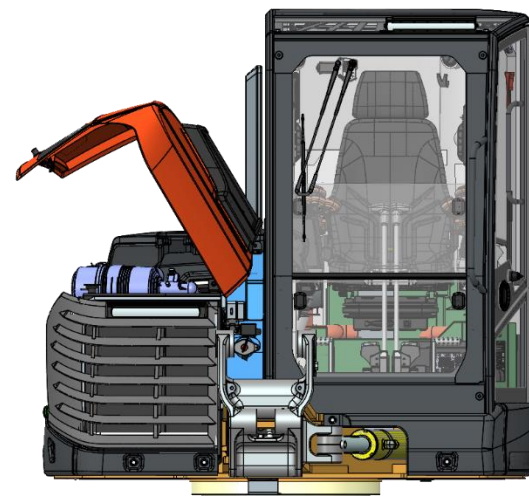
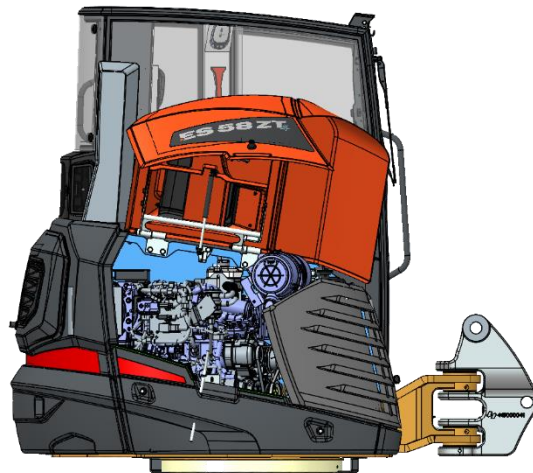
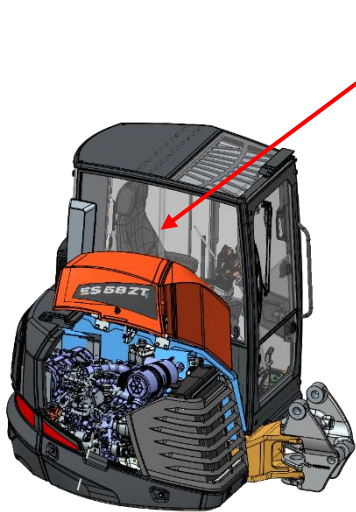
Unique space concept: based on the concepts of the 58 ZT – 60 ZT and 65 TR models

- Transversely mounted side engine separated from the cab maximizes side and rear space (→ wide cab with plenty of foot room)
- Because the engine is mounted on the side and separated from the cabin, there is less noise and heat in the cabin
- A new type of fan drive cooling system with hydraulic control increases the cooling capacity, but also reduces the outside and inside noise.



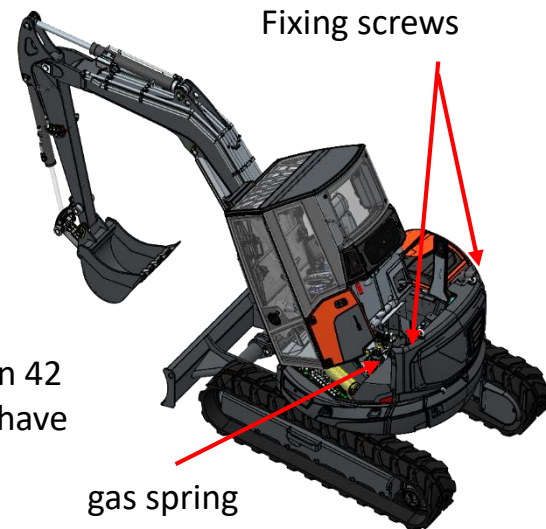
Unique space concept: based on the concepts of the 58 ZT – 60 ZT and 65 TR models

- the lateral mounting of the engine not only improves the cabin comfort but also significantly improves the accessibility for maintenance
- This is completed by the tailgate and the foldable cab → **Extremely easy to maintain**



Engine Air Intake Far Up -
Draws in cleaner air

Tailgate opens sideways on 42
ZT-55TR but rear weights have
large openings

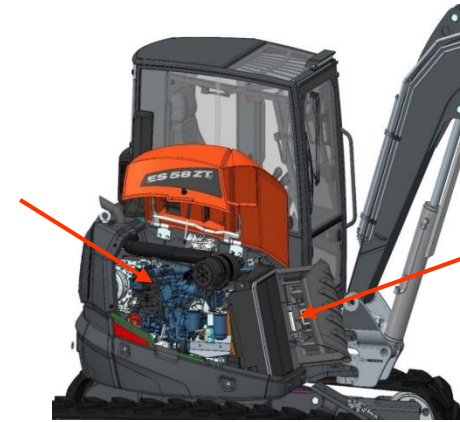


Fixing screws

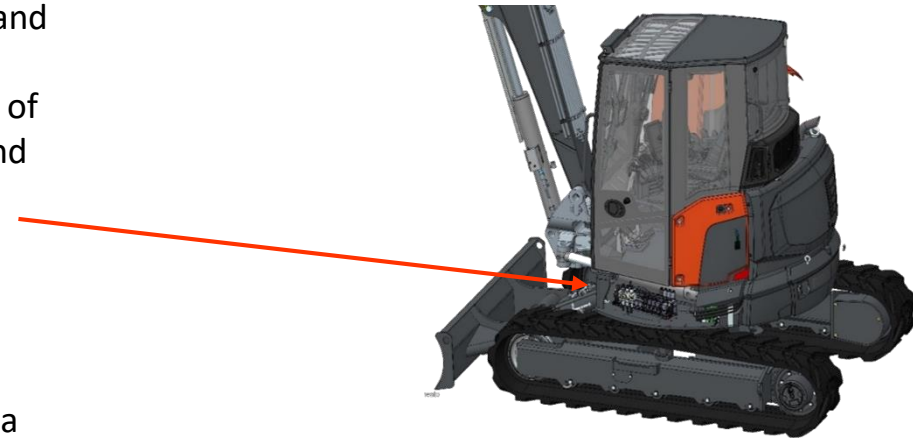
gas spring

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

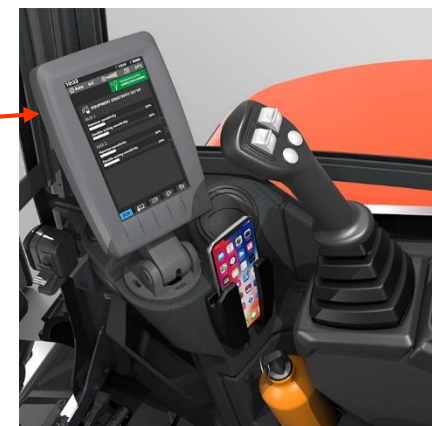
- A **turbo engine Stage V - Tier IV** with integrated particle filter (Kubota 1800cc - 43.9 HP with 42 ZT & 45TR or 2400 cc - 57.9 HP with 50 ZT & 55TR) gives above-average performance and thus also working comfort
- A **fan drive cooling system** with hydraulic control inversion and different work cycles adapts ideally to the work to be completed and thus optimizes the cooling and performance of the machine but also reduces unnecessary external noise and thus increases working comfort
- A **load-sensing hydraulic system with 11 elements** enables several simultaneous movements and the activation of a number of additional circuits 4 - 5 electro-hydraulic proportionally controlled commands AUX1 (AUX 2, AUX 3 optional), the machine can therefore be used universally as a multi-implement carrier
- A **load-sensing Pump, now with electronic control**, makes the machine even more reactive. The electrical control allows the pump and motor performance curves to be variably adapted to the work to be carried out or the movements. In addition, different working modes (ECO-STD-PWR) can be selected, in which the machine can adapt perfectly to the type of work. This also increases working comfort and performance at the same time.



FAN DRIVE –
Viskolüfter Kühlsystem
(mit automatischer
Invertierung)



2.3. Comfort workplace – cushioned and separated from the rest of the machine :



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

Scrollboard

Armrests adjustable in height:

Using a display and scrollboard:

1. Setting liter quantities and sensitivity of AUX1 and Swing or OPT TR, AUX 2, 3 etc.
2. Working mode setting (ECO - Standard - Power)
3. Autoidle time interval setting 1-5 seconds
4. Particle filter management and diagnostics

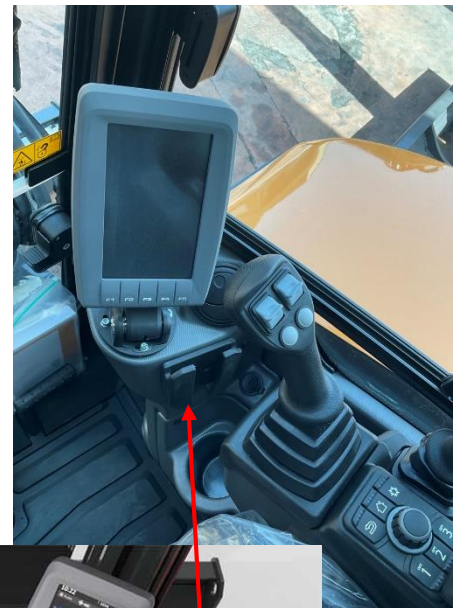
2.3. Comfort workplace:



Height
adjustment
armrests



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

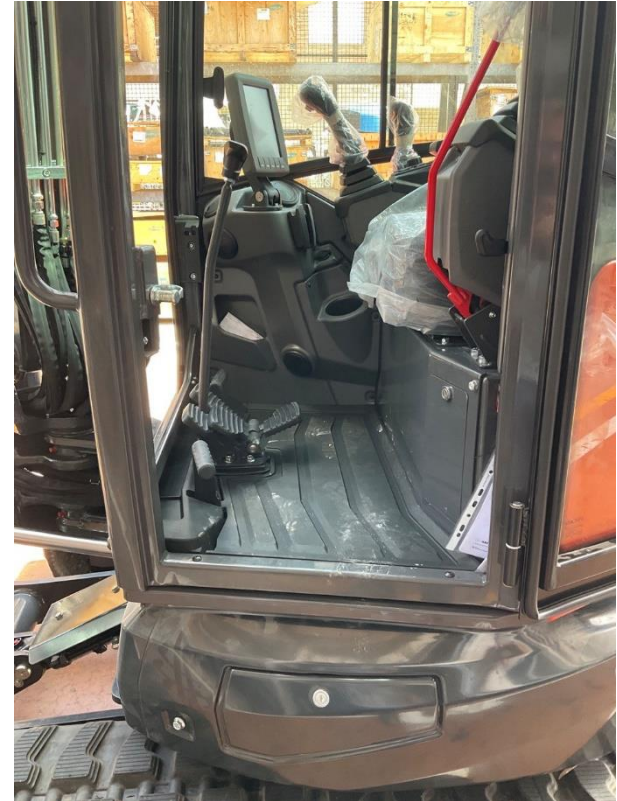


Height adjustment armrests

2.3.1. Comfort workplace: Wide entrance



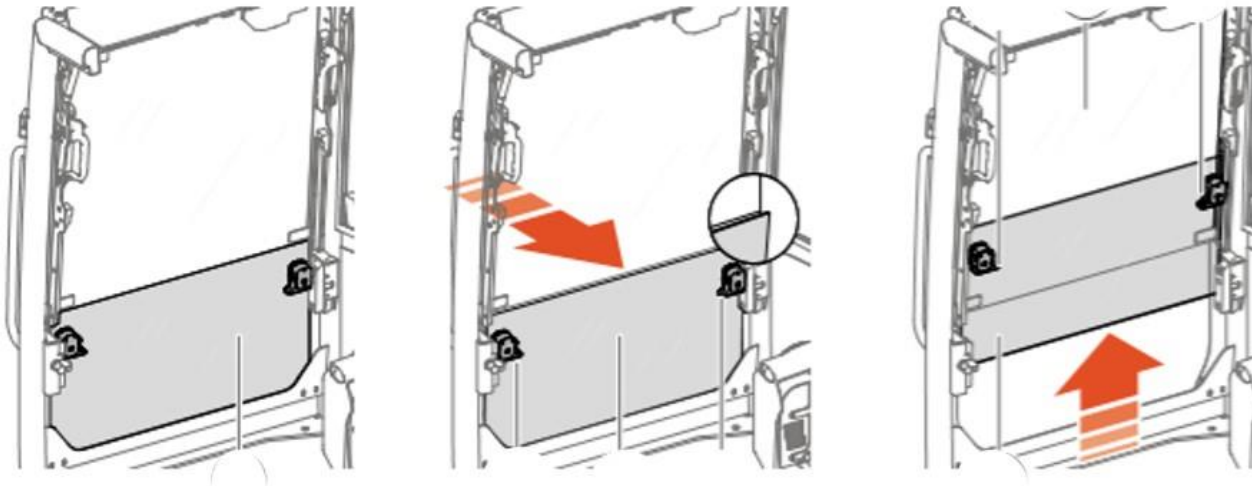
Lots of leg room and a large entrance





NEW: LOWER WINDSCREEN CAN BE STORED INTO UPPER WINDSCREEN

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



NEW: LOWER WINDSCREEN CAN BE STORED INTO UPPER WINDSCREEN

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



2.4. Control & auxiliary circuits:

- All machines have a **soft-touch joystick with multi-proportional control (3x right and 2x left)** with a number of switch switches already provided
- All machines now has the **electrical switchover from AUX 1** (hammer or swivel bucket hydraulics as standard) in the cabin
- All machines can optionally be equipped with a **second and third additional circuit AUX 2 or AUX 3 (ideal for pivoting and rotating movements)** can be equipped with a preparation for the hydraulic QC
- All models can have the mulcher hydraulics, in which an additional pump is installed.
- All electro-proportional controls can be regulated via the 7-inch display, both in terms of the amount of liters and the sensitivity together with the scroll wheel.
- All machines can have an overload warning device and various types of hydraulic preparations for hydraulic quick couplers





- Display TIERA 7: with liter quantity setting of all proportional switches in addition to AUX1,2,3 also articulated arm, adjustable boom optional, autoidle, particle filter and work mode management
- Cell phone and bottle holder
- Scroll wheel and control panel for display operation (detailed see appendix)

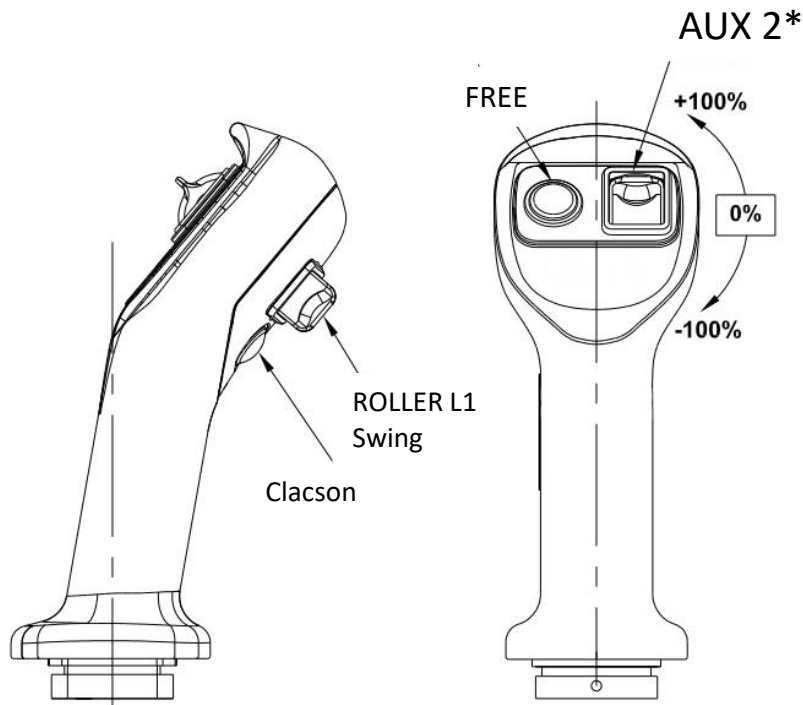


H button: electric switching AUX 1 now new was not available in the previous series



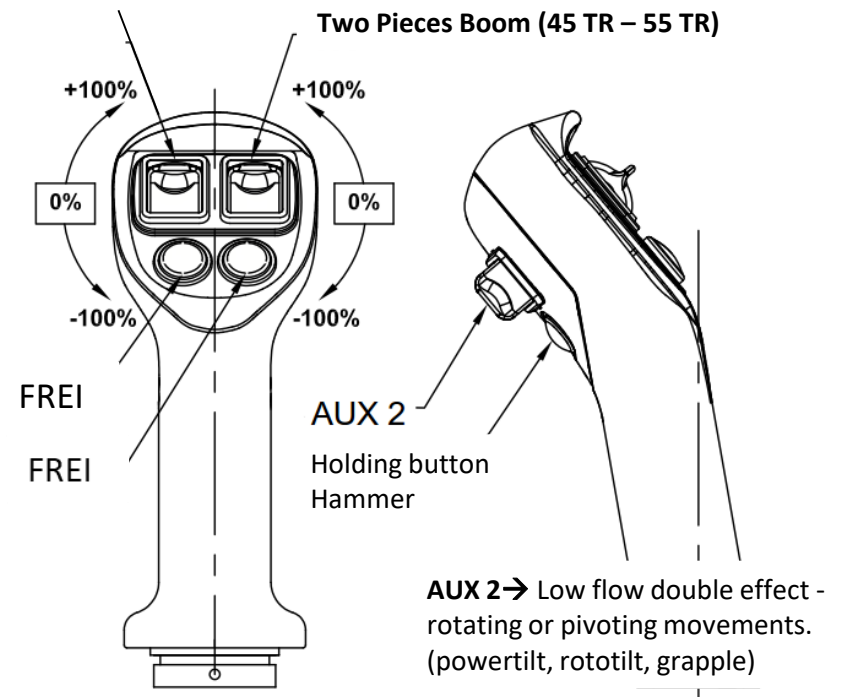
JOYSTICKS REXROTH (SOFT TOUCH) WITH AUX 2 OPTIONAL

JOYSTICK LEFT



JOYSTICK RIGHT

AUX 1 → High flow (single and double effect/hammer, open grapple, mulcher and planner)



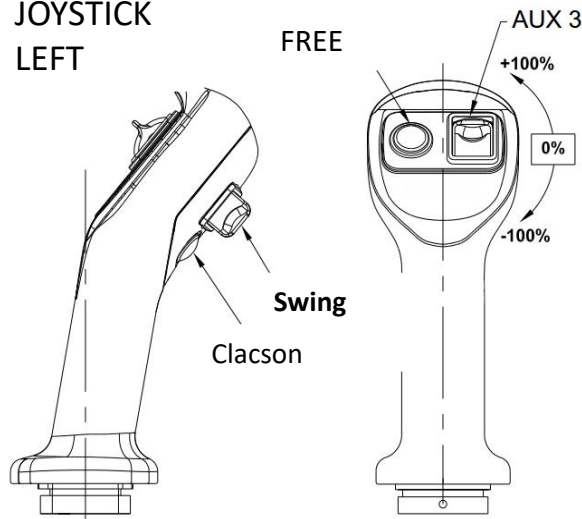
New button D side board : AUX2 on right joystick can be switched to left joystick (when active then AUX2 works on left joystick)

JOYSTICKS REXROTH (SOFT TOUCH) WITH AUX 2 AND AUX 3 / OPTIONAL

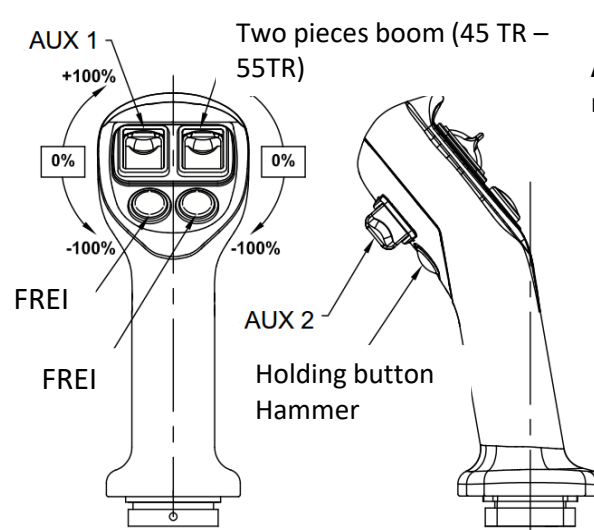
AUX 3 → Low flow double effect - rotating or tilt movements. (Powertilt, Rototilt, Grapple)

AUX 1 → High flow (single and double effect/hammer, open grapple, mulcher and planner)

JOYSTICK LEFT



JOYSTICK RIGHT



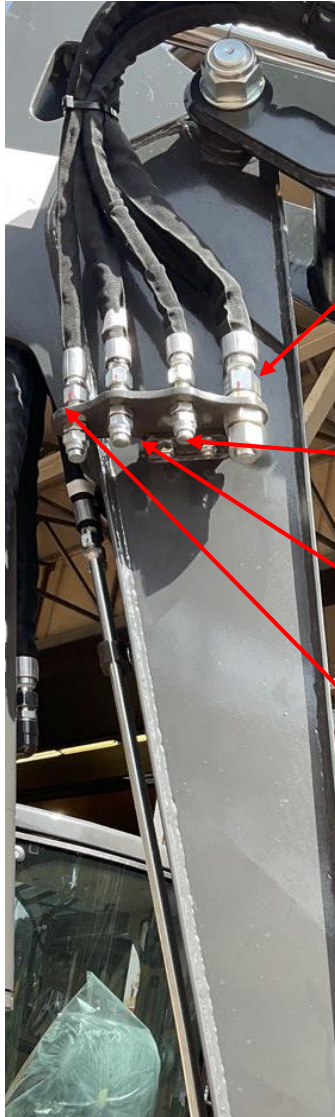
AUX 2 → Low flow double effect - rotating or tilt movements. (Powertilt, Rototilt, Grapple)

Advantage: It is no longer necessary to switch between two pieces boom and AUX 2!!! The slider that is moved first is active!!

