

## Forestry Excavator - Official Technical Overview & Datasheet

### EXECUTIVE SUMMARY

Our Forestry Excavator represents the pinnacle of heavy machinery engineering, specifically designed to meet the rigorous demands of the timber harvesting, land clearing, and environmental restoration sectors. As global emphasis on sustainable forest management and operational mechanization intensifies, this machine offers a versatile, high-productivity solution that bridges the gap between traditional earthmoving and specialized forestry applications. Built upon a foundation of proven excavator technology, it is equally effective in the woods as a harvester, processor, or stump puller, as well as in the millyard for log loading and sorting, ensuring maximum return on investment for our clients.

Engineered with a focus on operator safety and total cost of ownership, this excavator sets a new benchmark for the industry. It combines a robust, high-torque powertrain with an advanced electrohydraulic system to deliver exceptional fuel efficiency and reduced maintenance schedules. The machine is available in multiple configurations—including General Forestry, Log Loader, and Road Builder—allowing it to be tailored precisely to the task at hand. Whether navigating steep terrain, sorting timber, or performing fire clean-up, this forestry excavator is the definitive choice for professionals who demand

reliability, power, and versatility.



## STRUCTURAL INTEGRITY & POWERTRAIN

The machine's backbone is a high-strength, reinforced chassis constructed from premium steel grades designed to withstand the extreme torsional stresses of forestry work. The upper structure is fortified with comprehensive guarding, including mainframe reinforcement, under-house plate protection, and heavy-duty side doors that shield critical components like the hydraulic pump and cooling system from debris. A rugged high-walker undercarriage provides exceptional stability and floatation in soft terrain, featuring heavy-duty links with double or triple grouser shoes and full-length track guards for enhanced durability and protection.

At the heart of the system is a powerful, emissions-compliant diesel engine (e.g., Cat C4.4) delivering net power of approximately 170 hp (129 kW) . This engine meets stringent emission standards, including U.S. EPA Tier 4 Final and EU Stage V, ensuring compliance with global environmental regulations . The powertrain is mated to a sophisticated hydraulic system that maximizes flow and pressure (up to 113 gpm and 5076 psi) to deliver rapid, responsive implement control. This system features load-sensing technology and cooling E-Fans with reverse capability, optimizing engine temperatures and reducing fuel consumption while maximizing productivity .

#### KEY FEATURES & OPERATOR COMFORT

- Certified Operator Protective Structure (OPS/ROPS/FOPS): The side-entry Next Generation forestry cab is engineered for maximum operator protection. It features a reinforced structure with a 32mm (1.25" ) thick polycarbonate front safety window, narrow cab pillars, and large panoramic windows to provide premium work task visibility while meeting stringent CSA or ISO standards for protection against falling objects and rollovers .
- Advanced Electrohydraulic Control System: Featuring a high-torque motor that provides powerful performance at low RPMs, the system reduces fuel consumption and enables precise implement control. Operators can choose from multiple control patterns (Processor, Roadbuilder, Log Loader) via an intuitive color LCD display that provides real-time diagnostics and fuel

monitoring .

- Multi-Configuration Versatility: The machine offers fixed or live heel and blade options and is compatible with a wide range of robust grapples (sizes from 52" to 60" ) and attachments. This allows for seamless transitions between felling, processing, loading, and road building, filling critical equipment gaps in any fleet .

- Extended Service & Maintenance Efficiency: To minimize downtime and reduce total cost of ownership, the machine features centralized grease points, easy access service panels, and extended greasing intervals. Long-life fuel and hydraulic oil filters with synchronized service intervals reduce maintenance frequency, while an engine air precleaner removes over 99% of airborne particles .

- Ergonomic Operator Environment: The spacious cab includes an air suspension seat, tilt-up armrest, and automatic climate control to reduce operator fatigue. The wide door and generous foot space ensure comfort during long shifts, contributing to higher productivity and operator retention .

## COMPLIANCE & SAFETY STANDARDS

This Forestry Excavator is designed and manufactured in accordance with the highest international safety and quality standards. The cab and protective structures are certified under ISO 12117-2 (ROPS), ISO 8084 (OPS), and relevant

CSA standards, ensuring operator protection in the event of rollovers, falling objects, or penetrating hazards .

- Engine Emissions: U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards .

- Quality Management: Manufactured under ISO 9001 certified processes.

- Lifting Operations: Designed for compliance with Lifting Operations and Lifting Equipment Regulations (LOLER) when used for lifting tasks .

- Structural Safety: Meets requirements for reduced temperature performance testing and labelling for protective structures, ensuring reliability even in harsh climates .

## TECHNICAL SPECIFICATIONS

\*All specifications are based on standard configurations (e.g., General Forestry) and may vary depending on optional equipment and attachments.\*

```
<table border='1' style='border-collapse: collapse; width: 100%;'><tr><th style='padding: 8px; text-align: left; background-color: #f2f2f2;'>Parameter</th><th style='padding: 8px; text-align: left; background-color: #f2f2f2;'>Specification (General Forestry Configuration)</th></tr><tr><td style='padding: 8px; border: 1px solid
```

Engine Model	Cat C4.4 (or Equivalent Tier 4 Final)
Net Power	170 hp (129 kW) @ 2,200 rpm
Operating Weight	~59,700 - 63,300 lb
Max Hydraulic Flow	113 gal/min (427 L/min)
Max Hydraulic Pressure	5,076 psi (350 bar)
Fuel Tank Capacity	91 gal (344 L)
Max Reach at Ground Level	Up to 38.1 ft (11.6 m)
Transport Width	11 ft (3.35 m)
Tail Swing Radius	9.3 ft (2.83 m)