# Harvesters 500 series

EcoLog®
Forestry of tomorrow

# Eco Log - when you´re in control

Eco Log's G series of pendulum arm harvesters offers you as a customer highly productive harvesters for all your needs – from our smallest, the Eco Log 550, to our largest, the Eco Log 590. All G series models are equipped with a brand-new, modern, and spacious cab in which every single component has been specially chosen to make your working day that bit easier and to ensure that you can work even more effectively and productively. We have also taken our Eco Log 580G to the next level by giving it more unrivaled power as it now shares the same platform as our largest harvester, the Eco Log 590G.

Ground clearance up to
**4 feet**
(1,2 m)
for mobility in any terrain

Improves your productivity

Long service intervals



## UNIQUE PENDULUM ARM TECHNOLOGY

The Eco Log 500 series of harvesters offers operators complete control over their work by leveling and adjusting the machines to the prevailing ground conditions whatever the terrain. The pendulum arms comprise a unique Eco Log solution, ensuring that whenever the machine is tilted, raised, or lowered, both crane and operator are optimally positioned to continue working highly productively. In steep or rocky terrain, the pendulum arms really come into their own, enabling you to easily navigate the terrain and place the timber to simplify the work of the forwarder.

# Superior ground clearance

Eco Log's 500 series provides unbeatable ground clearance and mobility in difficult terrain.

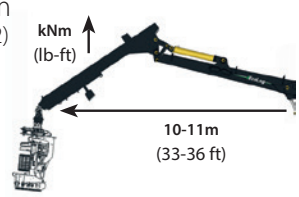
Thanks to the pendulum arms, the harvester's ground clearance can be adjusted from just over 4 inches (11 cm) up to almost 4 feet (1.2 m). The harvester passes over logs and rocks effortlessly, raising and lowering the undercarriage by means of the pendulum arms, either individually or together in concert. Thanks to the machine's ability to pass high obstacles and cross steep slopes, mobility is maximized, providing the necessary conditions for high productivity and efficiency.

550 T-PRO | 235 kNm
(173327 lb-ft)

560 | 255/270 kNm
(188078/199142)

580 | 280 kNm
(206517 lb-ft)

590 | 310 kNm
(228644 lb-ft)




## POWERFUL CRANE

Experience the power of Eco Log's proprietary harvester crane. The crane is specially developed for harvesters and can easily maneuver and lift the head even when used at long reaches. Together, our powerful harvester crane and pendulum arms enable highly efficient crane operation while maintaining an optimal and stable working position regardless of the terrain.

## HIGH RELIABILITY

Eco Log's 500 series harvesters stand out thanks to their great reliability and trusty power source, a Volvo Penta engine with a service interval of 1,000 hours. The engines are characterized by high performance, reliability, and fuel efficiency, which, combined with the robust machine build and high serviceability, enable you as a customer to maximize your technical utilization.

# Welcome inside Eco Log's harvester cab

As a key feature of the G series, we are proud to present a brand-new harvester cab, one that has been developed with our full focus on you, the customer. We can offer a modern cab designed for maximum comfort, spaciousness, and ergonomics that also offers operators optimal visibility of the work area at all times. When designing this new cab, we prioritized making your working day a pleasure by introducing new air conditioning and sound systems and ensuring plenty of space. The swivel seat enables you to easily access and use the rear cab section as well, which offers ample space and storage.

The cab boasts windows made of thick safety glass and secure access routes via a brand-new platform that allows you to enter and exit your cab via the side-mounted door both easily and safely.

Moreover, the cab interior offers many smart storage spaces and features to increase the comfort, ease, and enjoyment of your working day in the forest. Welcome inside Eco Log's harvester cab!

Smart storage


## CAB CLIMATE

The cab uses a brand-new approach for the heating, ventilation and air conditioning (HVAC) system. The system has automatic temperature regulation and has been thoroughly tested in both hot and cold climates.
Heating options are available for both the windshield wipers and the windshield, which is something we especially recommend for anyone working in colder climates.