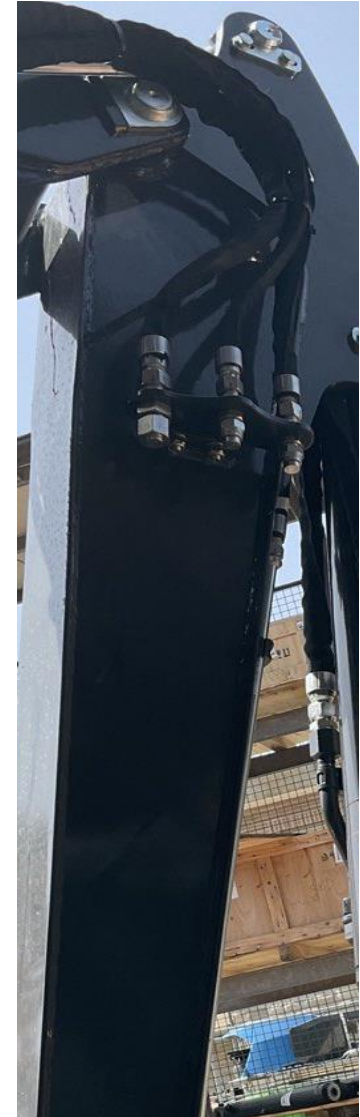
New button D : Inversion AUX2 with AUX3 (when active then AUX2 works on left joystick and AUX3 on right joystick)



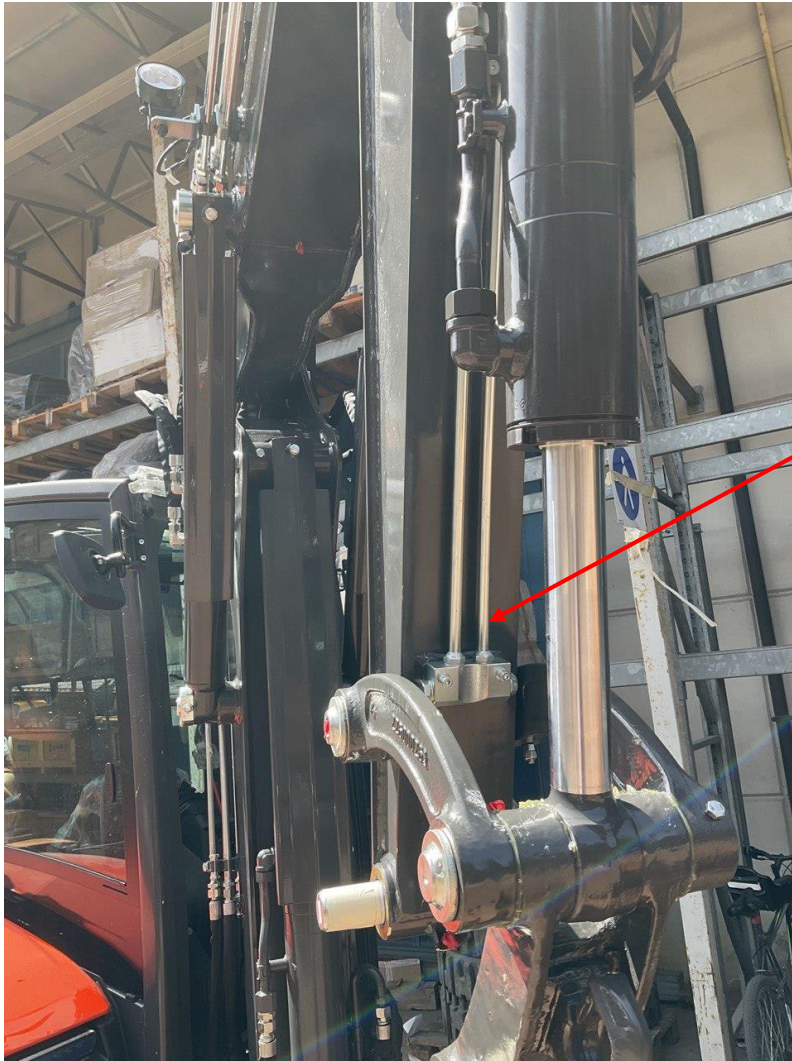
2.3.1 HYDRAULIC CIRCUITS AUX 2 and AUX3



- AUX 1 hydraulic circuit with single and double effect (ideal for hammer or auger) Single effect with high flow (80 Lt/min at constant 200 bar) ideal for tillers and mulchers with electric switching
 - Hydraulic circuit AUX 2 with low flow pan and rotate movements
 - Hydraulic circuit AUX 3 (optional) with low flow swing and rotation movements Drain line (Optional)
- drainline (Optional)



2.3.2. Preparations Hydraulic quick coupler (OPT.)



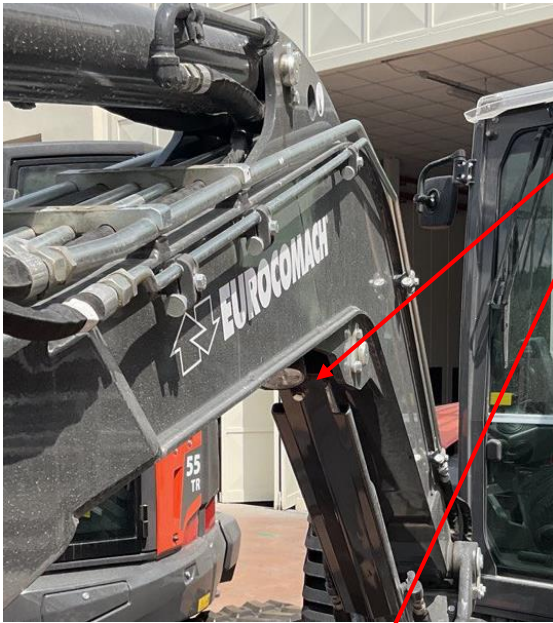
Eurocomach has three different preparations for hydraulic quick couplers:

- **Single-acting preparation** for hydraulic QC with **single pressure adjustment** (one line)
- **Double-acting preparation** for hydraulic QC **with one pressure setting** (two lines as in the figure on the left → Both lines can only be set to one pressure i.e. hydraulic QC should use the same pressure when opening and closing)
- **Double-acting preparation** for hydraulic QC **with double pressure setting** (two lines as in the figure 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 the factory offer.

2.5. lighting options (OPT.)

The 42 ZT – 45 TR – 50 ZT and 55 TR models are :

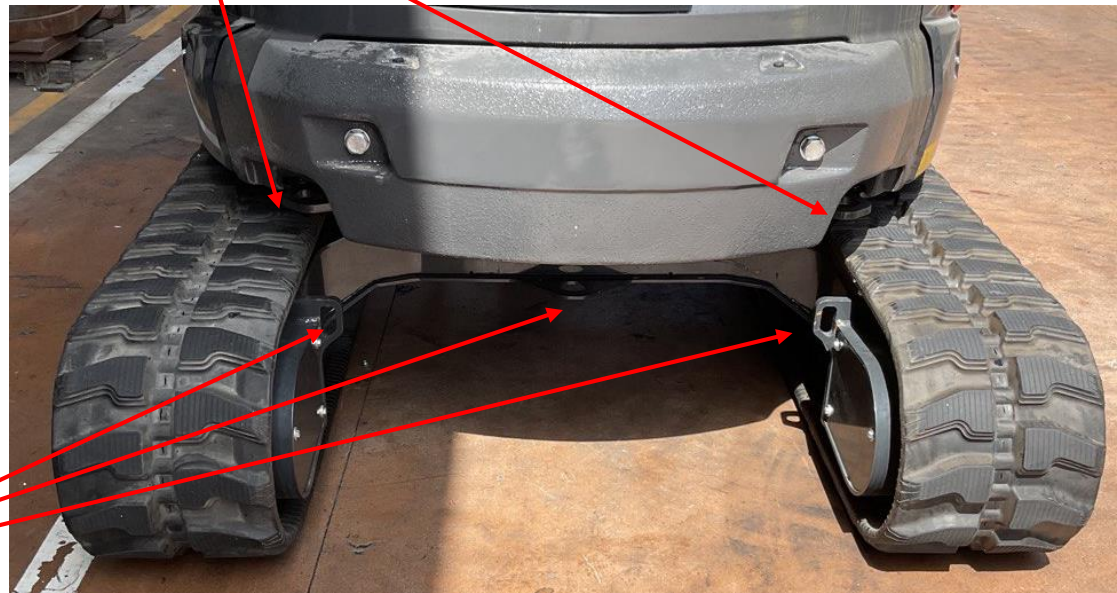
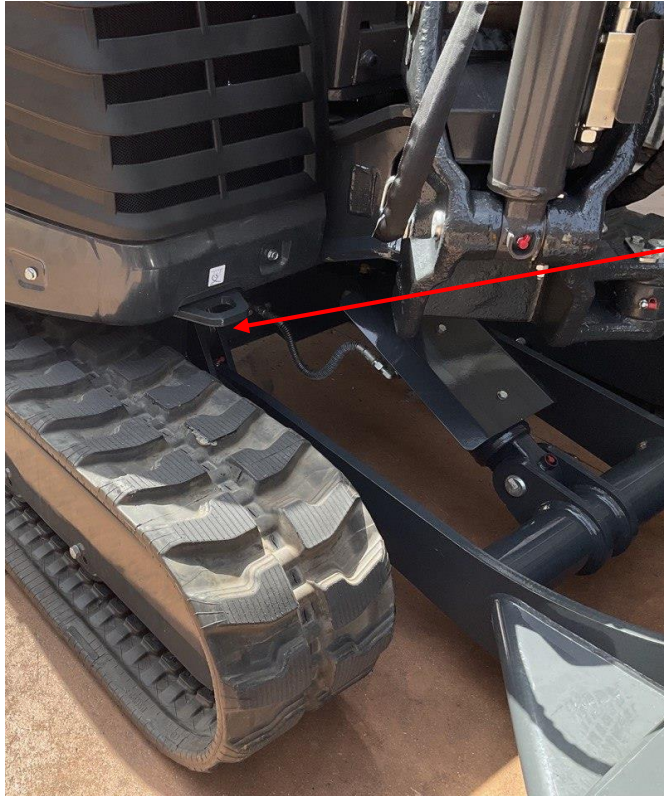
- Are serial equipped with LED work lights in the boom
- Are serial equipped with one LED bar on the front of the hood above the opening of the radiator
- **Optionally, a kit of THREE LED BAR (1x front and 2x rear) is available (in Fig. Front with the Plexiglas canopy option)**
- 60 watts per bar - 5400 lumens excellent visibility up to 25 meters



2.6. Transport fixing security and road safety

Transport fixing security on trucks but also on trailers is always the focus of traffic controls. It turns out more and more frequently that the existing brackets in the undercarriage are often too flat from the fixing angle. (<45 degrees) - The models 42ZT – 45 TR – 50 ZT and 55 TR therefore are serial equipped with:

- **fastening eyelets** in the undercarriage
- And also have **four fixing eyelets** in the turret. Two in front and two in back.



- **fastening eyelets** in the undercarriage

2.7. Stability and additional weights :

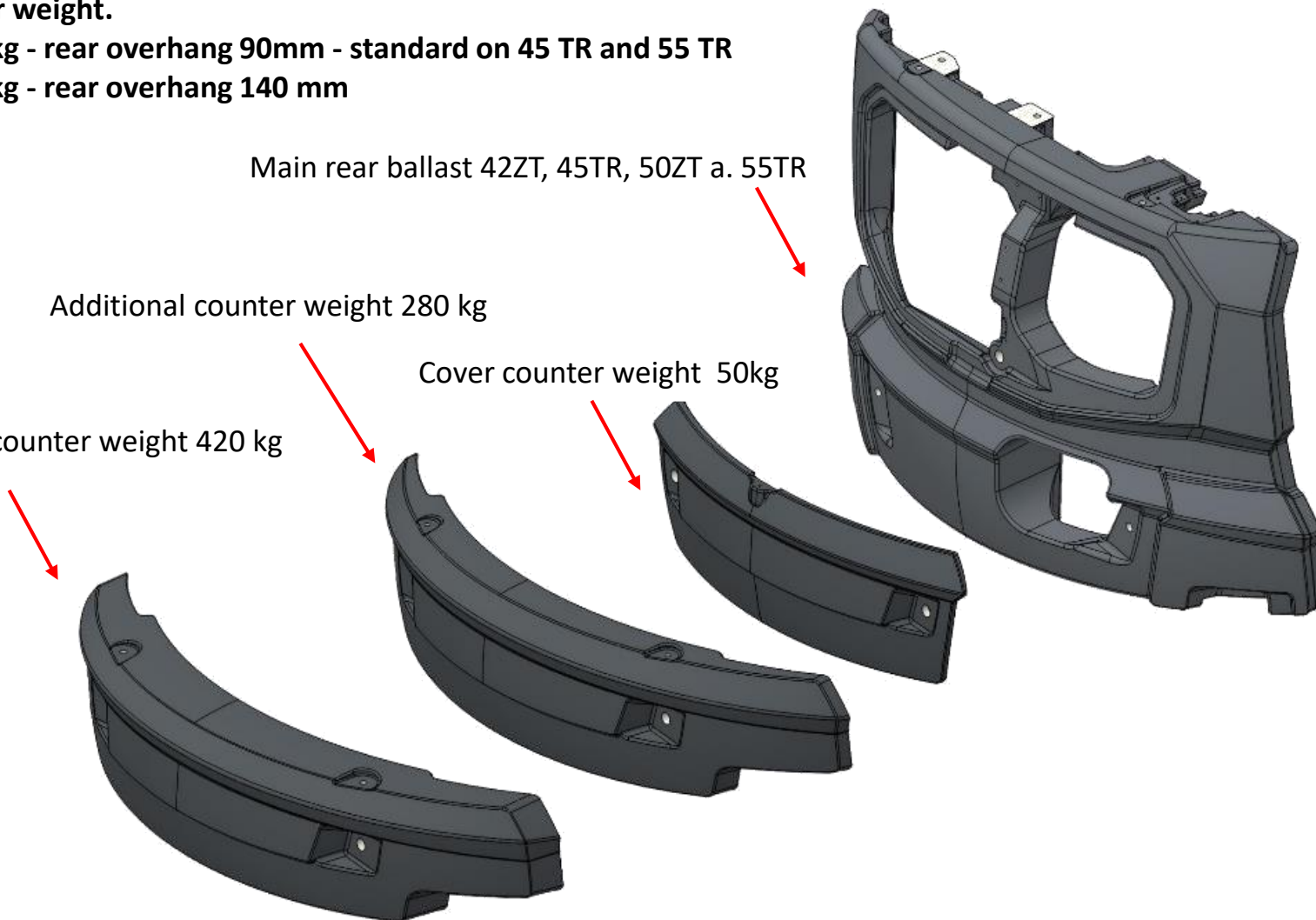
- In order to increase stability, for example when using a long stick or a swivel motor, there **is the option of installing two different additional rear weights** on the models 42ZT, 45 TR, 50 ZT and 55 TR instead **of the 50 kg cover weight**.
- **280 kg** - rear overhang 90mm - standard on 45 TR and 55 TR
- **420 kg** - rear overhang 140 mm

