

CARBONATOR™ 500

Mobile Air Curtain Carbonizer

The Future of Wood and Vegetative Debris Conversion

The mobile and stationary CARBONATOR is the most advanced, cost-effective and environment-friendly wood debris conversion systems ever built, converting wood and other suitable biomass into a high quality biochar at high throughput rates. Designed to accept trees, brush, stumps and other wood debris as well as C&D and MSW, without grinding or chipping.



CARBONATOR Benefits

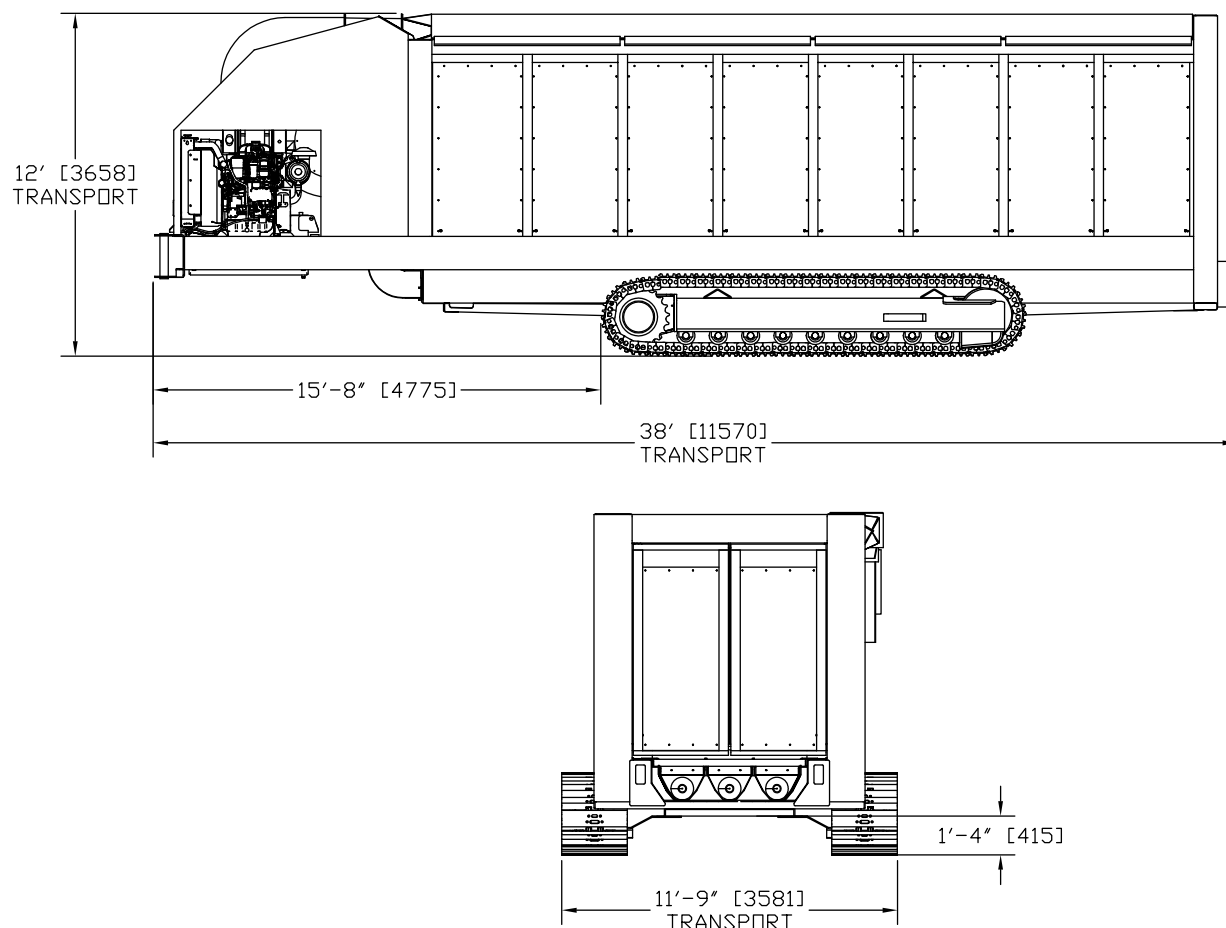
- Designed to provide the largest transportable mobile machine for high sustainable processing capacity and superior end product from suitable feedstock.
- Track mounted to allow for direct re-introduction of high quality biochar to forest or agricultural land where conversion is taking place.
- Designed to be easily moved on common lowboy trailers.
- Highly efficient over chamber air curtain for eliminating smoke and particulate release.
- Pre-heated under air for maximum conversion efficiency.
- Live stream video monitoring of pyrolysis chamber providing operator full visibility for ease of feeding.
- Compliant with current US EPA emissions regulations.
- Extremely low operating cost, simple and easy single person operation.
- Eliminates processing, transportation and disposal costs.
- A natural process that converts biomass with no end market into a high-quality product.



P.O. Box 348 Chester, NH 03036
Phone: (603) 244-7000 www.roi-equipment.com

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CARBONATOR 500 Specifications:

Thermo-Ceramic Panels:

Bolt in easily replaceable panels rated to 1650 degrees C. (3000 degrees F.)

Blower:

Two hydrostatic driven blowers for maximum combustion control and efficiency

Engine:

Caterpillar Acert 3.3/4.4 liter, (124-147hp.)

Tracks:

Berco B5 with two speed motors, 700mm (27.5") wide track pads.

Hydraulic System:

High pressure hydrostatic pumps for tracks and all other functions, 250 liter (55gallon) oil reservoir.

Char Handling System:

Two rear combustion chamber access doors. 3 horizontal ash augers that discharge out the rear of machine. Air cooled char troughs with water injection nozzles for instant quenching of char. Quick interchangeable grates for various size char and easy clean out of non-combustibles.

Electrical System:

IQAN PLC with radio remote control for all functions. Camera mounted on hydraulically operated arm to stream video to monitor in cab of machine feeding.

Total Weight:

Approx. 37,648Kg, (83,000 lbs.)

Fuel Tank:

465 Liters (123 gallons)

Optional:

Heat exchanger for water or oil, ORC electric generating module, Automatic propane ignition system, available stationary with electric drives.



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