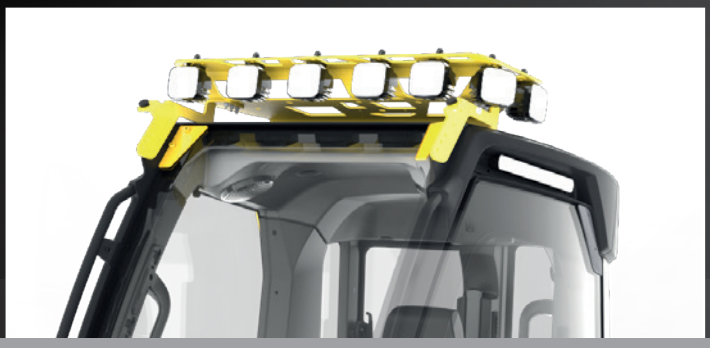
## SERVICE

As always, when developing our Eco Log machines, simple service is key, as was the case in the design of our new cab. We have achieved this by means of easy access behind the panels, such as by placing the fuse board under the top panel and gathering the troubleshooting points under a single panel. The air conditioning system comprises a single unit on the outside that is easily accessed by moving the rear cab panel – everything to ensure that you can complete any service as quickly and easily as possible.

## Interior

The harvester cab is your workplace, and working days spent in the forest are often long. This made it a given for us to develop our new cab to make your job enjoyable – every day. Here are some of the cab interior features we worked on to help optimize your working day in your Eco Log.

- The cab design enables a spacious interior with a large floor area.
- The material used for the cab interior and panels was carefully chosen to offer the highest quality and a modern look. The cab also has effective sound insulation and comfortable lighting in the shape of integrated LED lamps.
- All G series harvesters are equipped with our Eco Log NexSci control system, user-friendly keypads, an eleven-button joystick, and a new sound system with integrated subwoofer that is compatible with both Apple CarPlay and Android Auto.
- Several easily accessible and ergonomic handles.
- The cab has plenty of storage spaces both large and small, such as a shoe rack, several storage areas for bottle holders and thermos flasks, phone and key compartments, and a clothes rack with a built-in heater.
- Cooler/Lunchbox heater
- Many outlets for broad charging options with multiple connections: USB-C, USB-B, 12/24 V
- Keyless system for entering the machine – central locking for cab door and emergency exit.
- Optional underfloor heating
- Several different cab seats to choose between



### WORK LIGHTING

Reliable work lighting is a must for being able to work effectively regardless of the time of day or weather conditions. The light bar attached to the top of the cab has space for nine working lights, with space under the windshield for another four, next to the illuminated Eco Log logo. The rear of the cab also offers several options for working lights, while light bars for LED lamps are fitted as standard both on and above the cab door.

# Eco Log NexSci

Eco Log NexSci is a flexible and modern control system that takes your operator experience to a whole new level. When developing Eco Log NexSci, we have had you, the operator, foremost in our minds, resulting in a system with a focus on great user-friendliness that enables you to make all the necessary selections and settings easily and intuitively. Eco Log NexSci also gathers all machine functions on a single display. For you as an operator, this provides an excellent overview of both bucking and machine data while working, with all functions presented in a clear, stylish, and modern interface.

Even our proprietary keypads have a modern, slimline look, and the eleven-button joystick means that you always have easy access to plenty of functions, making your work performance ergonomic. Functions such as the reversing camera and stereo have been gathered in a single device, which also includes popular functions such as Apple CarPlay and Android Auto.

Eco Log NexSci is designed to meet future safety requirements. Moreover, thanks to its flexibility, it enables us here at Eco Log to continuously develop and adapt the system and its functions to meet your needs, as always with the goal of offering our customers the best system on the market.

Eco Log NexSci is found on all G series pendulum harvesters as well as on the most recent models of the previous generation, the F series.