Main rear ballast 42ZT, 45TR, 50ZT a. 55TR

Additional counter weight 280 kg

Cover counter weight 50kg

Additional counter weight 420 kg





Cover counter weight 50kg

Additional counter weight 280 kg



Additional counter weight 420 kg

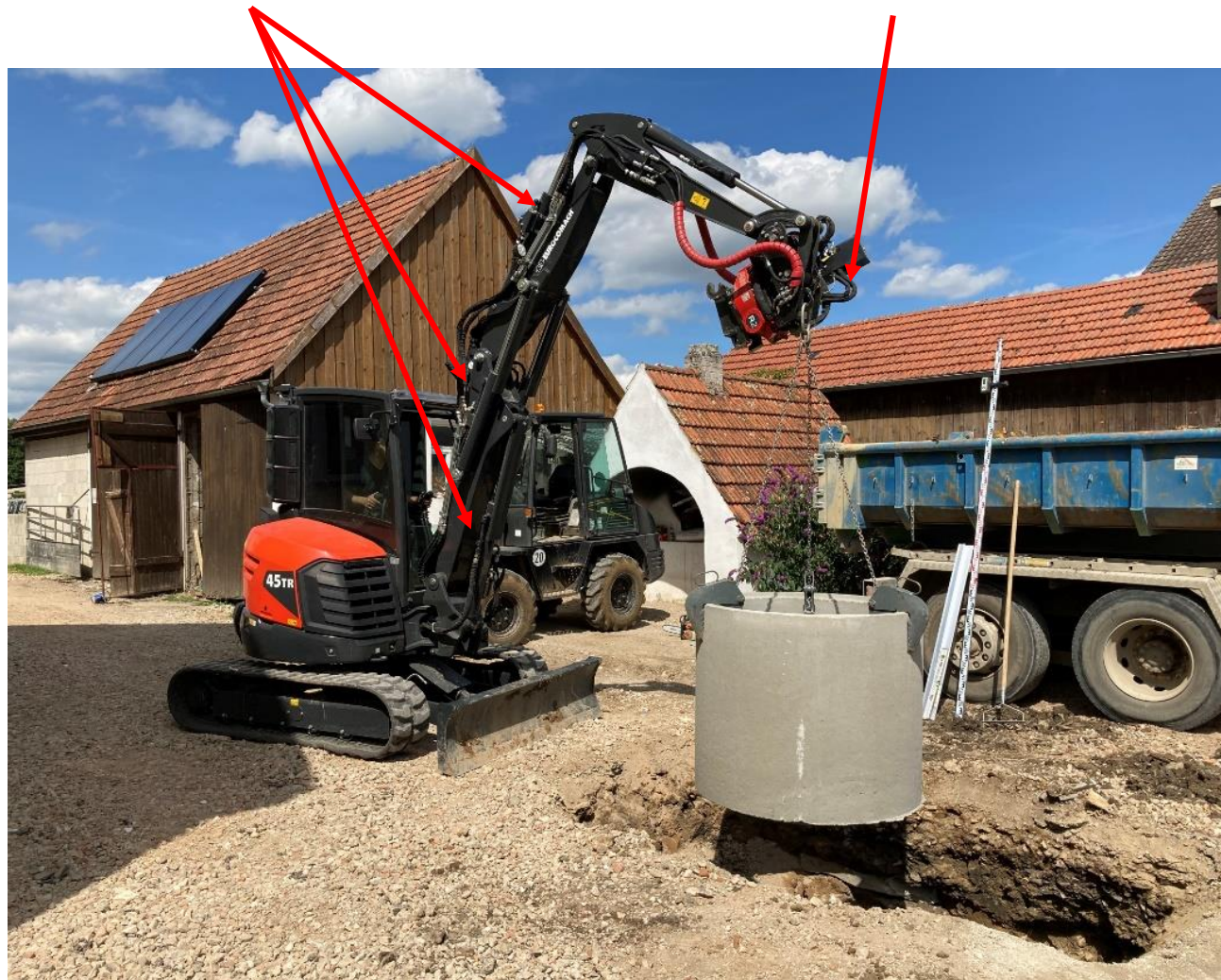


2.8. Material movement safety:

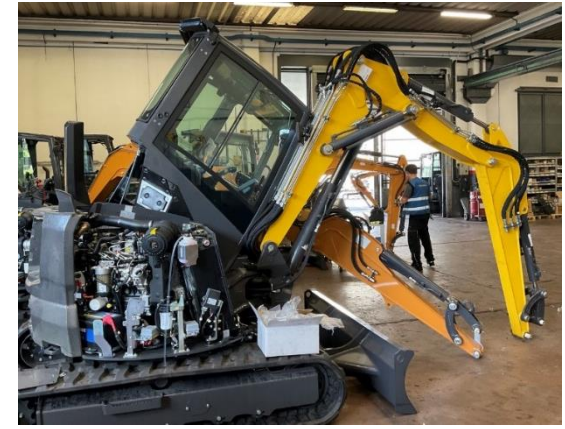
- As soon as an excavator is used to move material, safety comes first
- Eurocomach offers the optional kit „ CE certified lifting hook on the rod, with blocking valves on main boom and dipper stick cylinder (on 45 TR and 55 TR blocking valves on positioner, main boom and stick are series) with a CE certified overload warning device “

Blocking valves (standard in 45 TR and 55TR)

Lifting hook on the rod
(Approved and certified)



2.9. Maintenance comfort:



- Thanks to the large side hoods and the tailgate with integrated access openings in the rear weight, everyday maintenance work can be carried out easily.
- All side panels can be easily removed with just a few screws.
- The cabin and canopy can be folded down on all the models mentioned. This allows easy access to the main hydraulic components.

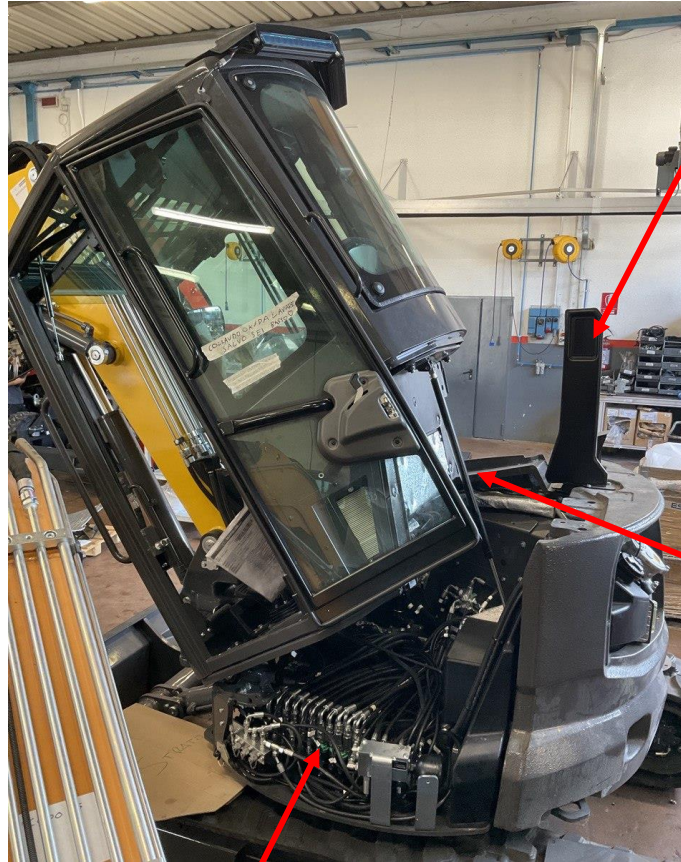
Maintenance Comfort: hoods and side engine concept



Opening the three covers gives access to all the main elements of the daily maintenance machine:

- air filter, fuel filter
- Battery, alternator, compressor, injection pump, cooler,
- Oil and fuel tanks (shown with optional diesel refueling pump and optional air conditioning)

2.9.1. Maintenance comfort: Folding cabin - side panels and rear weight



Engine air intake

Access to
hydraulic and
diesel tank

Access to the engine from
behind (particulate filter = DPF)

Gas spring



Access to LS pump

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

- Hydraulics and control valve (under the cab and on the side under the cover)
- LS pump (under cover weight weight)
- Particulate filter (under right upper rear cover)

Access to hydraulics and control valve

3.1. Technical Data – 42 ZT

Transport weight with canopy (without bucket and operator)	kg	4.050
Transport weight with cabin (without bucket and operator)	kg	4.200
Operating weight ISO 6016 with canopy (with bucket 75 kg and operator 75 kg)	kg	4.200
Operating weight ISO 6016 with cabin (with bucket 75 kg and operator 75 kg)	kg	4.350
Travelling speed (AUTO TWO SPEED)	km/h	1a : 0 ÷ 2,6 / 2a : 0 ÷ 4,5
Slew speed	rpm	10,5

ENGINE

Type	KUBOTA D1803-CR-T - STAGE 5	
Max. Power (2.300 rpm)	kW - HP	32,3 - 43,9
Displacement	cc	1.826
Number of cylinders	n°	3
Cooling	Liquid	
Consumption	lt/h	5,4
Alternator	V (A)	12 (70)
Battery	V (Ah)	12 (75)

HYDRAULIC SYSTEM

Circuit Type	Load Sensing closed center system with "Flow Sharing" control valve	
Pump type	1 LS hydraulic variable pump with electronic control + 1 gear pump	
Pump displacement	cc	53,7 + 11,2
Pump capacity	lt/min	107 + 22,3
Max. circuit calibration pressure	bar	280
Auxiliary systems (max pressure): AUX 1 single or double effect with priority AUX 2 double effect (optional)	lt/min (bar)	60 (200) 60/43 (280)

PERFORMANCES

Max. digging depth with standard arm (optional arm)	mm	3.085 (3.335)
Max. dumping height with standard arm (optional arm)	mm	3.660 (3.820)
Bucket breaking force (standard arm) ISO 6015	daN	4.300
Arm breaking force (standard arm) ISO 6015	daN	2.200
Traction force	daN	4.260
Specific ground pressure	kg/cm ²	0,31
Max. slope	60% - 30°	

DIMENSIONS

Maximum width	mm	1.750
Total height	mm	2.510
Rear rotation radius	mm	875
Digging arm length std (optional)	mm	1.400 (1.650)
Tracks width	mm	350
Rollers number (for each side)	n°	5/1

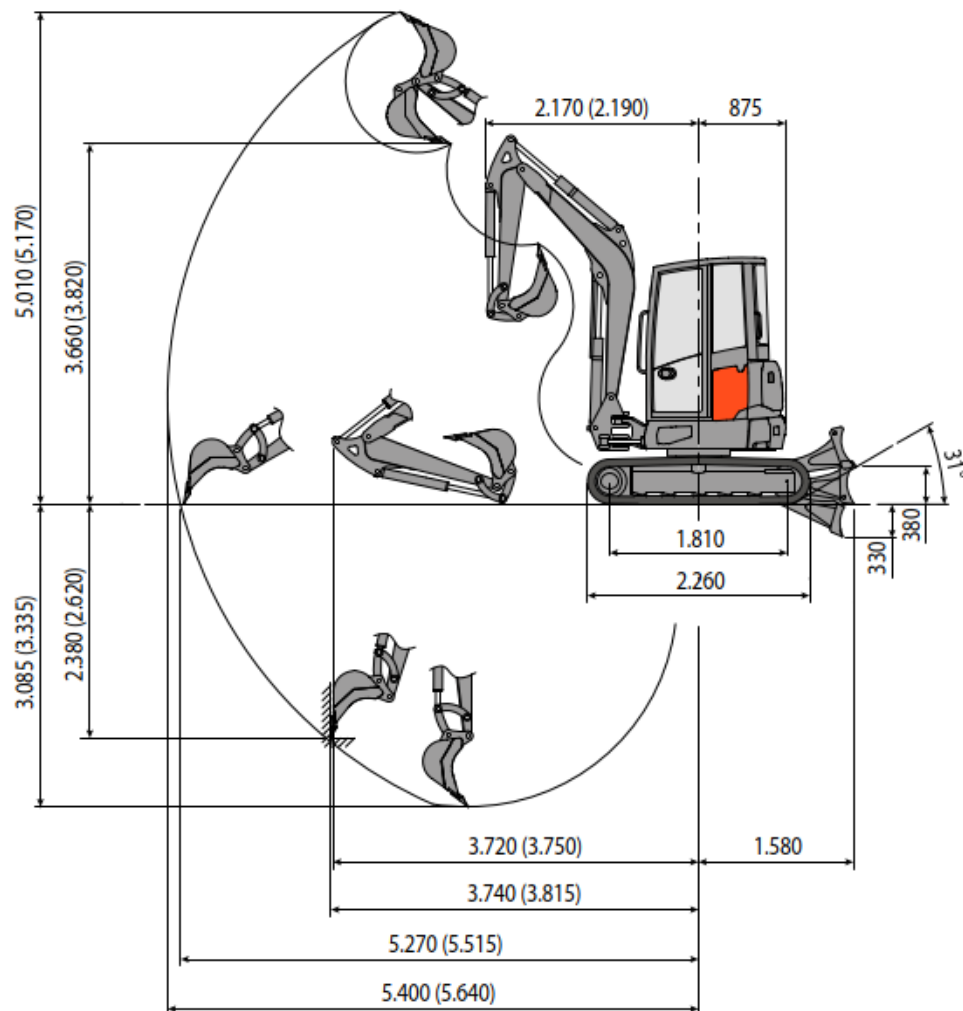
FILLINGS

Fuel tank	lt	60
Hydraulic oil tank	lt	50
Hydraulic circuit capacity	lt	65
Cooling system capacity	lt	9
Engine oil	lt	7

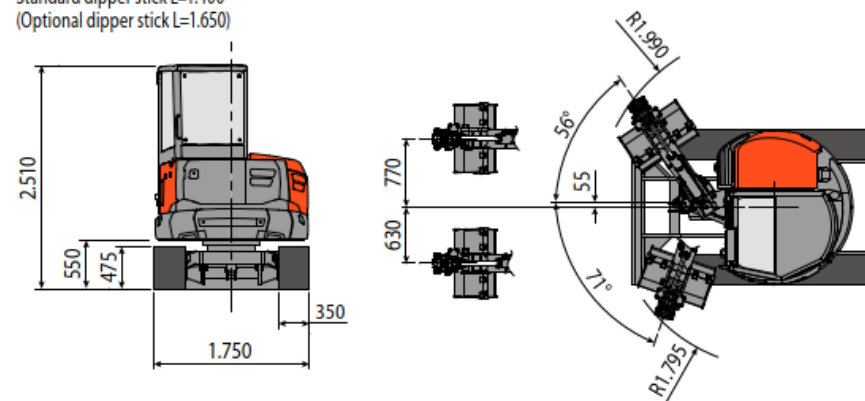
CONTROLS

Boom, dipper stick, bucket and turret swing	2 pilot joysticks
Tracks movement (included counter rotation)	2 pilot levers
Dozer blade	pilot lever
Priority auxiliary system with holding function AUX 1 (single or double effect)	electroproportional switch on right joystick
Auxiliary system AUX 2 (double effect)	electroproportional switch on right joystick
Boom swing	electroproportional switch on left joystick

3.1. Technical Data – 42 ZT



Standard dipper stick L=1.400
(Optional dipper stick L=1.650)



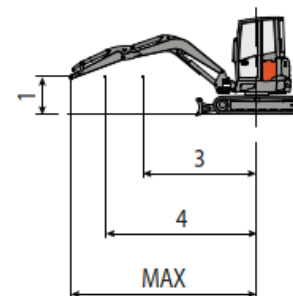
LIFTING CAPACITY

Opening arm from the rotation's center (m)
Lifting capacity (kg) at 1.0 m height

	3	4	MAX
Frontal and lowered dozer blade	*1.620	*1.150	*1.030
Frontal and lifted dozer blade	1.010	660	530
Lateral	720	480	390

* 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 – 45 TR

Transport weight with canopy (without bucket and operator)	kg	4.450
Transport weight with cabin (without bucket and operator)	kg	4.600
Operating weight ISO 6016 with canopy (with bucket 75 kg and operator 75 kg)	kg	4.600
Operating weight ISO 6016 with cabin (with bucket 75 kg and operator 75 kg)	kg	4.750
Travelling speed (AUTO TWO SPEED)	km/h	1a : 0 ÷ 2,6 / 2a : 0 ÷ 4,5
Slew speed	rpm	10,5

ENGINE

Type	KUBOTA D1803-CR-T - STAGE 5	
Max. Power (2.300 rpm)	kW - HP	32,3 - 43,9
Displacement	cc	1.826
Number of cylinders	n°	3
Cooling	Liquid	
Consumption	lt/h	5,4
Alternator	V (A)	12 (70)
Battery	V (Ah)	12 (75)

HYDRAULIC SYSTEM

Circuit Type	Load Sensing closed center system with "Flow Sharing" control valve	
Pump type	1 LS hydraulic variable pump with electronic control + 1 gear pump	
Pump displacement	cc	53,7 + 11,2
Pump capacity	lt/min	107 + 22,3
Max. circuit calibration pressure	bar	280
Auxiliary systems (max pressure): AUX 1 single or double effect with priority AUX 2 double effect (optional)	lt/min (bar)	60 (200) 60/43 (280)

PERFORMANCES

Max. digging depth with standard arm (optional arm)	mm	3.230 (3.480)
Max. dumping height with standard arm (optional arm)	mm	4.620 (4.860)
Bucket breaking force (standard arm) ISO 6015	daN	4.300
Arm breaking force (standard arm) ISO 6015	daN	2.200
Traction force	daN	4.260
Specific ground pressure	kg/cm²	0,34
Max. slope	60% - 30°	

DIMENSIONS

Maximum width	mm	1.750
Total height	mm	2.510
Rear rotation radius	mm	965
Digging arm length std (optional)	mm	1.400 (1.650)
Tracks width	mm	350
Rollers number (for each side)	n°	5/1

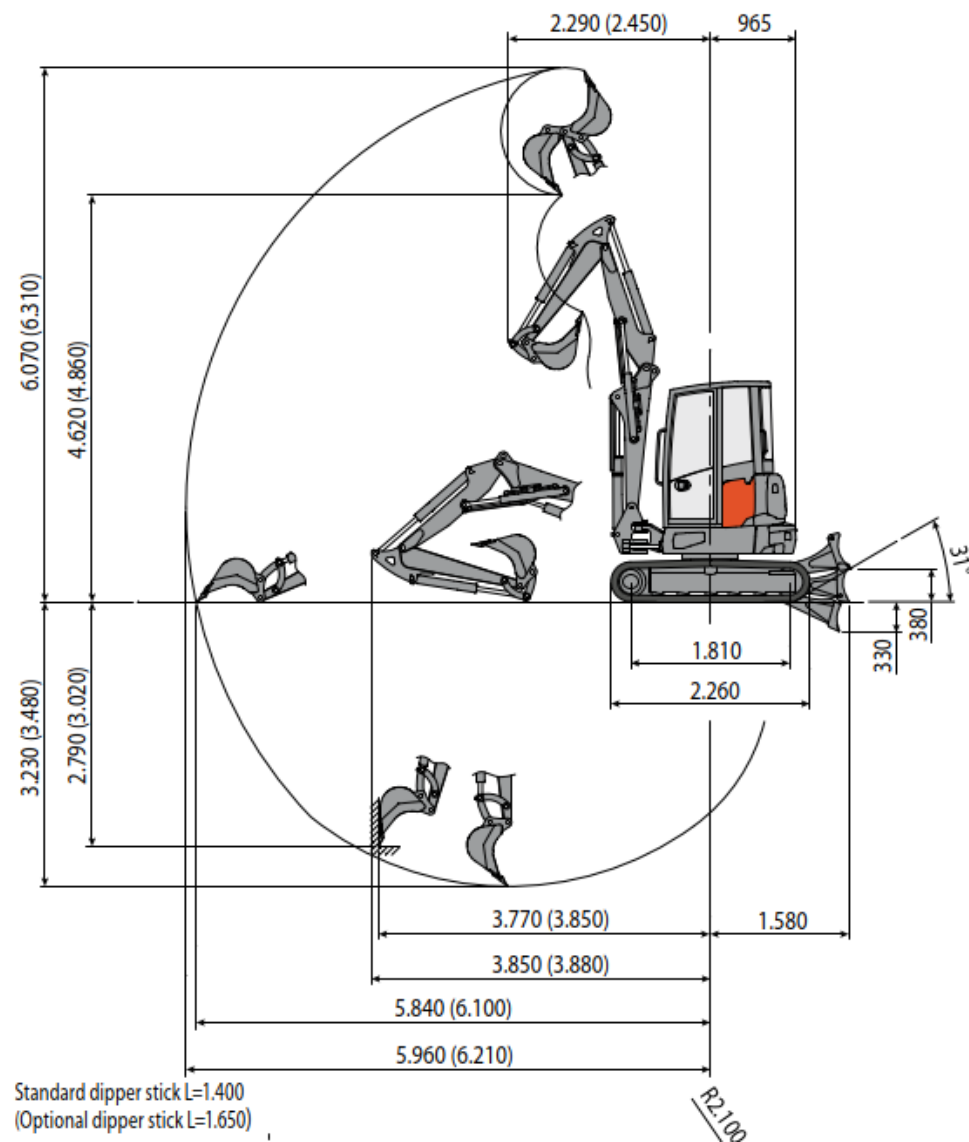
FILLINGS

Fuel tank	lt	60
Hydraulic oil tank	lt	50
Hydraulic circuit capacity	lt	65
Cooling system capacity	lt	9
Engine oil	lt	7

