



Case Study:

Horizontal Grinders

Reliable Radio Remote Control Solution for precise use in harsh environments

Image: CBI - a Terex brand

Continental Biomass Industries' line of equipment is highly customized to meet the specific needs of customers, ranging from sawmills to biomass energy plants. Therefore, CBI requires a highly customized remote-control platform that can meet their specifications and be operator friendly. In short, the rugged, intuitive, highly customizable, and easily deployable Rocket Flex platform checked all the boxes at CBI, including low cost of acquisition and maintenance.

Some results after implementation of the Scanreco solution:



75%
reduction in user error.



Capacity to ship to EU and international markets with 2.4 GHz radio frequency



Increased revenue streams by selling replacement remote control systems for existing field equipment.



50% fewer field equipment replacements.

The challenge

CBI's **6800CT** and **6400CT Horizontal Grinders** are the most technologically advanced and powerful on the market, with the capability to grind demolition debris, railroad ties, whole trees, pallets, storm debris, shingles, logs, mulch, slash, and stumps. Each grinder is engineered to meet unique customer specs and requirements for system feedback and control.

As such, the handheld remote-control transmitter used by operators requires specific labeling, buttons, icons, and branding for precise use. Furthermore, these massive and complex machines require system feedback like Engine RPM and Bearing Temperature for safe and effective operation.

As CBI's reliable machinery can last decades in the field, they require a remote-control platform that can be easily retrofitted into existing field equipment with minimal downtime for its end users.

Working together, Scanreco and CBI chose the **Scanreco Rocket Flex** platform. The Rocket Flex platform offers a fully customizable label, LCD screen, and firmware.

The Rocket Flex transmitter features up to 14 one or two-step pushbuttons, performance level "d" (PL d) e-stop, graphic LCD display, and label options available in multi-colors and designs.

CBI and Scanreco engineers worked closely to develop custom firmware to handle system feedback via **Scanreco's G3 CAN Receiver**. In addition to its ability to receive and transmit CAN messages via 2.4 GHz radio frequency, the rugged and reliable receiver also withstands the vibrations and harsh environments of a typical deployment. Furthermore, anywhere a master controller is already present, the G3 CAN receiver can be added to the existing machine controls.

The Scanreco solution

Scanreco Rocket Flex Transmitter with 14 one or two-step pushbuttons, fully customizable overlay, and graphic display. Scanreco G3 Radio Receiver withstands vibrations and harsh environments. Fully customizable and run on 2.4GHz radio frequency.

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Requirements

Customized Label and Operator Interface

Drop-In Technology for Existing Field Equipment

Custom Firmware

Robust System Feedback

Rugged and Reliable Hardware

Solutions



With its ample, yet ergonomic design, the handheld Rocket Flex transmitter label can be customized by combining symbols, text, and branding logos. CBI's current label options are up to eleven different designs.

The Rocket Flex and G3 CAN are designed to be nearly plug-and-play and can be retrofitted into any machine with a pre-existing master controller. Additionally, CBI saves significant time and resources on system installs, with a typical install completed in around 5 minutes.

CBI and Scanreco engineers created and tested completely customized firmware to integrate with its various product lines. CBI can quickly upload and program the units prior to shipment based on customer specs.

CBI requires robust system feedback via the Rocket Flex's programmable LCD Screen. The need for signal strength, battery strength, engine RPM, and bearing temperature results in a graphics-heavy, but still readable user interface in a handheld platform.

CBI demanded functionality with maximum performance in wet, humid, hot, cold and high-debris operational environments. With an operational temperature range of -25°C to +55°C / ~ -15°F to + 130°F and an ingress protection rating of IP65, the Rocket Flex with e-stop and G3 CAN system is Scandinavian-designed to perform in harsh and hostile environments.

Customized and functional systems – the way you want them to be

Scanreco works closely with customers to create fully customized and functional systems.

Continental Biomass Industries (CBI), a business unit within the **Terex Corporation (NYSE: TEX)**, designs and manufacturers horizontal grinders, industrial wood chippers, flail debarkers, screens, stacking conveyors, stationary systems, and attachments that incorporate advanced technology in engines, rotors, hydraulics, and telemetry.

Engineered to minimize downtime, maximize production, and boost ROI, these biomass recovery machines process high volumes of wood waste into valuable end products (such as biomass, mulch, and compost).



A TEREX BRAND

www.terex.com/cbi

CBI's technology advancements have optimized material processing so that recovering and recycling biomass is both profitable and environmentally responsible. CBI's innovations in material processing enable profitability and cost-savings in the recovery and recycling of biomass.

This is Scanreco

- *Leading developer and supplier in radio remote control systems of machines and equipment.*
- *Supplier to leading OEMs and players in a number of different industries.*
- *Development and production take place in close collaboration with the customer to create individual systems with maximum benefit.*
- *About half a million systems sold worldwide.*
- *Scanreco was founded in 1984 in Södertälje, is privately owned and is still run by the founders.*
- *Scanreco has a large global network and subsidiaries in Germany and the USA.*

We are here to help you achieve!

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Questions about this case?

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