# Development and continuous improvement

Here at Eco Log, we strive to continuously improve and develop our products, listen to customer preferences, and meet the demands and challenges of the future.

Presented below are some of our latest developments within the areas of Serviceability & Safety and Transmission & Performance – functions and updates you will, of course, find on all our G series harvesters. Most of the updates are also found on the most recent models of the previous generation of pendulum arm harvesters (the F series).

## SERVICEABILITY & SAFETY

Serviceability is always a priority here at Eco Log. For easy access, all machine parts and components have been placed under the large hoods, and thanks to the pendulum arms, the machine can always be raised or lowered to the optimum working height for servicing. The hose routing is designed to enable the service technician to easily access the various parts of the machine, and all service points have been gathered on the same side.

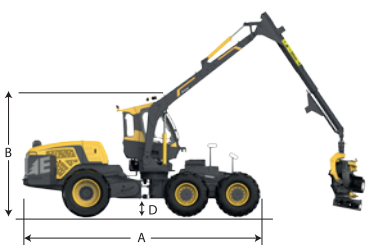
To further improve machine serviceability and safety, a number of improvements have been implemented on our 500 series harvesters.

- New fire extinguisher compartment on the front frame (from the G series).
- Improved ways to climb up onto our machines – steps, platforms, and handles that allow you to maintain three points of contact at all times.
- Above the batteries, we have added a platform as well as mounts for a ladder to improve access to the engine's service points.
- The front frame has an updated lowest step with anti-slip protection and the seals around the upper hatch have been improved.
- The rear frame has updated lashing points and improved ways to climb up, and we've also added a manual battery disconnector behind one of the hatches on the rear fender.
- We have redesigned the fuel tank for easier filling, fuel measurements, breathing, and fire safety. And above the tank, we have even added a mount for a digging bar.

## TRANSMISSION & PERFORMANCE

- We have refined our rear wheel transmission for increased speed and traction. Variable in-wheel motors for the rear-wheel drive provide a machine with smoother handling as well as greater mobility and reduced ground damage.
- Our continuously active anti-spin system automatically ensures that power is always given priority on the side with the best grip.
- A simplified hydraulic system reduces the risk of leaks and delivers greater fuel economy.
- A proportional valve for regulating the pressure to the head means that the head pressure level can be raised while maintaining lower pressure levels for other functions for better fuel economy.
- The updates also include a new control valve, updated slewing motors, and a valve for the slewing brake. And we have moved the rotator valve to the head as well. This has enabled a simplified crane valve, the result of which is increased safety, simpler hose routing, and shorter flow paths.
- The G series also sees the introduction of a cast rear pendulum arm that increases the machine's build quality and durability.