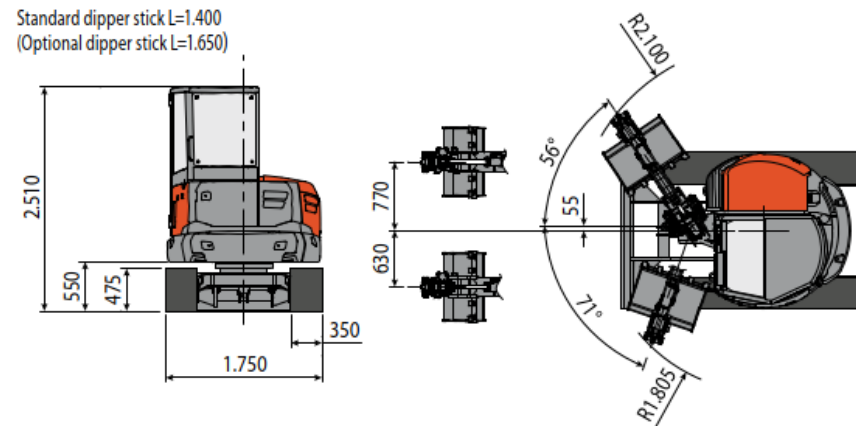
CONTROLS

Boom, dipper stick, bucket and turret swing	2 pilot joysticks
Positioner two pieces boom	electroproportional switch on right joystick
Tracks movement (included counter rotation)	2 pilot levers
Dozer blade	pilot lever
Priority auxiliary system with holding function AUX 1 (single or double effect)	electroproportional switch on right joystick
Auxiliary system AUX 2 (double effect)	electroproportional switch on right joystick
Boom swing	electroproportional switch on left joystick

3.2. Technical Data – 45 TR



Standard dipper stick L=1.400
(Optional dipper stick L=1.650)



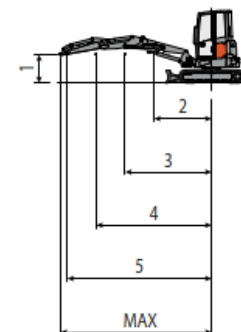
LIFTING CAPACITY

Opening arm from the rotation's center (m)
Lifting capacity (kg) at 1.0 m height

	2	3	4	5	MAX
Frontal and lowered dozer blade	*2.220	*1.170	*1.040	*930	*860
Frontal and lifted dozer blade	*2.220	*1.170	770	520	480
Lateral	1.580	870	560	370	340

* 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 – 50 ZT

Operating weight with cabin (with rubber tracks)	kg	4.800
Travelling speed (AUTO TWO SPEED)	km/h	1a : 0 ÷ 2,6 / 2a : 0 ÷ 4,5
Slew speed	rpm	10,5

ENGINE

Type	KUBOTA V2403-CR-T - STAGE 5	
Max. Power (2.300 rpm)	kW - HP	42,6 - 57,9
Displacement	cc	2.434
Number of cylinders	n°	4
Cooling	Liquid	
Consumption	lt/h	6,9
Alternator	V (A)	12 (60)
Battery	V (Ah)	12 (95)

HYDRAULIC SYSTEM

Circuit Type	Load Sensing closed center system with "Flow Sharing" control valve	
Pump type	1 LS hydraulic variable pump with electronic control + 1 gear pump	
Pump displacement	cc	65 + 14,5
Pump capacity	lt/min	129 + 28,8
Max. circuit calibration pressure	bar	280
Auxiliary systems (max pressure): AUX 1 single or double effect with priority AUX 2 double effect (optional)	lt/min (bar)	70 (200) 40/30 (280)

PERFORMANCES

Max. digging depth with standard arm (optional arm)	mm	3.330 (3.580)
Max. dumping height with standard arm (optional arm)	mm	3.920 (4.080)
Bucket breaking force (standard arm) ISO 6015	daN	4.300
Arm breaking force (standard arm) ISO 6015	daN	2.350
Traction force	daN	5.420
Ground bearing pressure with rubber tracks and cabine	kg/cm²	0,28
Max. slope	60% - 30°	

DIMENSIONS

Maximum width	mm	1.900
Total height	mm	2.570
Rear rotation radius	mm	950
Digging arm length std (optional)	mm	1.500 (1.750)
Tracks width	mm	400
Rollers number (for each side)	n°	5/1

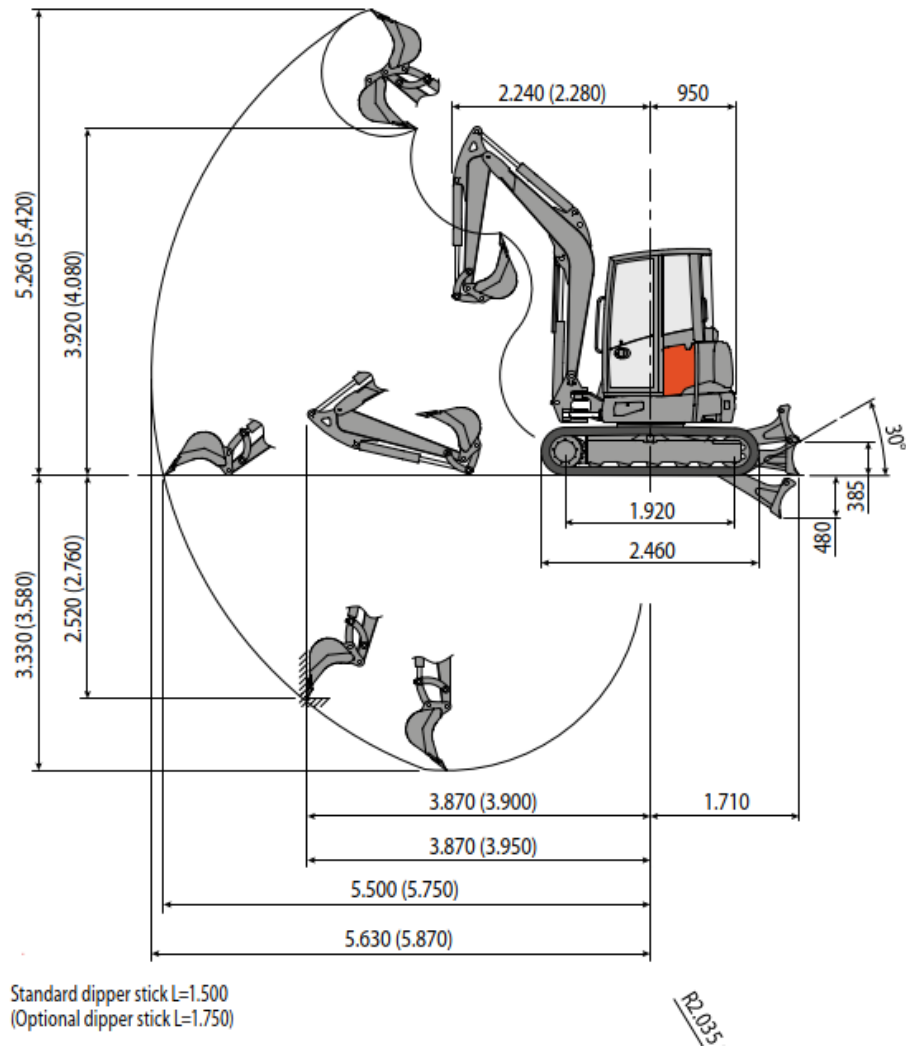
FILLINGS

Fuel tank	lt	75
Hydraulic oil tank	lt	65
Hydraulic circuit capacity	lt	85
Cooling system capacity	lt	11
Engine oil	lt	9,5

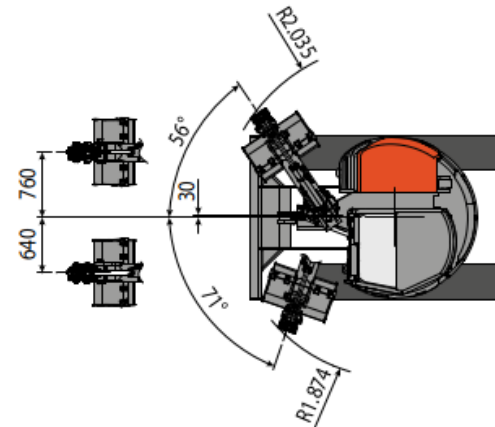
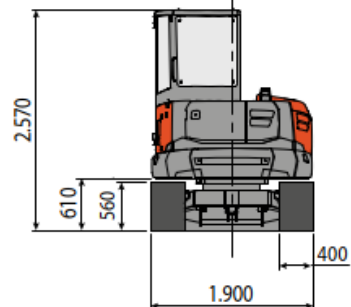
CONTROLS

Boom, dipper stick, bucket and turret swing	2 pilot joysticks
Tracks movement (included counter rotation)	2 pilot levers
Dozer blade	pilot lever
Priority auxiliary system with holding function AUX 1 (single or double effect)	electroproportional switch on right joystick
Auxiliary system AUX 2 (double effect)	electroproportional switch on right joystick
Boom swing	electroproportional switch on left joystick

3.3. Technical Data – 50 ZT



Standard dipper stick $L=1.500$
(Optional dipper stick $L=1.750$)

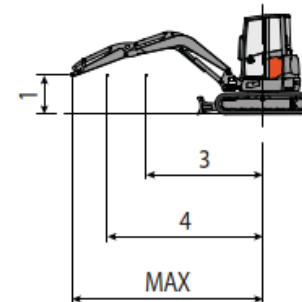


LIFTING CAPACITY

Opening arm from the rotation's center (m)
Lifting capacity (kg) at 1.0 m height

	3	4	MAX
Frontal and lowered dozer blade	*1.830	*1.280	*1.090
Frontal and lifted dozer blade	1.260	820	610
Lateral	930	620	460

* 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.

3.4. Technical Data – 55 TR

Transport weight with cabin (without bucket and operator)	kg	5.250
Operating weight ISO 6016 with cabin (with bucket 75 kg and operator 75 kg)	kg	5.400
Travelling speed (AUTO TWO SPEED)	km/h	1a : 0 ÷ 2,6 / 2a : 0 ÷ 4,5
Slew speed	rpm	10,5

ENGINE

Type	KUBOTA V2403-CR-T - STAGE 5	
Max. Power (2.300 rpm)	kW - HP	42,6 - 57,9
Displacement	cc	2.434
Number of cylinders	n°	4
Cooling	Liquid	
Consumption	lt/h	6,9
Alternator	V (A)	12 (70)
Battery	V (Ah)	12 (100)

HYDRAULIC SYSTEM

Circuit Type	Load Sensing closed center system with "Flow Sharing" control valve	
Pump type	1 LS hydraulic variable pump with electronic control + 1 gear pump	
Pump displacement	cc	65 + 14,5
Pump capacity	lt/min	129 + 28,8
Max. circuit calibration pressure	bar	280
Auxiliary systems (max pressure): AUX 1 single or double effect with priority AUX 2 double effect (optional)	lt/min (bar)	70 (200) 60/43 (280)

PERFORMANCES

Max. digging depth with standard arm (optional arm)	mm	3.490 (3.740)
Max. dumping height with standard arm (optional arm)	mm	5.030 (5.270)
Bucket breaking force (standard arm) ISO 6015	daN	4.300
Arm breaking force (standard arm) ISO 6015	daN	2.350
Traction force	daN	5.420
Specific ground pressure	kg/cm²	0,31
Max. slope	60% - 30°	

DIMENSIONS

Maximum width	mm	1.900
Total height	mm	2.570
Rear rotation radius	mm	1.040
Digging arm length std (optional)	mm	1.500 (1.750)
Tracks width	mm	400
Rollers number (for each side)	n°	5/1

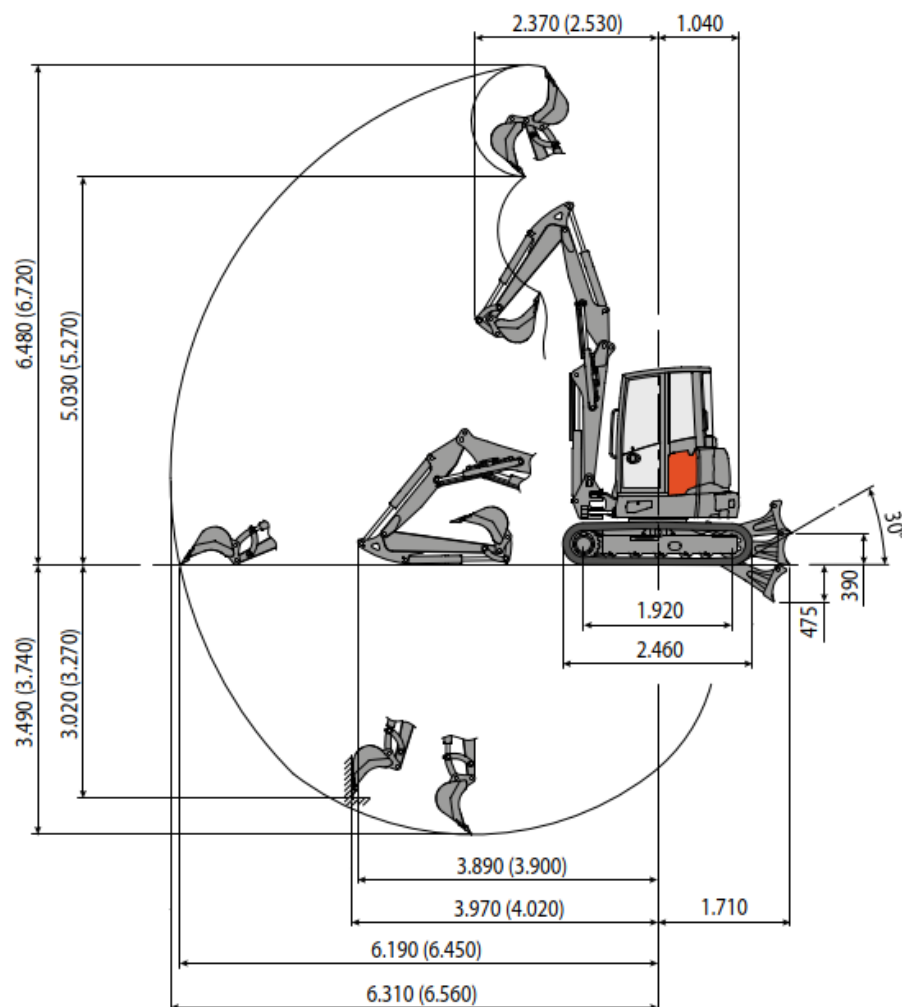
FILLINGS

Fuel tank	lt	75
Hydraulic oil tank	lt	65
Hydraulic circuit capacity	lt	85
Cooling system capacity	lt	11
Engine oil	lt	9,5

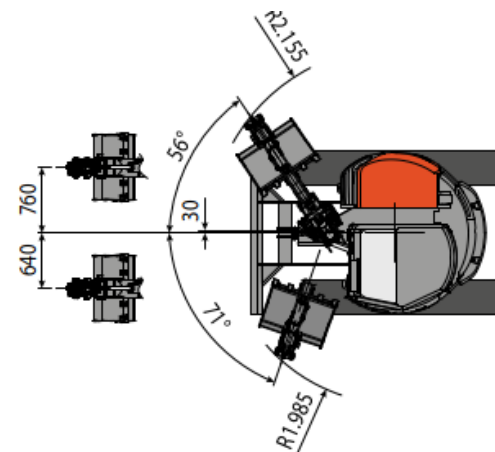
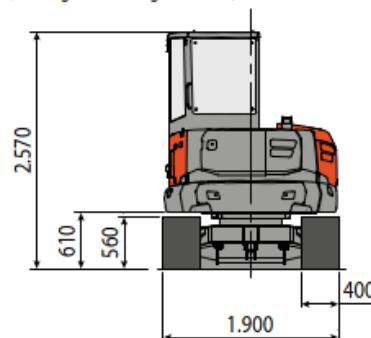
CONTROLS

Boom, dipper stick, bucket and turret swing	2 pilot joysticks
Positioner two pieces boom	electroproportional switch on right joystick
Tracks movement (included counter rotation)	2 pilot levers
Dozer blade	pilot lever
Priority auxiliary system with holding function AUX 1 (single or double effect)	electroproportional switch on right joystick
Auxiliary system AUX 2 (double effect)	electroproportional switch on right joystick
Boom swing	electroproportional switch on left joystick

3.4. Technical Data – 55 TR



Standard Ausleger L=1.500
(Verlängerter Ausleger L=1.750)



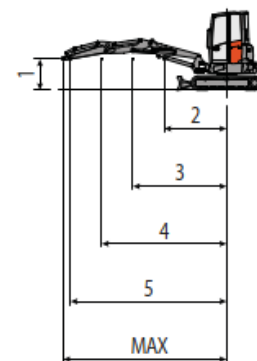
HUBLAST

Öffnung des Arms in Bezug auf Rotationszentrum (m)
Hublast (kg) auf 1.0 m Höhe

	2	3	4	5	MAX
Frontal mit abgesenktem Planierschild	*3.060	*1.530	*1.240	*1.140	*980
Frontal mit angehobenen Planierschild	2.880	1.460	930	630	520
Seitlich	1.970	1.080	700	470	390

* Zeigt den Grenzwert der Hydrauliklast an.

Hebekraft basierend auf ISO-Norm 10567 und überschreitet nicht mehr als 75% der Kipplast oder 87% der hydraulischen Hebe-Kapazität der Maschine.



APPENDIX 1: DISPLAY TERA 7

1.1. Installing the DISPLAY TERA 7



New TERA7 Display consisting of:

- display screen
- n°5 function buttons

The operator can interact with the display through the five function buttons under the screen as well as through the navigation knob and buttons Home and Reset, located on the right dashboard.

Navigation knob



HOME button

RESET button

NEW DISPLAY TERA 7

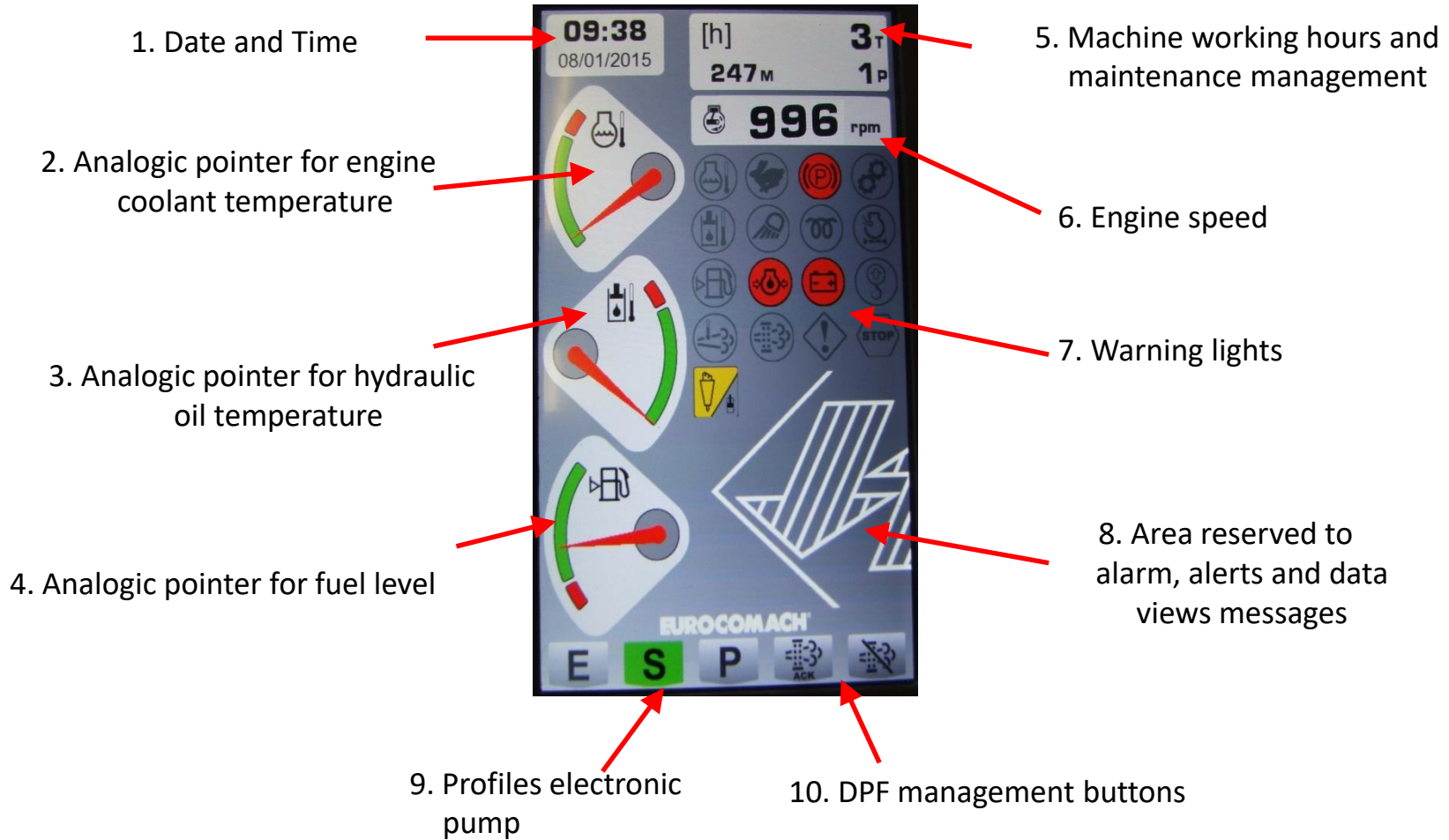
START CHECK SCREEN: DISPLAY TERA 7



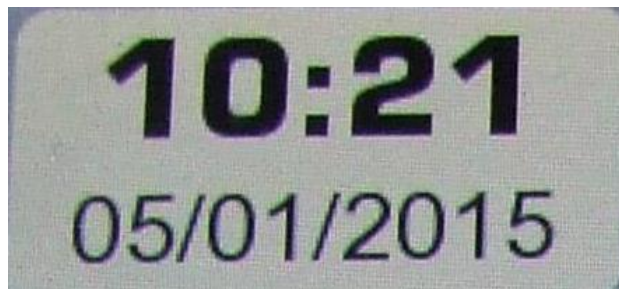
When the machine is on and during the initial check of all electronics, the display shows a basic screen indicating the software version installed on the display. This version can be communicated to EUROCOMACH spare parts department in case of need of a new Display.

