

CharBoss® TRAILER-MOUNTED BIOCHAR PROCESSOR

Biochar Production & Clean Wood Waste Disposal



Features of the T26 CharBoss, a revolutionary Patented Biochar Processor:

- Developed under the Cooperative Research and Development Agreement with U.S. Forest Service
- Only towable biochar production machine on the market; street legal with DOT VIN
- Easy operation: enables handloading and utilization of biochar onsite for soil restoration
- Powered by a clean and economical HATZ Tier 4 Turbo Diesel Engine
- Biochar conveyor system and FireBox are powered by integrated hydraulic system
- Patented biochar conveyor system with high efficiency, up to 500lbs of Biochar per hour
- Increase ROI with no pre-processing such as chipping or grinding
- Biochar and ash can be turned back into the soil onsite or collected to be marketed
- Can be deployed in hard to reach locations in forests and on farms
- Environmentally friendly; Federally proven: exceeds EPA regulations for air curtain incinerators
- Designed and manufactured by Air Burners, Inc., the world leader in air curtain burner technologies





T26 CharBoss®

BIOCHAR PROCESSOR SPECIFICATIONS



General: CharBoss T26, a patented self-contained, completely assembled above ground Air Curtain Burner with a refractory lined burn-container that is triple-axle trailer mounted and powered by an onboard Diesel engine. The FireBox is raised and lowered by a hydraulic lift system. Designed for the elimination of forest slash, agricultural vegetative waste, land-clearing debris, green waste, and the creation of Biochar. The onboard automatic system creates Biochar, conveys it out the back of the machine into a small quenching pan. The Biochar is ready for use as a soil additive. T26 is in compliance with the requirements of U.S. EPA 40CFR60. Shipped from the factory street-legal with VIN, completely assembled ready for immediate use.

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|----|---------------------|--|--|
| 1 | Power | Three cylinder liquid cooled Diesel engine, 24.6 HP (HATZ 3H50T or equivalent), full enclosure; security locks around power source; Emission certified U.S. EPA Tier 4. | |
| 2 | Firebox | 4 in. (102 mm) thick side walls; Refractory panels filled with proprietary thermal-ceramic material cast into steel trays; Panels kiln dried before assembly; Firebox and transport system are raised and lowered by hydraulic actuators; The FireBox has a conveyor belt to remove the biochar into a quenching pan. | |
| 3 | Running Gear | Patented trailer design includes a fully welded steel frame, triple torsion axles and heavy duty tires; Self-adjusting electric brakes on all wheels; Break-away system; Heavy duty adjustable hitch, pintle or ball type (2 ⁵ / ₁₆ in. (58.75 mm) for towing; Mechanical jack stand; Standard trailer lighting package. | |
| 4 | Instrument Panel | Key switch, hydraulic system controls and gauges, Digital engine gauges including tachometer, hour meter, fuel gauge, oil pressure and water temperature indicators with safety shutdown features; Lockable hatches. | |
| 5 | Air Curtain | Hydraulically driven custom air fan; Steel manifold welded in position. | |
| 6 | Fuel Tank | 20 gal. (76 L) fuel tank capacity allows for approximately 18 hr. of run time. | |
| 7 | Hydraulics | Hydraulic rams lower the firebox for operation and raise it for transport; The biochar system is hydraulically powered, it creates the biochar and deliveries it to the rear quenching device. | |
| 8 | Biochar | Biochar production: up to 500 lbs. per hour. (See Note) | |
| 9 | Average Through-put | Approx. 1 ton per hour of forest slash, (See Note). | |
| 10 | Fuel Consumption | Approx. 1.1 gal/hr. (4.2 L/hr.) Ultra Low Sulfur (ULSD) Diesel Fuel. | |
| 11 | Water | Quenching biochar requires approx. 12 gal/hr. | |
| 12 | Weight | 17,500 lb. (7900 kg) Tongue Weight: 1,400 lb. (635 kg) | |
| 13 | Dimensions | Overall Size L × W × H | FireBox L × W × H |
| | | 22' × 7' 8" × 6' 8" 6.7 m × 2.3 m × 2.0 m | 12' × 4' × 4' 3.7 m × 1.2 m × 1.2 m |

Note:

Achievable through-put depends on several variables, especially the nature of the waste material, the burn chamber temperature and the loading rate. All weights and dimensions are approximate and metric conversions are rounded. Specifications are subject to change without notice.
The "CharBoss" is offered as "Portable Non-self-propelled Forestry/Agricultural Equipment" for only incidental On-Road use.



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