# Specifications





| | 550G T-PRO | 560G | 580G | 590G |
|---|---|---|---|---|
| **Dimensions** | | | | |
| Length, max. (a), mm (in) | 7402 (291) | 7402 (291) | 7672 (302) | 7767 (306) |
| Height, min./max. (b), mm (in) | 3338–4464 (131–176) | 3338–4464 (131–176) | 3338–4464 (131–176) | 3430–4820 (135–190) |
| Ground clearance (d), mm (in) | 146–1191 (6–47) | 146–1191 (6–47) | 146–1191 (6–47) | 175–1260 (7–50) |
| Weight, kg (lbs) | 19 600 (43210) | 19 600 (43210) | 20 800 (45856) | 21 500 (47399) |
| **Engine, Volvo Penta** | | | | |
| Type | 6 cyl. D8 - 7.7 l | 6 cyl. D8 - 7.7 l | 6 cyl. D8 - 7.7 l | 6 cyl. D8 - 7.7 l |
| Emission requirements, Euromot Stage/Tier | Stage V[1] | Stage V[1] | Stage V[1]/Stage III[2] | Stage V[1]/Stage III[2] |
| Power, gross, at 2200 rpm, kW/hp | 160/218 | 185/252 | 210/286 | 235/320 |
| Torque, Nm (rpm), (lb-ft) | 1060 (782) | 1160 (856) | 1237 (912) | 1310 (966) |
| Fuel tank, L (gal US) | 460 (122) | 460 (122) | 460 (122) | 460 (122) |
| **Transmission** | | | | |
| Hydrostatic | 6 WD, 2 gears | 6 WD, 2 gears | 6 WD, 2 gears | 6 WD, 2 gears |
| Tractive force, max, kN (lbf) | 195 (43838) | 195 (43838) | 195 (43838) | 220 (49458) |
| Driving speed, off-road/Driving speed, road, km/h (mph) | 0–5/0–15 (0–3/0–9) | 0–5/0–15 (0–3/0–9) | 0–5/0–15 (0–3/0–9) | 0–3,5/0–15 (0–2/0–9) |
| **Tires** | | | | |
| Front | 600/55x26.5 | 600/55x26.5 | 710/45x26,5 | 710/55x26,5 |
| Front, optional | 710/45x26.5 | 710/45x26.5 | 710/45x26.5 | 710/55x26,5 |
| Rear | 600/65x34 | 600/65x34 | 710/55x34 | 710/55x34 |
| Rear, optional | 710/55x34 | 710/55x34 | 710/55x34 | 710/70x34 |
| Machine width, std/optional (c), mm (in) | 2800/3000 (110/118) | 2800/3000 (110/118) | 3000/3100 (118/122) | 3000/3100/3116 (118/122/123) |
| **Steering** | | | | |
| Steering angle, ° | ±44 | ±44 | ±44 | ±44 |
| **Leveling** | | | | |
| Tilt angle, forward/backward, | ±17 | ±17 | ±17 | ±16 |
| Tilt angle, right/left, ° | ±25.5 | ±25.5 | ±25.5 | ±25.5 |
| **Crane** | | | | |
| Reach, m (feet) | 11 (36) | 11 (36) | 10–11 (33–36) | 10–11 (33–36) |
| Lifting torque, gross, kNm (lb-ft) | 235 (173327) | 255/270 (188078/199142) | 280 (206517) | 310 (228644) |
| Gross slewing torque standard/option, kNm (lb-ft) | 38 (28027) | 38 (28027) | 50 (36878) | 50/70[3] (36878/51629[3]) |
| Slewing angle, ° | 350 | 350 | 350 | 350 |
| **Hydraulic system** | | | | |
| Crane pump, cc (cu in) | 140 (8.5) | 140 (8.5) | 140 (8.5) | 180 (11) |
| Oil flow at 1600 rpm for crane, l/min (US gal/m) | 275 (73) | 275 (73) | 275 (73) | 288 (76) |
| Head pump, cc (cu in) | 145 (8.8) | 145 (8.8) | 145 (8.8) | 210(12,8) |
| Oil flow at 1600 rpm for head, l/min (US gal/m) | 285 (75) | 285 (75) | 285 (75) | 335 (88) |
| Max. harvester head pressure, MPa (PSI) | 28 (4061) | 28(4061) | 30 (4351) | 30 (4351) |
| Hydraulic tank, l (US gal) | 232 (61) | 232 (61) | 274 (72) | 274 (72) |
| **Electrical system** | | | | |
| Voltage, V | 24 | 24 | 24 | 24 |
| Batteries, Ah | 2x145 | 2x145 | 2x145 | 2x145 |
| Alternator, A | 130 | 130 | 130 | 130 |
| Work lights, number | 20 | 20 | 20 | 20 |
| Type | LED | LED | LED | LED |
| **Head** | | | | |
| Eco Log | EC 461 | EC 461/EC 561 | EC 561/EC 661[4] | EC 561/EC 661 |
| Log Max | 4000 | 4000T/5000V | 5000V/6000 | 6000/7000 |

(1) Stage V applies even for the USA. (2) Only available in countries outside EU/USA/Canada. (3) 70 kN theoretical value for machines equipped with 3 slewing motors (optional). (4) Only with 10 m (32.8 feet) crane.



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