NEW DISPLAY TERA 7

HOME SCREEN: DISPLAY TERA 7

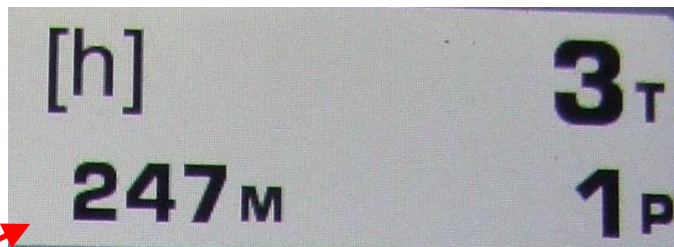


1.3. BASIC SCREEN (HOME) AND SCREEN AREAS



1. Date and Time. You can modify Time and Date in both value and format by entering the correspondent screen (see paragraph XXX)

2. Machine working hours and maintenance management



Hours left to next scheduled service. If the value is less than or equal to 10 hours, a message will be displayed in the specific area for 30 seconds after turning on the machine. If the value is negative (maintenance expired) you will see near the value the image of a spanner.

Machine total hours counter

Machine partial hours counter: to reset see paragraph 13

1.3. BASIC SCREEN (HOME) AND SCREEN AREAS

3. Engine speed

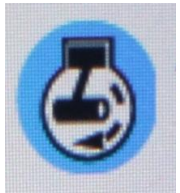


Engine operating mode
(AUTO IDLE)

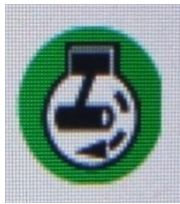
Present engine revolution



Normal functioning of the machine with
AUTO IDLE function deactivated



AUTO IDLE function activated but not operating: the
conditions for automatic deceleration don't exist;
therefore, engine speed is controlled by the
accelerator knob.



AUTO IDLE function is active and operating (engine effective
conditions are under automatic deceleration). Engine speed
will automatically return to the value indicated by the
accelerator knob, as soon as you will operate on the
machine controls. (in profiles S and P, see following page)

1.3. NEW DISPLAY TERA 7

4.3. HOME SCREEN: DISPLAY TERA 7

4. Pump profiles



You can set the required operating modes of the electronic pump through these three buttons (the selection is confirmed by a message that appears for a few seconds on the specific message area of display, as well as by a warning light above the button):

ECONOMY (Fuel save mode): engine speed is fixed at 2000 rpm (fuel minimum consumption); pump torque and LS differential pressure is set to low values, in order to carry out precise and not hard works, with better sensibility of the movements and economizing on fuel.



STANDARD (Normal functioning of the machine): engine speed is given by the accelerator knob. Pump torque and LS differential pressure are variable according to variation of engine speed. Values are standard, suited for a normal usage of the machine, in standard working conditions and assuring the right power and speed.



POWER (Maximum performance mode): engine speed is given by the accelerator knob. Pump torque and LS differential pressure are variable according to variation of engine speed. Values are at the maximum level, in order to have the highest performance allowed and the fastest speed on movements.

P.S: operating mode selection can be executed only with left armrest down. If the armrest is up, the machine will automatically go to STANDARD mode.

1.3. BASIC SCREEN (HOME) AND SCREEN AREAS

5. Engine DPF indicators and warning lights



Warning lights and/or alarms related to engine antiparticulate filter (DPF) such as:

- message on any automatic regeneration in progress;
- request of manual regeneration;
- message of manual regeneration in progress;
- alarm on DFP system.

In addition to warning lights, the display supports the operator also through explanatory messages displayed in message area. If the manual intervention of the operation is required, he will have the possibility to interact with the machine electronic through the last two function buttons F4 and F5:



F4 indicator for DPF manual regeneration

F5 indicator for blocking or inhibiting DPF regeneration process

1.3. BASIC SCREEN (HOME) AND SCREEN AREAS

6. Message area



In the lower right part of the display you will find a message area where there will be displayed:

Operating parameters of the machine (if set by the operator) as hydraulic circuit pressures or hydraulic oil and engine coolant temperature;

Alarm messages of the machine (engine alarms, anomalies on the electronics, etc.);

Info on schedules maintenance (when 10 hours or less are left to the next Scheduled Maintenance);

Info on settings made by the operator on pump profiles;

Info on engine conditions, such as IDLE for the Auto-Idle function or limited speed during WARM-UP phase;

Info related to DPF regeneration, as suggested or required to the operator.

If there are multiple display screens simultaneously, the specific frame will have a flashing red border; the operator can scroll through the screens by turning the knob on the right dashboard. When there is a new message, it will be displayed before the others.

1. NEW DISPLAY TERA 7

NAVIGATION DASHBOARD RIGHT SIDE

On the right dashboard there are display navigation controls. In particular:

Navigation knob: the knob can be turned right and left to scroll the different menu sections, to scroll texts in display message area, to modify the values of any parameter. The knob is also a confirmation button, so if you push it, it will execute Enter control on set values, that will be saved on the control unit of the machine.

Home button: when you push it, display will return on Home screen (see Par.3)

RESET button: when you push it you will delete the previous command; therefore you will exit the actual screen and go back to «father» screen. If you push more times this button, you will go back to Home screen.

If you don't operate for 10 seconds on some screens. Display will automatically go back to Home.

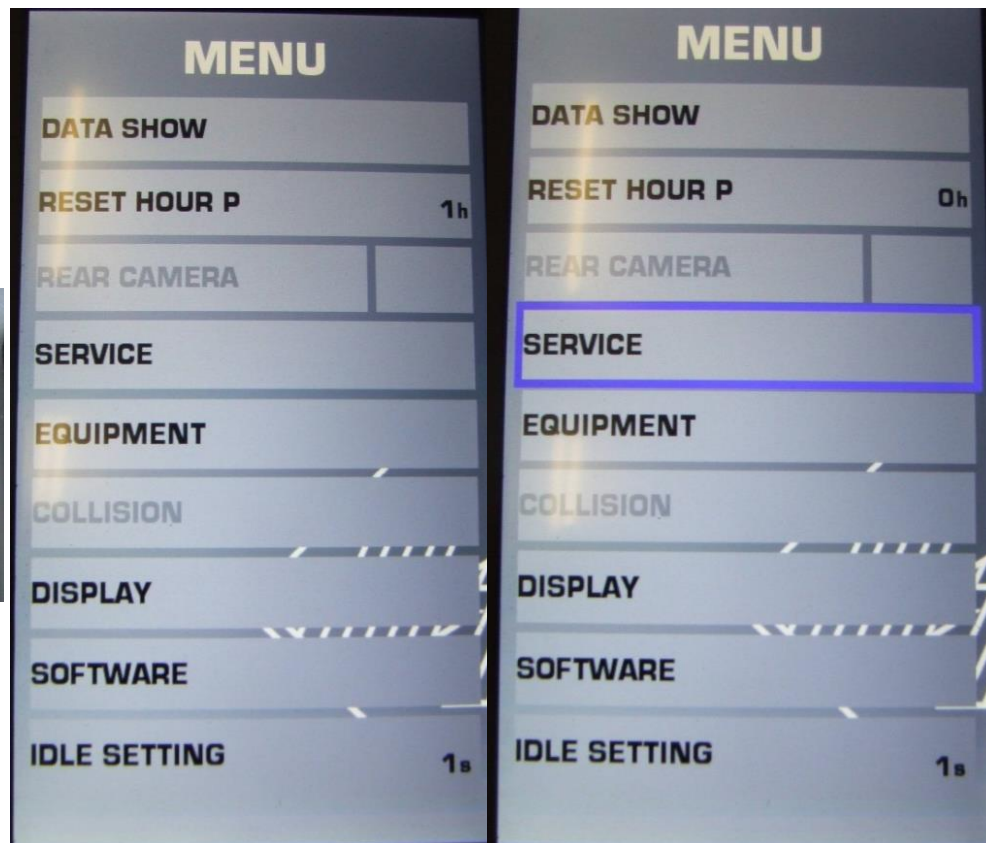


HOME Taste

RESET Taste

1. NEW DISPLAY TERA 7 MENU SCREEN

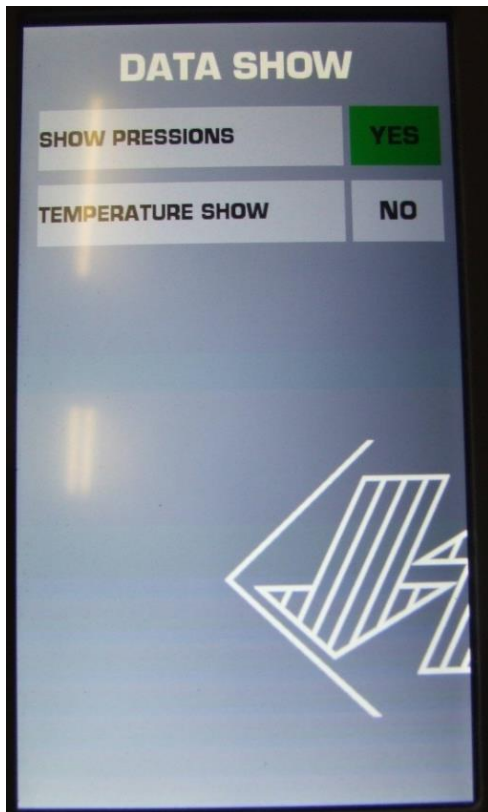
From Home screen, pushing on the knob, you will have access to MENU page, where you will be able to scroll all different screens and access to all different functionalities. By turning the knob right and left you can scroll menu sections from top to bottom and from bottom to top. The correspondent section will be indicated by a lightning blue border. By pushing again on the knob you will confirm it and enter the selected sub-menu.



1. NEW DISPLAY TERA 7

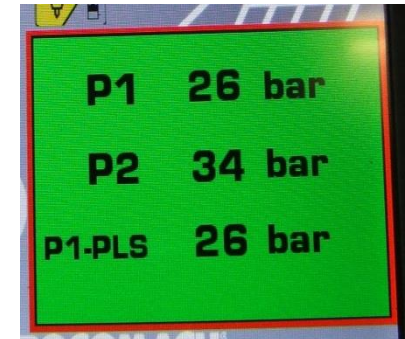
MENU SCREEN – DATA SHOW SCREEN

It is possible to check some functional parameters of the machine, also during working phase, by selecting the specific menu option; you need to position the cursor on the desired option, select it with the knob, turn the knob in order to modify the default value NO to YES, and confirm again pushing on the knob.



The displayed data are:

1- PRESSURES: you can check P1 (main pressure), P2 (joystick pressure) and LS Delta P (Load Sensing control on pump/control valve) values



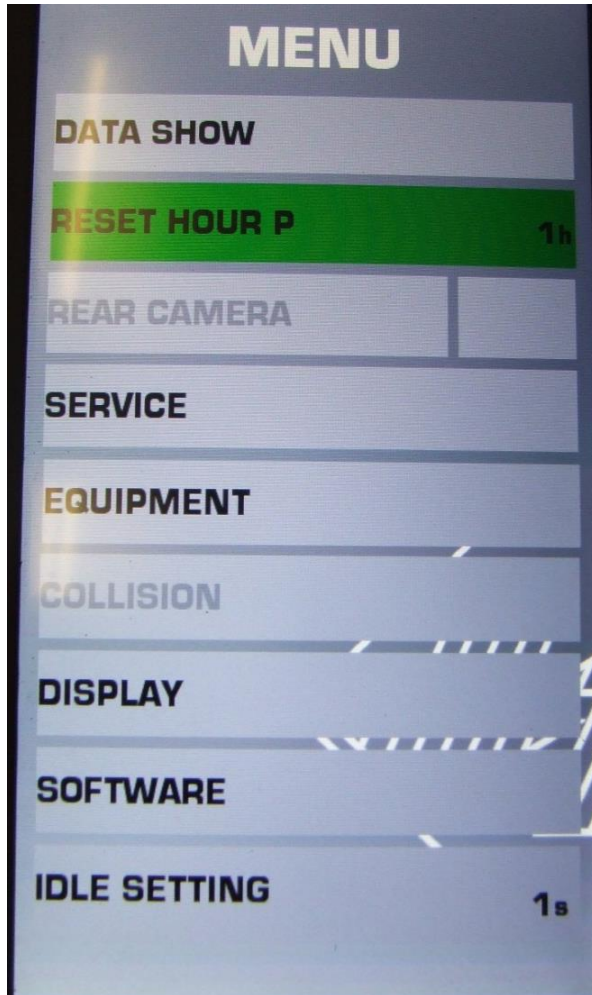
2- TEMPERATURES: you can check engine coolant and hydraulic oil temperature values (oil values under 40°C are indicated with "LOW"). These values are showed also through pointer instruments always active on Home screen.



If there are multiple display screens simultaneously, the specific frame will have a flashing red border; the operator can scroll through the screens by turning the knob. When you turn off the machine, all screens will automatically close and you will have to select them again in order to see them.

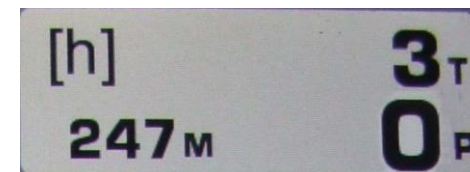
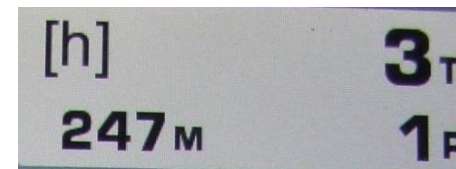
4. NEW DISPLAY TERA 7

MENU SCREEN – RESET HOUR SCREEN



If you select the option «Reset hour p», it will turn green. If you push again the knob, you will confirm the command and partial hours counter will turn to zero.

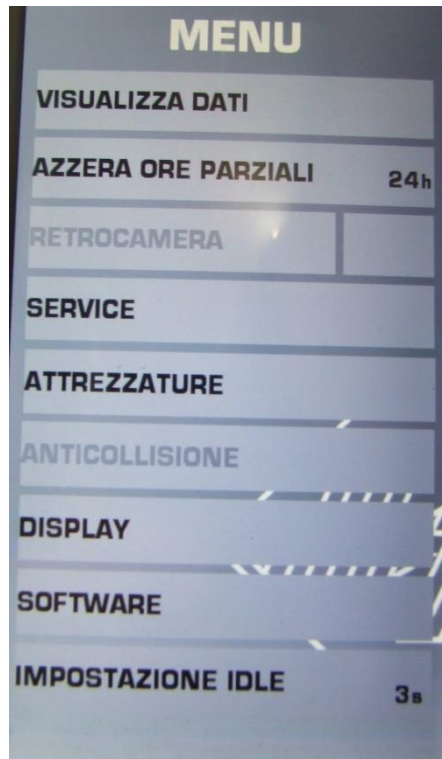
The value will be displayed on home screen :



1. NEW DISPLAY TERA 7

MENU SCREEN – REAR CAMERA SCREEN

If the machine is not equipped with rear camera kit, the corresponding option on Menu appears in grey and cannot be selected.

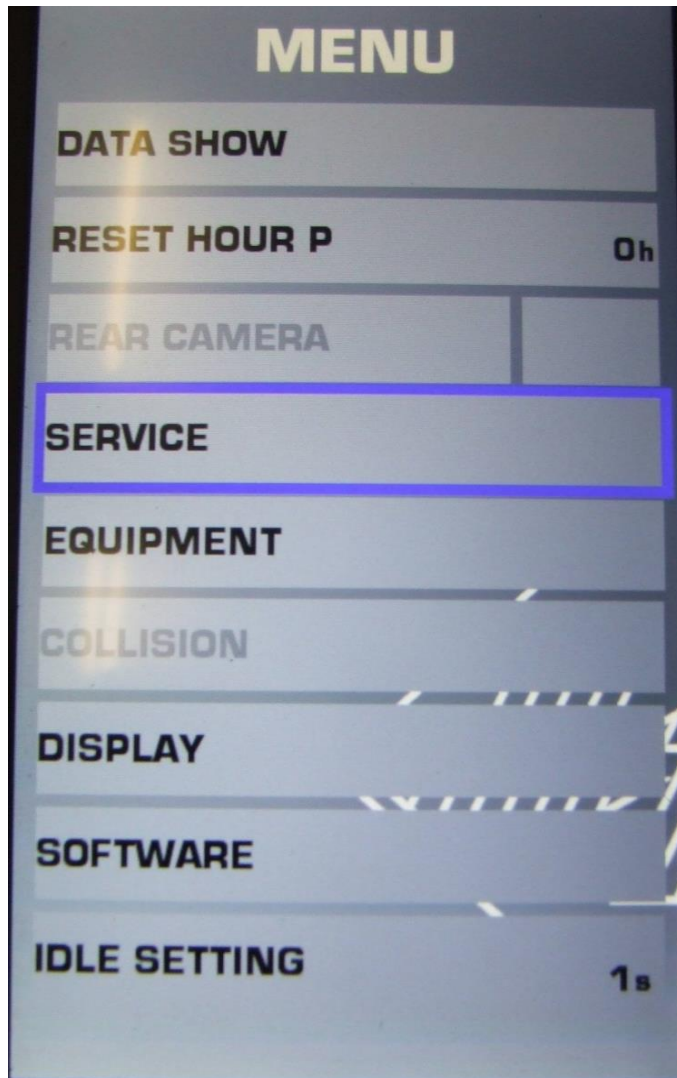


If the machine is equipped with rear camera kit, the option can be selected. If you modify the default value “No” to “YES”, the rear camera will activate and you will have the possibility to see it in a specific area on Home screen.



1. NEUES DISPLAY TERA 7

1.5.4. BILDSCHIRM MENU - SERVICE



The service menu is dedicated to the official EUROCOMACH Authorized Workshops (including dealers).

It's a password-protected menu that you can use:

- can read out a list of all machine alarms (DATA LOGGER)
- can reset the customer service
- can manage the engine speed depending on the applied load

1. NEW DISPLAY TERA 7

MENU SCREEN – SERVICE SCREEN

To have access to Service you will need to insert a password, that will be given to authorized workshops and dealers directly from the manufacturer. Password is made of 5 numbers that have to be inserted progressively, by turning the knob until you reach the correct number and by pushing the knob to confirm it. When you insert the 5th number and if the number is correct, you will access to Service. Otherwise, the system will require you again to insert the password.

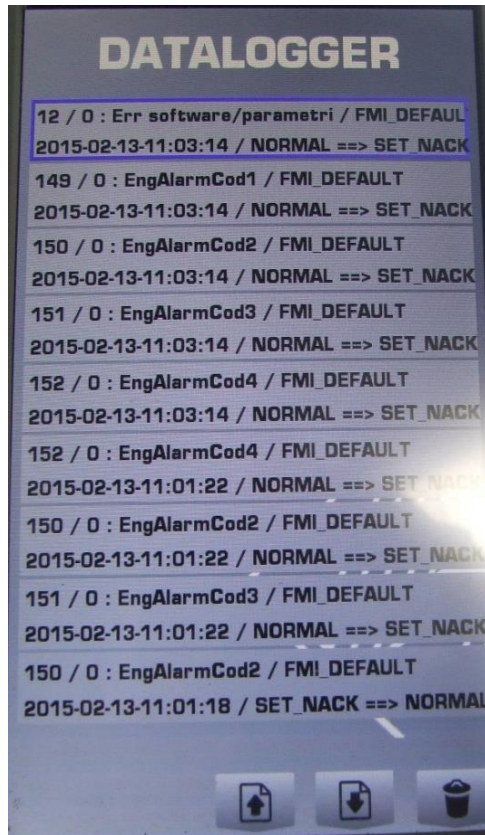


From SERVICE menu you can:

- 1- Enter the DATALOGGER (list of stored machine alarms)
- 2- Reset service intervals at the end of scheduled maintenance
- 3- Modify engine management from ICO-CHRONOUS (when the engine is under load, it will not change its speed, but it will keep it fixed until it reaches the maximum torque for the given speed) to DROOP (when the engine is under load, even if it is under the maximum torque limit, it will reduce its revolutions until it reaches an equilibrium situation, and it will recover the lost revolutions when the load is released). The machine will be delivered with the setting Ico-chronuos (preferable both for what concern the sound level produced by engine and for the lower fuel consumption).

1. NEW DISPLAY TERA 7 MENU SCREEN – SERVICE SCREEN

1- **Datalogger** (list of all machines with stored alarms)



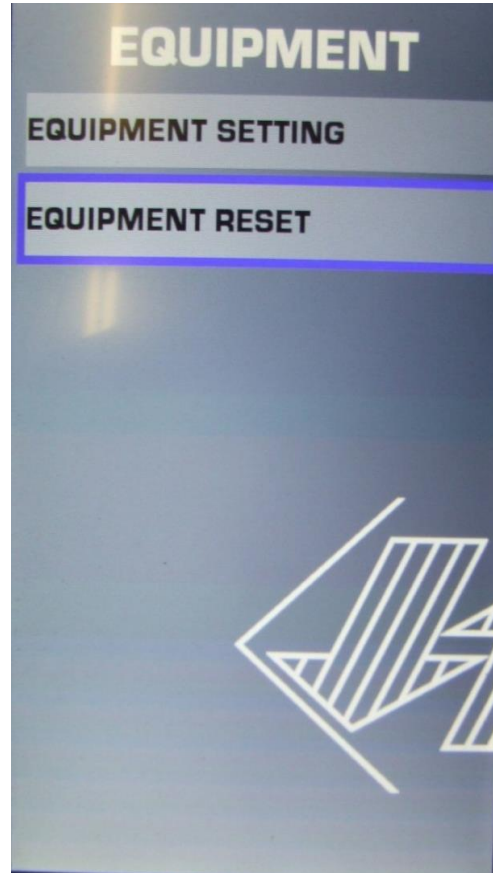
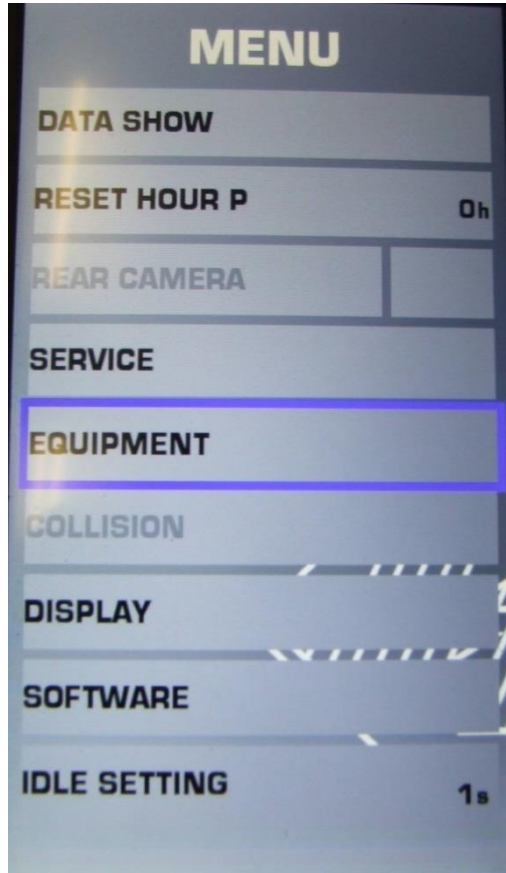
2- After customer service, reset this



3- Conversion of engine control from standard ICO-Chronus - to Droop



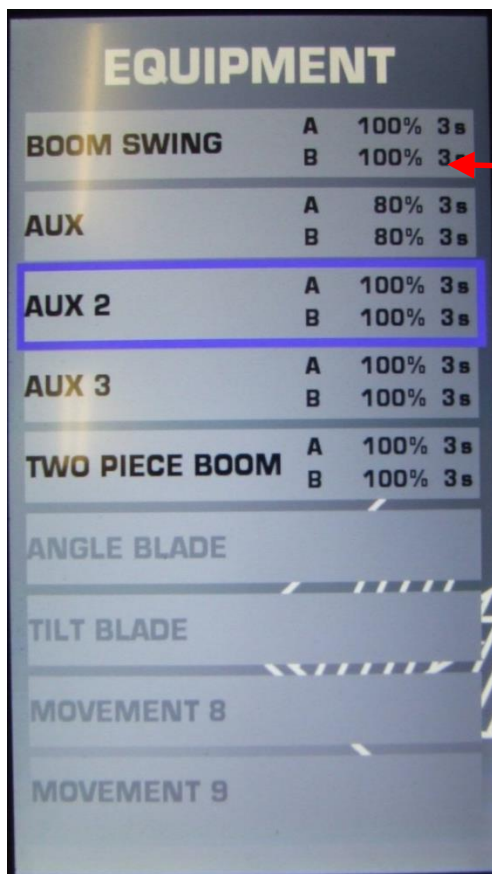
1. NEW DISPLAY TERA 7 MENU SCREEN – EQUIPMENT



- From “EQUIPMENT” option you have access to a sub-menu that allows you:
- To modify/set the parameters of the electronic potentiometers controlled by rollers on the joysticks; in particular you can modify oil flows in both directions and sensitiveness of the control (see following page).
- To reset all modifications you did returning all electronic controls to the original values saved by Eurocomach.

1. NEW DISPLAY TERA 7

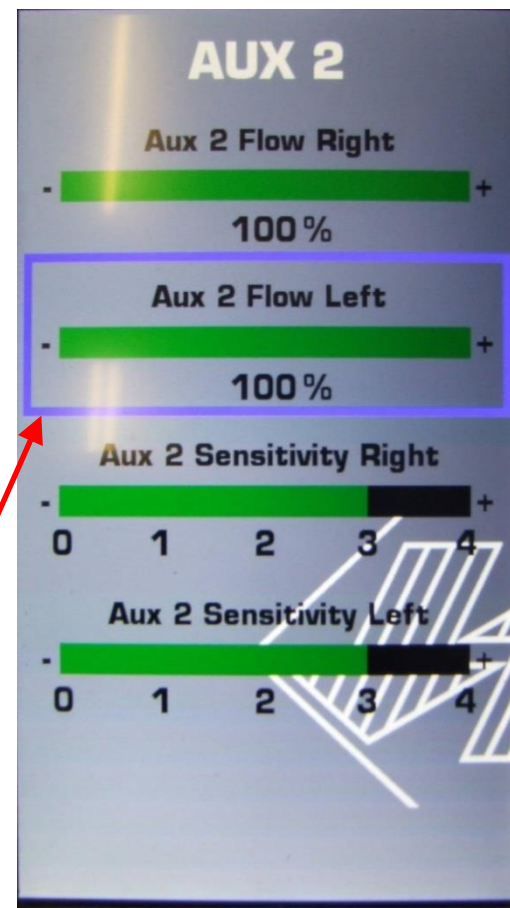
4.5.5.1. MENU SCREEN – SUB MENU EQUIPMENT



If you select on the main page EQUIPMENT the option “EQUIPMENT SETTING”, you access to the list of the controls where you can modify the parameters. When the colour of the control is grey, it means that you cannot choose it because this control is not included in your machine (ex. “ANGLE BLADE”, etc.).

To select the control to modify, you need to scroll the list with the knob and confirm it by pushing on the knob. As an alternative, you can simply move the roller that controls the function that you want to change.

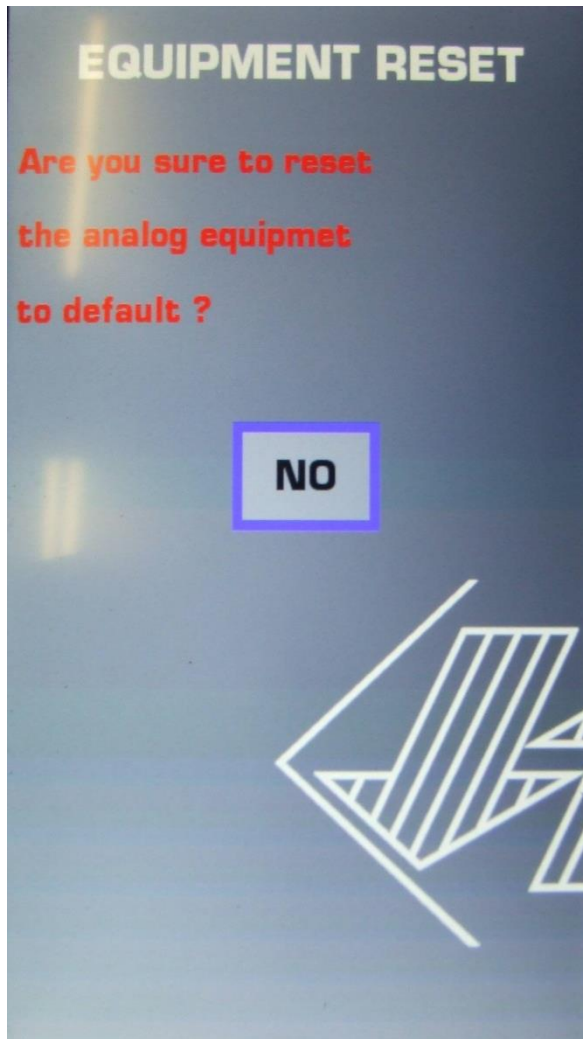
After having selected the control to be modified, you enter on the screen with the list of possible modifications, that you can chose through the knob (to select you need to turn the knob and to confirm your choice you need to push on the knob, to set your value you need to turn the knob and to confirm you need to push on the knob); in particular you can modify the percentage value of oil flows on both directions and the sensitiveness value from a minimum of 0 (effect like on/off control) to a maximum of 4 (very sensitive control).



At this point you can return to screen “EQUIPMENT” pushing on RESET button and proceed with the setting of another function.

1. NEW DISPLAY TERA 7

MENU SCREEN – SUB MENU EQUIPMENT

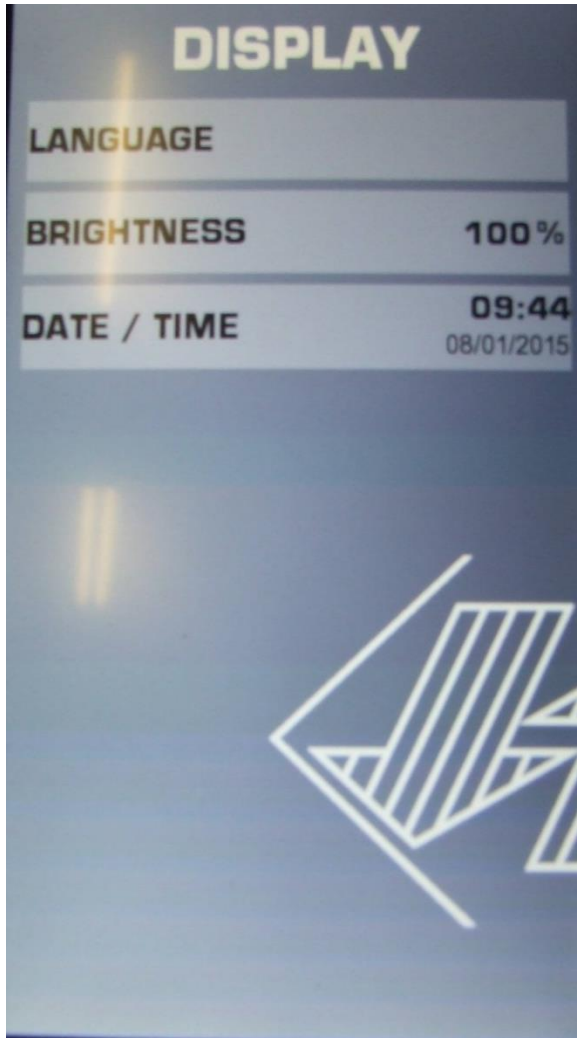


By selecting on screen EQUIPMENT the menu “EQUIPMENT RESET”, you access to a page that requires you expressively if you really want to proceed with the reset. You can modify the default value “NO” to «YES» by turning the knob and confirm by pushing on the knob.

ATTENTION: this operation will delete all possible customization the customer inserted (Swing boom / Two-pieces boom / AUX / AUX-2 / AUX-3), like the oil flows and the sensitiveness and the machine will return to the original settings decided by the manufacturer.

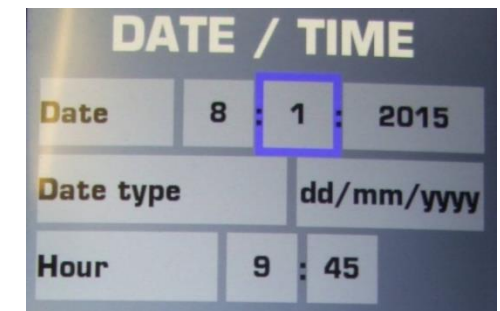
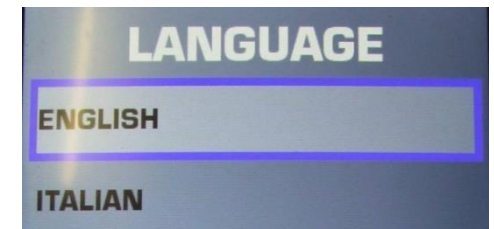
1. NEW DISPLAY TERA 7

MENU SCREEN – MENU DISPLAY



“DISPLAY” screen allows you to:

- 1- Set the desired language on display, choosing between Italian and English
- 2- Modify the brightness of display: during daytime it is better to leave brightness at 100%; in case of working conditions in darkness, it is preferable to reduce the value in order to avoid discomfort for the operator.
- 3- Set values of Date and Time and define the desired format for date



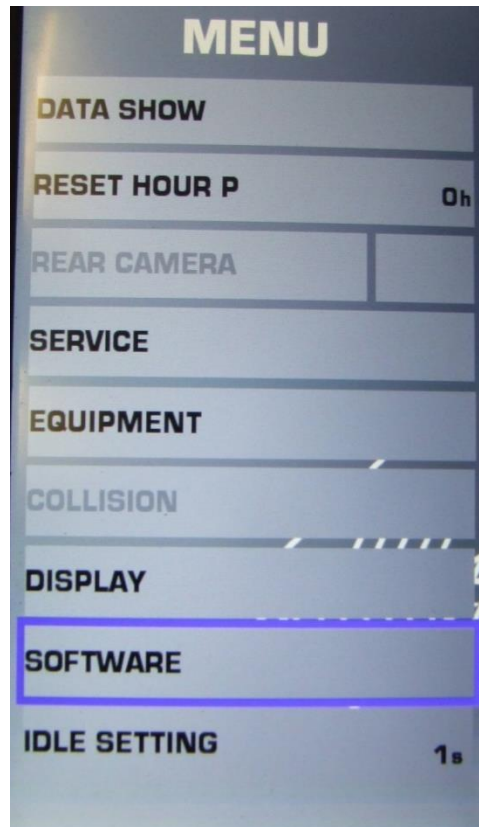
1. NEW DISPLAY TERA 7

MENU SCREEN – SOFTWARE

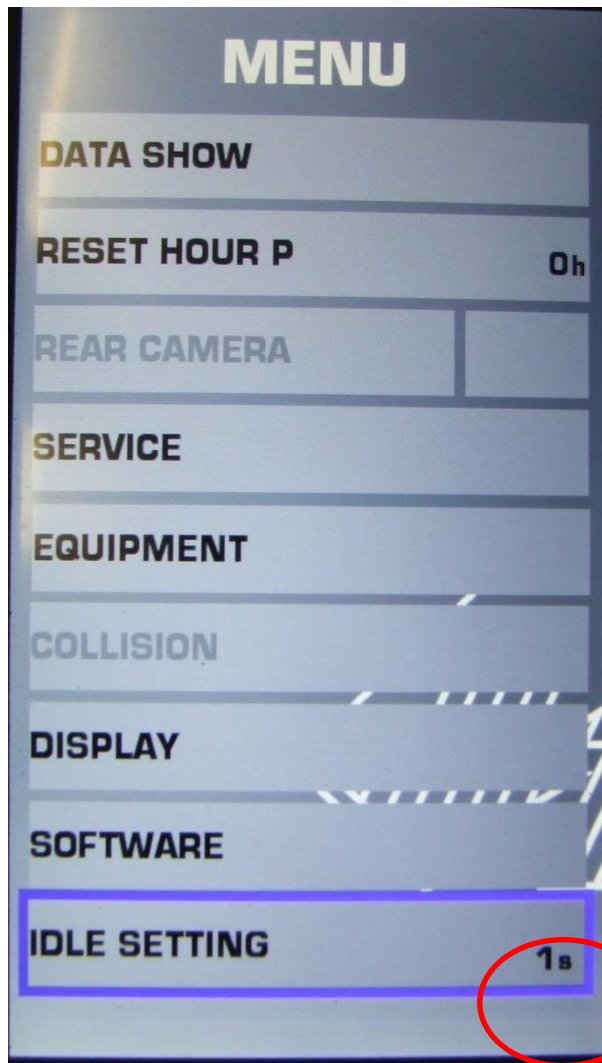
From MENU, you can access to Software screen in order to view the revision code for:

- Software installed on control unit of the machine;
- Software installed on Display

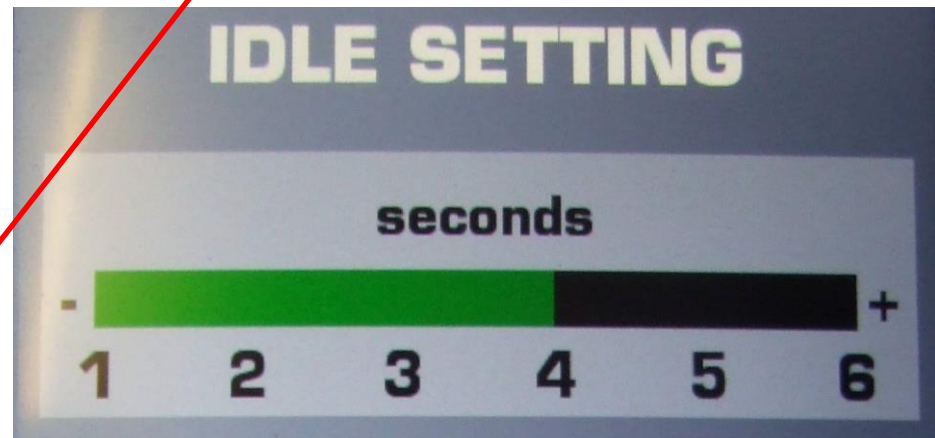
These codes can be used in case of request for assistance or for spare parts and must be reported to EUROCOMACH assistance centre.



1. NEW DISPLAY TERA 7 – VERSION TIER IV MENU SCREEN – MENU IDLE SETTING



On screen “IDLE SETTING” you can set the delay time for activation of automatic deceleration, from a minimum of 1 to a maximum of 6 seconds. By turning on the knob you can increase or decrease the value, by pushing on the knob you will confirm the desired value. You will have the possibility to see the delay time you chose directly on Menu screen, next to “IDLE SETTINGS”.



UPDATE DISPLAY - FROM APRIL / MAY 2021

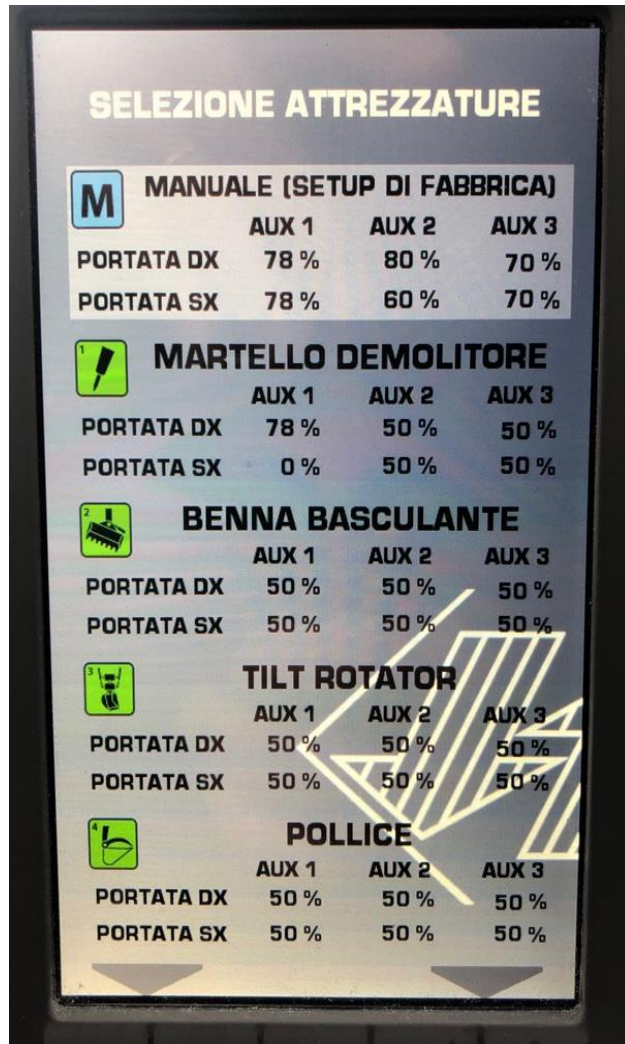
DISPLAY: FAN DRIVE SETTING



- **Forced Manual Inversion:** Allows forcing the inversion of the fan wheel rotation. After approx. 30 seconds the system begins to turn in the right direction again.
- **Automatic reversal at start:** If YES is selected, the fan will rotate in the opposite direction for approximately 30 seconds each time the engine is started.
- **Time-controlled automatic inversion:** If this option is selected, the fan reverses the direction of rotation at predefined intervals for approx. 30 seconds.
- **Auto Reverse Interval:** Can be changed from 30 to 270 minutes.
- **Fixed revolutions:** If the temperature conditions allow this, the fan can be forced to fixed revolutions (4 speed intervals).

UPDATE DISPLAY - FROM APRIL / MAY 2021

DISPLAY: ATTACHMENTS SETTING



- The display can be used to save the parameters of various attachments need (flow rates, command sensitivity, etc.).
- While working, it is then possible to call up the desired attachment parameters without having to reset the parameters each time it is used.
- The corresponding symbol then lights up in the display.
- It is possible at any time to reset all parameters to the original factory settings.



UPDATE CHANGEOVER TO REXROTH EOC - FROM APRIL / MAY 2021

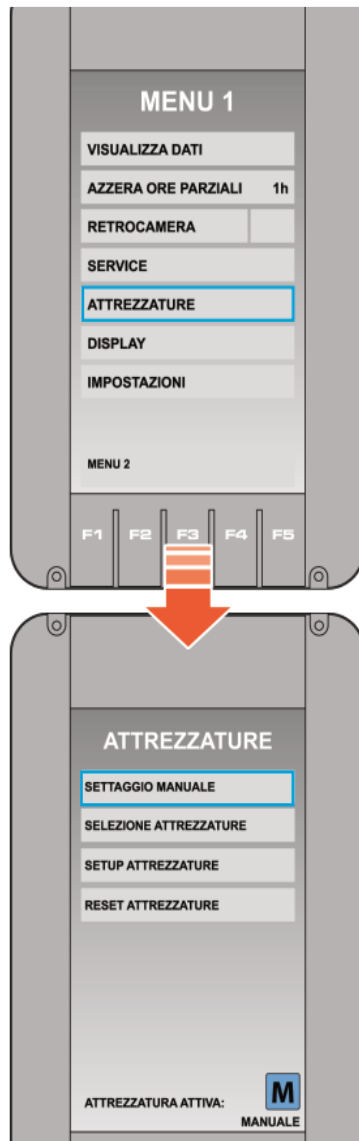
DISPLAY MENU - ATTACHMENT SETTING:



- From 2021, the liter volume setting can also be assigned to a specific attachment.
- By adding some features:
- it is possible to change / set the flow parameters of the auxiliary circuits and save them on a specific attachment.
- You can select a specific attachment that you want to use in the display and even set its specific parameters before.

UPDATE CHANGEOVER TO REXROTH EOC - FROM APRIL / MAY 2021

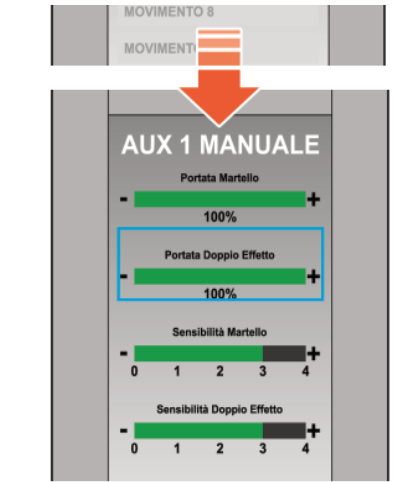
DISPLAY MENU - ATTACHMENT SETTING:



- **YOU CAN ACCESS TO THE FOLLOWING SUBMENU IN ATTACHMENTS:**
- **MANUAL ADJUSTMENT:** Adjustment of the liter quantities and sensitivity of the electro-proportional scooter in both directions (as before)
- **SELECTION OF ATTACHMENTS:** Select a pre-saved parameter setting which can be preprogrammed at the factory for a specific attachment or which can be changed and saved beforehand. (*New)
- **ATTACHMENTS SETUP:** Adjust the parameter setting to a corresponding attachment and its identification symbol.
- **RESET ATTACHMENTS:** You can reset the settings you have made to the factory settings at any time.

UPDATE CHANGEOVER TO REXROTH EOC - FROM APRIL / MAY 2021

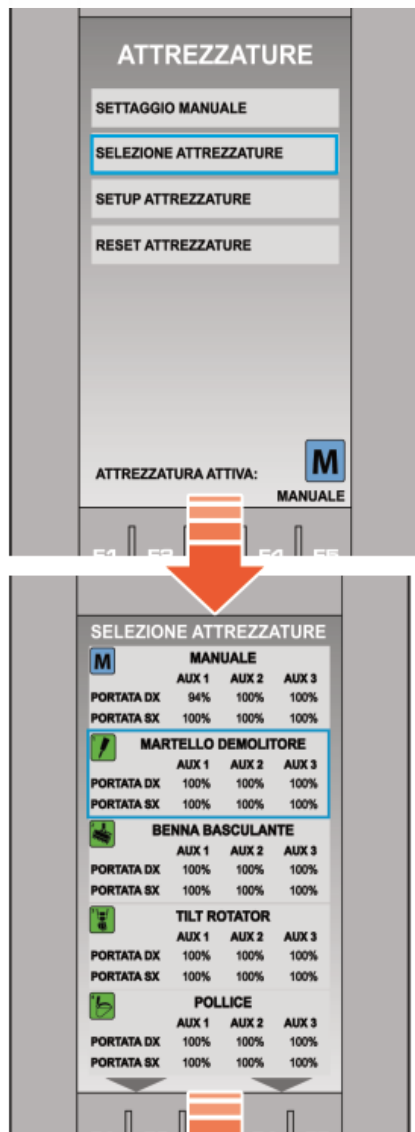
DISPLAY MENU - ATTACHMENT SETTING:



- **MANUAL SETTING: (as usual)**
- Selection of an element, circuit AUX1 - AUX2- AUX 3-swing - or Two pieces boom, 6 way blade (depending on what is available on the machine. Black lettering on the machine / gray lettering not available)
- % Setting liter quantities on both sides and sensitivity from 0-4 (0 = jerky almost ON / OFF effect / 4 = very sensitive)
- **AUX 1 - AUX 2 - AUX 3 can only be changed directly in the M (manual setting)**
- With other pre-set attachments, AUX 1- AUX 2 and AUX 3 can only be **set in the ATTACHMENTS SETUP submenu**

UPDATE CHANGEOVER TO REXROTH EOC - FROM APRIL / MAY 2021

DISPLAY MENU - ATTACHMENT SETTING:



- **SELECTION OF ATTACHMENTS:**
- Selection of 9 pre-stored attachments plus mode M (manual setting)
- On this page you can also see the preset parameter sets for each attachment with the corresponding icon
- It is automatically linked to the name of the attachment icon
- There are 9 different symbols available, which have different device symbols, if you have other devices than the prepared ones, you can use 6 identified general symbols from generic letters: A-B-C-D-E-F.
- The **icon of the activated ATTACHMENT** is always displayed on this screen and on the **home screen**. (in the photo example M)

UPDATE CHANGEOVER TO REXROTH EOC - FROM APRIL / MAY 2021

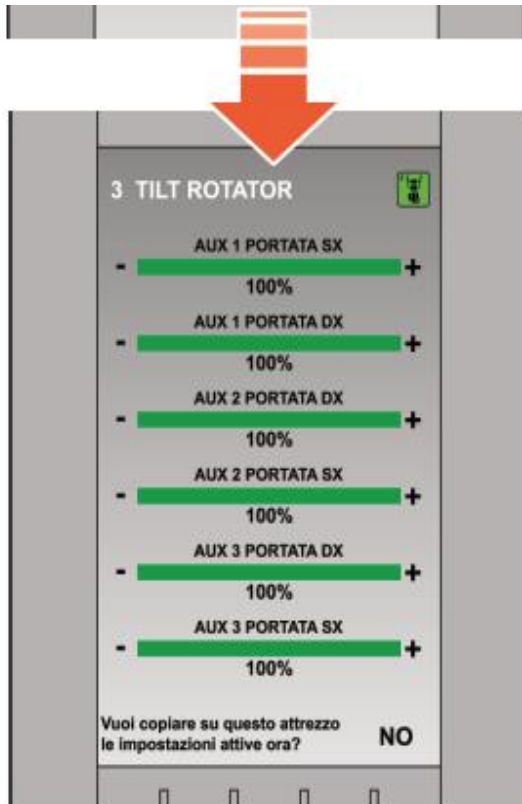
DISPLAY MENU - ATTACHMENT SETTING:



- **ATTACHMENT SETUP:**
- Select the position (from 1 to 9) of the attachment parameter setup which you want to edit and you will get to the setting screen
- Turn the navigation wheel to select
- Confirm the selection to change the setting
- Press the button yourself and turn it to set the value
- Then confirm by pressing again.
- In particular, the following can be changed:
 - - the name of the device to choose from among the available names and generic letters (icon will update automatically);
 - - the AUX 1 flow rate on both sides;
 - - the AUX 2 flow rate on both sides ;
 - - the AUX 3 flow rate on both sides.

UPDATE CHANGEOVER TO REXROTH EOC - FROM APRIL / MAY 2021

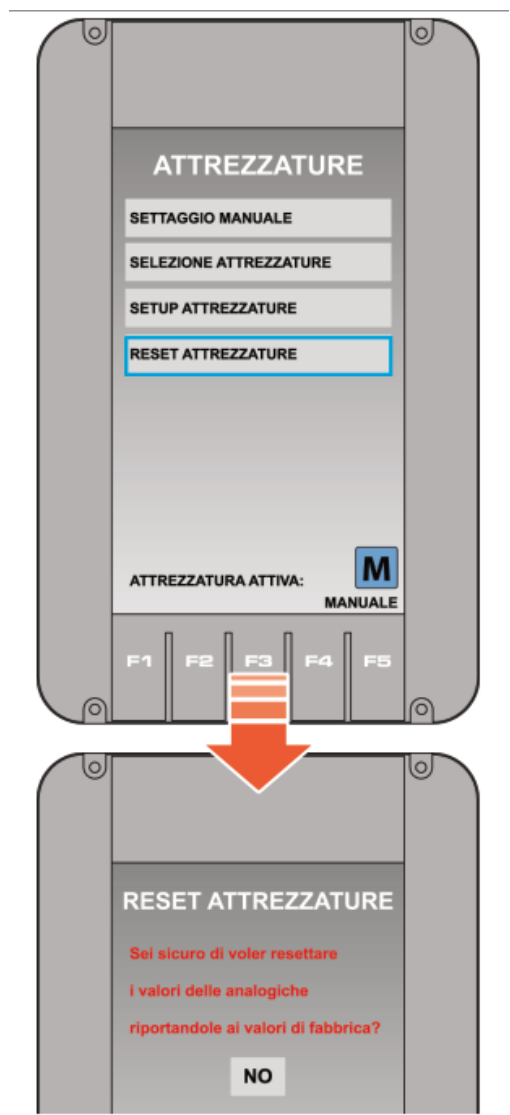
DISPLAY MENU - ATTACHMENT SETTING:



- **ATTACHMENT SETUP:**
- For each attachments setting, the parameters of all available additional circuits can be adjusted.
- It is recommended that the settings only be made on the systems whose equipment is actually used.
- Each position can be assigned a unique name (from 1 to 9) or repeat it as required.
- In order to speed up the pasting of the settings for other attachments, it is possible to copy the values that have already been set to other attachment settings:
 - Activate the attachment you want to copy from.
 - Enter the SETUP of the desired position (from 1 to 9) and copy;
 - At the end of the page change the value NO to YES and wait for the countdown to finish.
- You can change these values later if necessary.
- **The sensitivity settings can ONLY be edited from the MANUAL SETTING submenu and apply to all attachment parameter settings.**

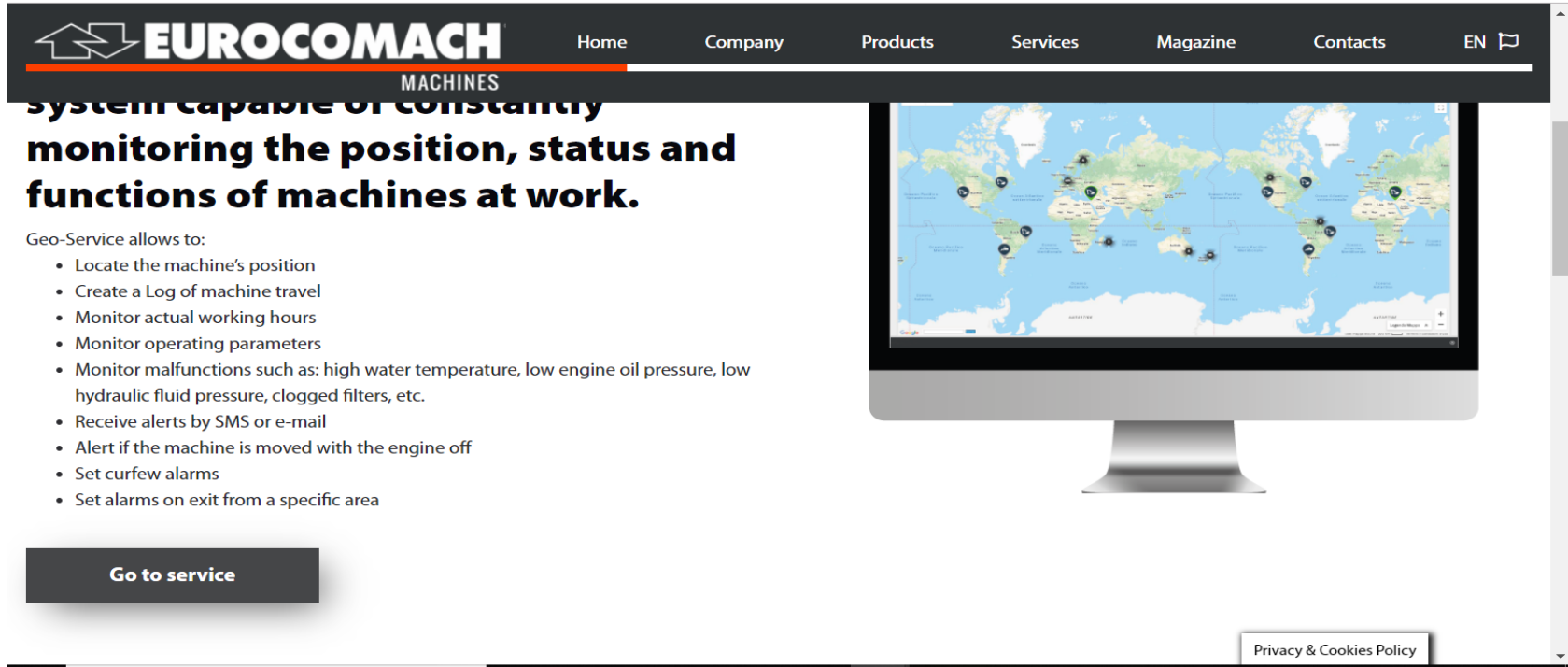
UPDATE CHANGEOVER TO REXROTH EOC - FROM APRIL / MAY 2021

DISPLAY MENU - ATTACHMENT SETTING:



- **RESET ATTACHMENTS:** You can reset the settings you have made to the factory settings at any time
- In detail, upon confirmation, all personalization made by the user with regard to the attachment settings will be reset.
- i.e. with regard to liter quantities and sensitivities, all electro-proportional movements (both those that are affected by the devices (AUX1-AUX2 and AUX 3) but that are not (such as swing, two pieces boom or 6 way blade) etc.
- This is expressly requested by accessing the screen. Confirmation of the reset process must be expressly confirmed.
- Turn the navigation button to change the value from NO to YES by default and confirm the selection by pressing the button itself.
- **ATTENTION:** In this way you will lose all adjustments to the parameters entered by the customer.

Appendix 3: Standard GEOSERVICE SATELLITE SYSTEM (also anti theft)



The screenshot shows 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 markers. 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:

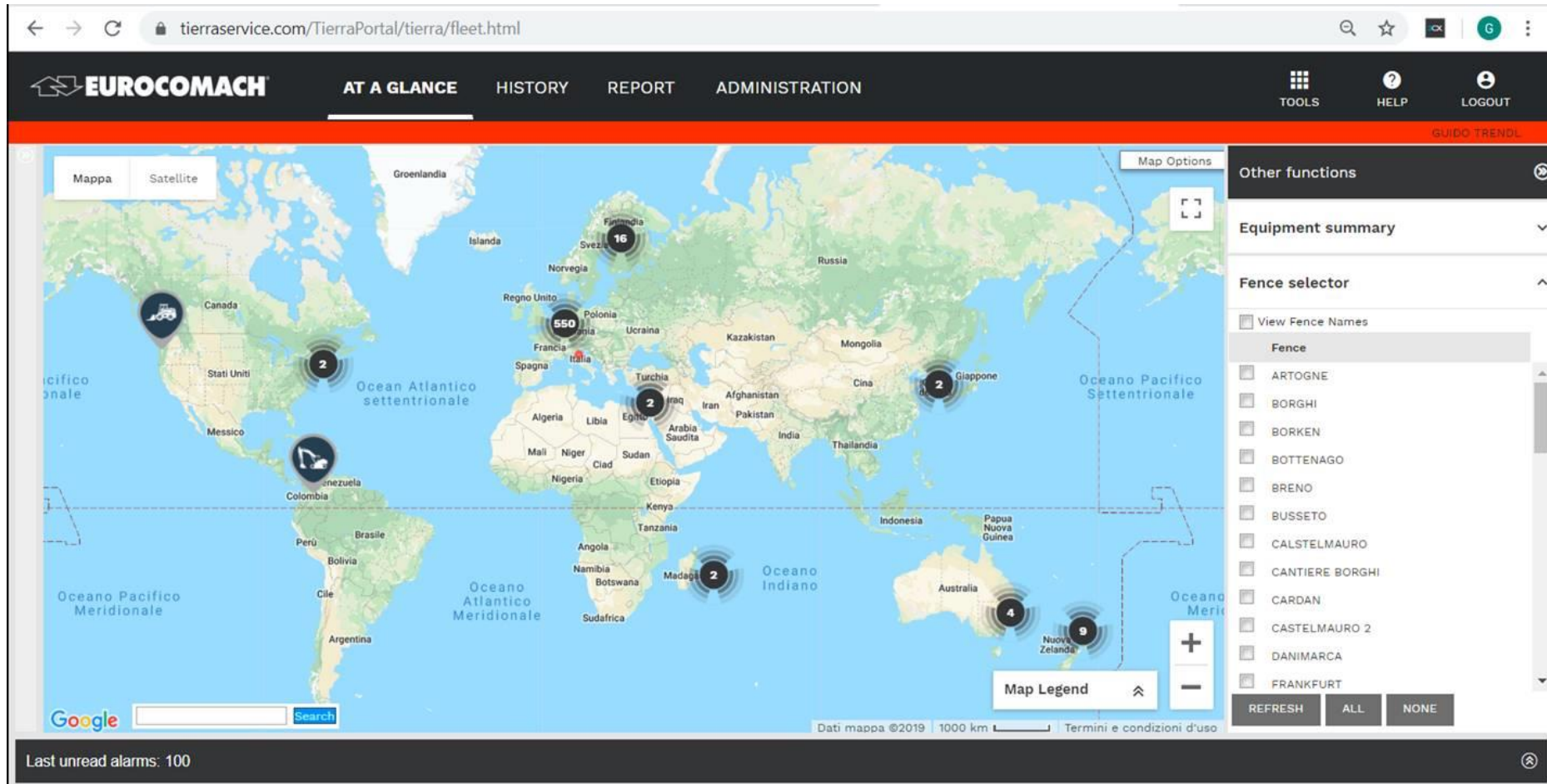
- Locate the machine's position
- Create a Log of machine travel
- Monitor actual working hours
- Monitor operating parameters
- Monitor malfunctions such as: high water temperature, low engine oil pressure, low hydraulic fluid pressure, clogged filters, etc.
- Receive alerts by SMS or e-mail
- Alert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

[Go to service](#)

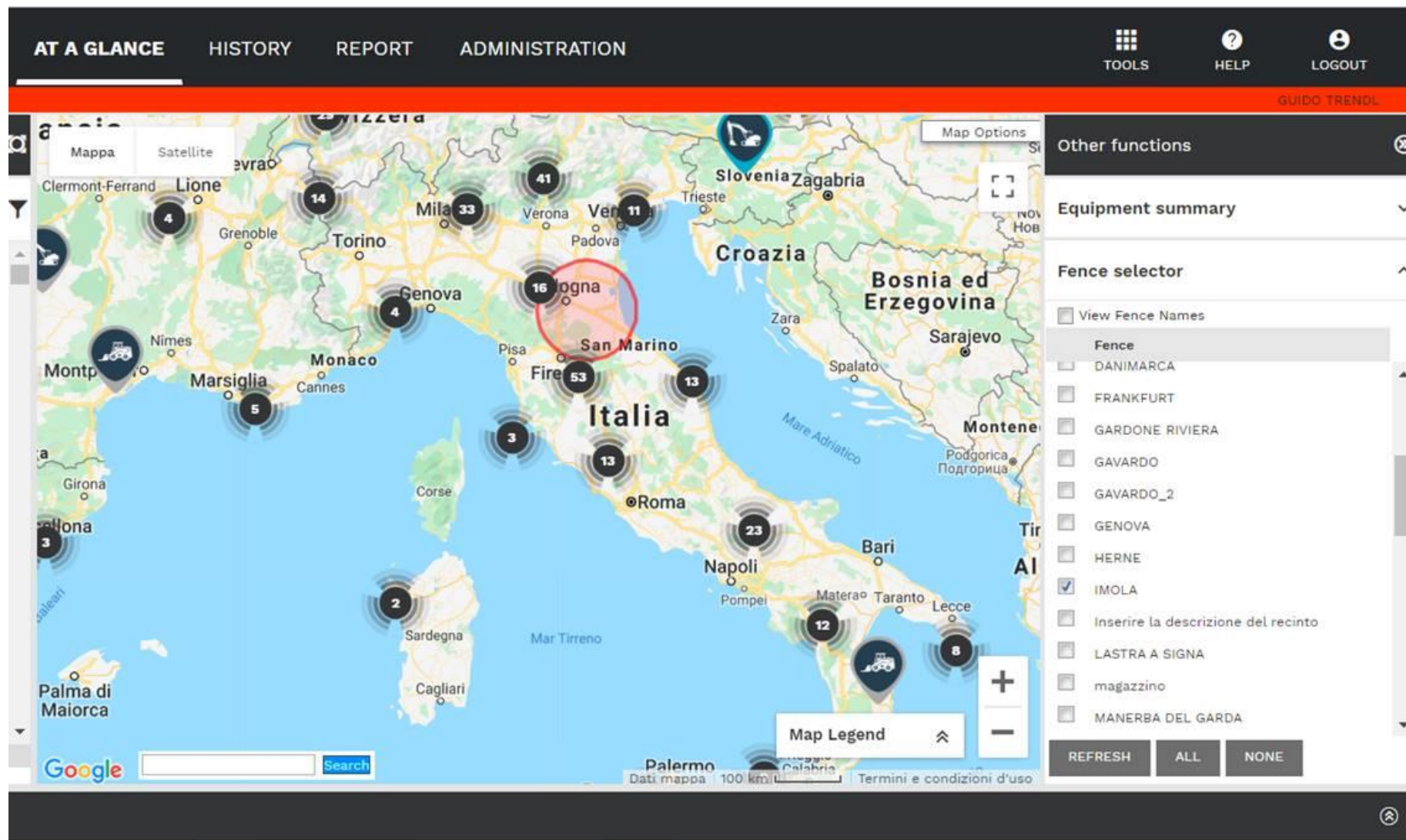
[Privacy & Cookies Policy](#)

- 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 🔍 ☆ 🌐

EUROCOMACH AT A GLANCE **HISTORY** REPORT ADMINISTRATION TOOLS ? HELP LOGOUT GUIDO TRENDI

Mappa Satellite

Google [Search] Dati mappa ©2019 100 m Termini 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

Page 1 of 1 Displaying 1 - 34 of 34

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

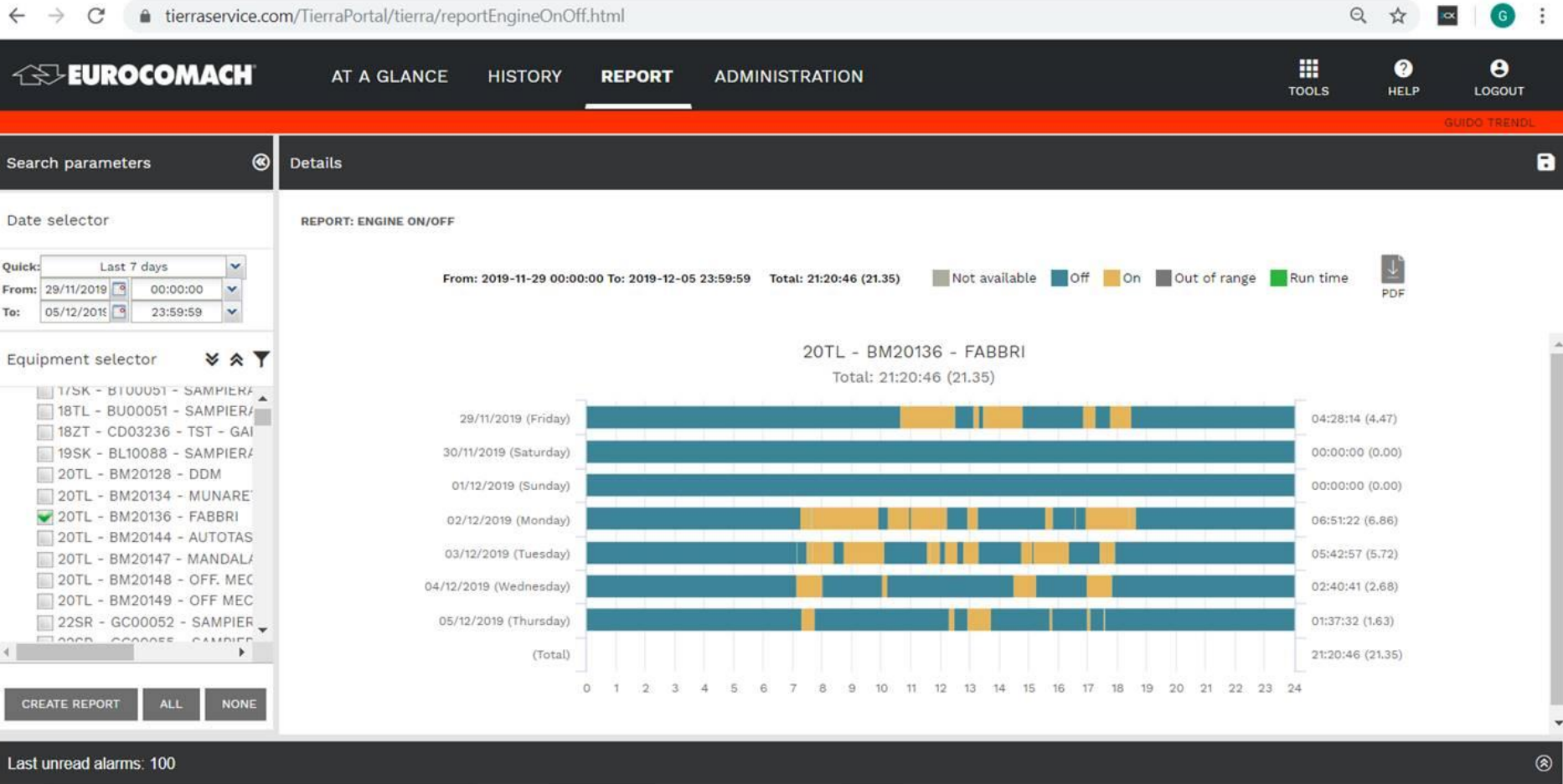
Last unread alarms: 100

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

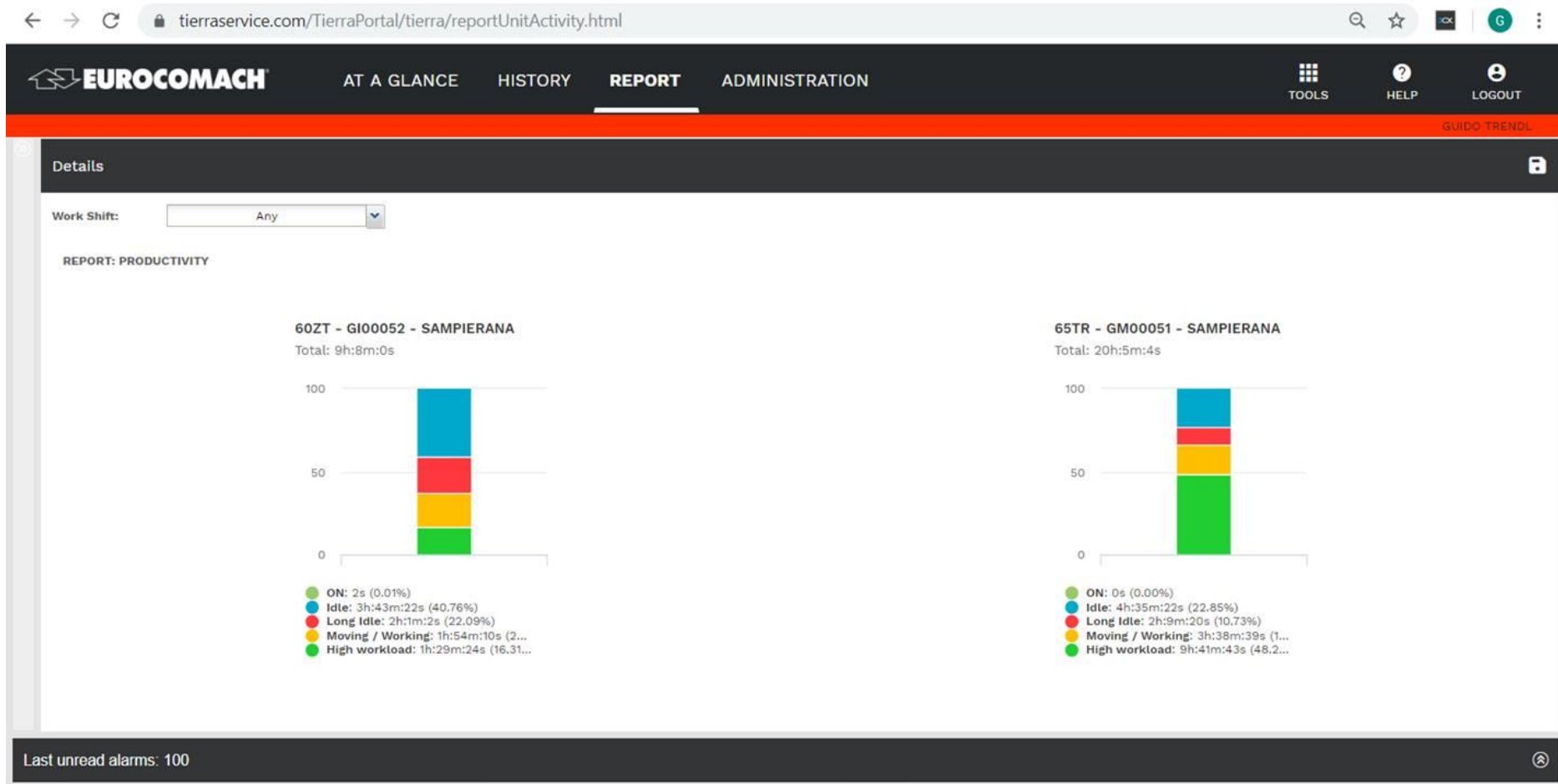
Report: Engine ON/ OFF



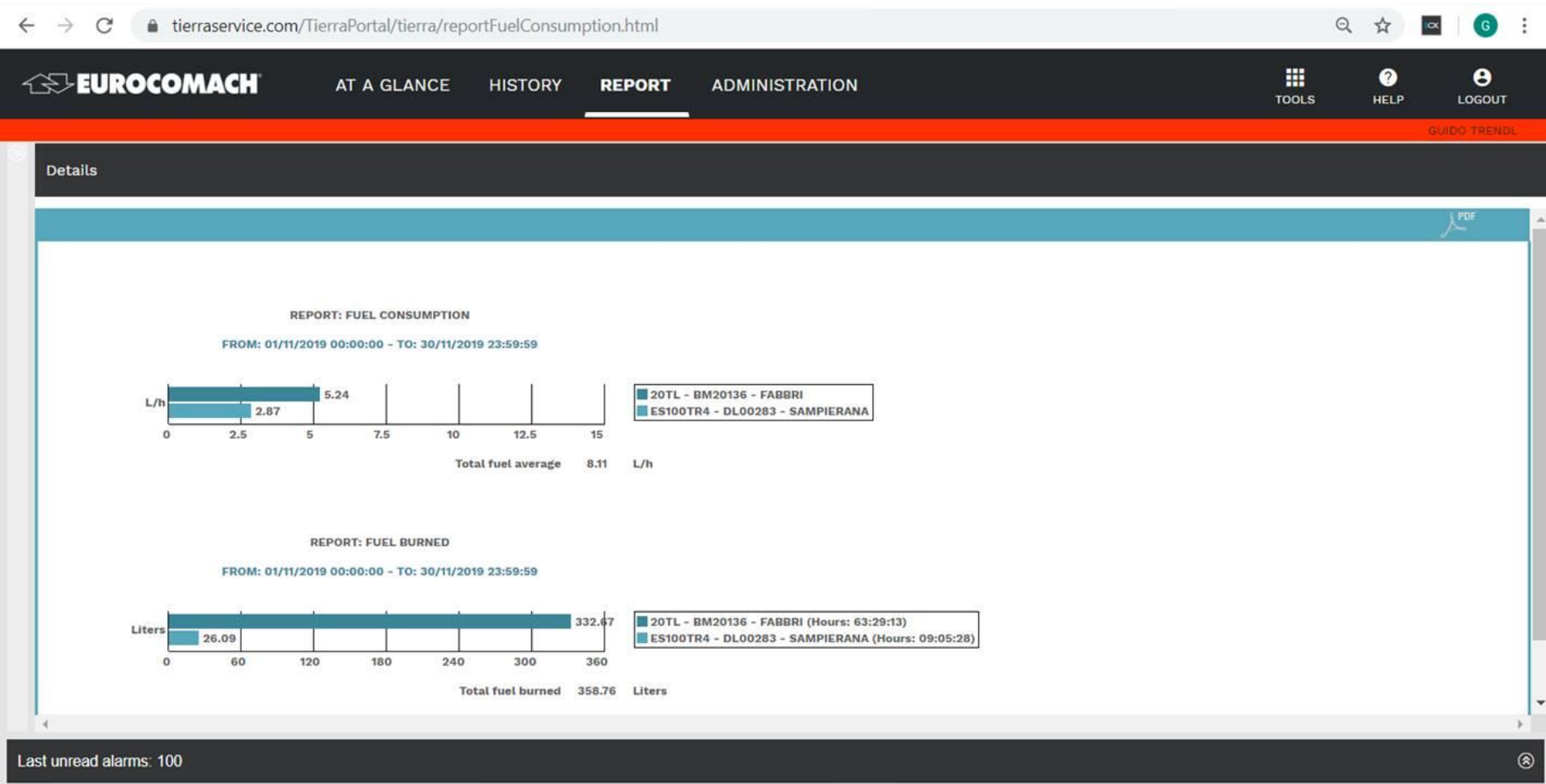
MINIDIGGER 42 ZT – 45 TR – 50 ZT - 55 TR STAGE V

95

Report: productivity



Report: fuel consumption



Report: CAN – Bus Data:

Remote analysis and service assistance from the factory

← → ↺ tierraservice.com/TierraPortal/tierra/reportCan.html

EUROCOMACH AT A GLANCE HISTORY **REPORT** ADMINISTRATION

TOOLS ? HELP LOGOUT

GUIDO TRENDL

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	

Page 1 of 1

Displaying 1 - 74 of 74

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