The 6050 carbonator is an advanced, cost-effective and environmentally friendly wood debris conversion system. Wood debris volume is reduced by over 90% through a carbon sequestration process.

**BENEFITS AND ADVANTAGES:**

- **Eco-friendly method to reduce wood debris**
  - Reduces wood debris volume onsite by over 90%
  - Accepts logs, limbs, brush, stumps, yard waste, pallets, clean lumber and other clean wood-based material

- **High processing capacity**
  - High throughput rate
  - No material pre-processing required
  - Large blower recirculates air for re-combustion

- **Cost-effective solution**
  - Reduces debris transportation and disposal costs
  - Low operating cost with single person operation

- **Easy mobility within site and from site-to-site**
  - Simple remote control drive system
  - Track mounted to effortlessly maneuver onsite
  - Easily transported from site-to-site

- **Operator friendly with excellent service access**
  - Live stream video provides full visibility for feeding
  - Removable grate for easy cleaning of non-combustibles
  - Clear access to engine and daily service points

- **Carbon-based output**
  - Often referred to as biochar
  - Sequesters the captured carbon
Remote control functions for easy operation.

Augers and quenching system.

Optional conveyor system for output collection.

No grinding or chipping required.

6050 CARBONATOR

COST EFFECTIVE REDUCTION OF WOOD DEBRIS

- High processing capacity
- Low operating cost
- Operator friendly
- Easy mobility
- Eco-friendly solution
• Forestry and land clearing
• Construction and demolition
• Primary and secondary mill residue
• Agriculture

Large feed area with adjustable camera system.

Live stream video monitoring.

Wood debris reduced by over 90%
**DIMENSIONS**

- **LENGTH**: 12,190 mm (480 in)
- **WIDTH**: 3,610 mm (142 in)
- **HEIGHT**: 3,660 mm (144 in)
- **GROUND CLEARANCE**: 405 mm (16 in)
- **WEIGHT**: 41,730 kg (92,000 lb)

**POWER**

- **ENGINE Tier 4f**: Caterpillar® C4.4 110 kW (148 hp) @ 2,200 rpm
- **ENGINE Tier 2**: Caterpillar® C4.4 96 kW (129 hp) @ 2,200 rpm

**COOLING**

- Aluminum side-by-side radiator and charge air cooler, rear fuel cooler; Removable intake debris screen

**FAN**

- Suction fan, belt driven off engine crankshaft

**FUEL CAPACITY**

- 473 L (125 US gal)

**DEF capacity**

- 38 L (10 US gal)

**HYDRAULIC SYSTEM**

- **PUMP, MAIN**: Piston
- **PUMP, BLOWERS**: Piston
- **RESERVOIR**: 290 L (77 US gal)
- **FILTRATION**: (5) Spin-on, 7 micron full flow; (1) Water absorbing

**UNDERCARRIAGE**

- **TRACK FRAMES**: 5 Series, heavy-duty
- **FINAL DRIVE**: (2) Piston motors with brake valves - Two-speed
- **FRONT IDLER**: Hydraulic track adjuster; Spring shock absorber
- **SLIDES, UPPER**: Replaceable
- **ROLLERS, LOWER**: (9) D5 single/double flange tractor type
- **TRACK SHOE**: 700 mm (28 in) triple grouser

**CARBONIZING SYSTEM**

- **ENCLOSURE**: (20) Replaceable thermo-ceramic panels - Rated to 1,650°C (3,000°F)
- **AIR SUPPLY**: (2) Hydraulic driven fans, over-air and under-air
- **MATERIAL EXTRACTION**: (3) Water cooled augers with continuous quenching
- **COOLING**: Hydraulic motors with chain drive

**ELECTRICAL**

- **BATTERY**: (2) 12 v
- **ALTERNATOR**: 100 amp, 12 v
- **SYSTEM VOLTAGE**: 24 v

**OPERATOR CONTROLS**

- Electronic control system with colour LCD display screen interface for machine monitoring and function adjustment
- Radio remote control for all machine functions
- Camera mounted on hydraulic arm for loading and combustion area sightline

**OPTIONAL EQUIPMENT**

- Mobile quenching auger
- Portable quenching conveyor with metal separation

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**6050 CARBONATOR**

All engine power values are quoted at net power, as per SAE J1349.

Tigercat reserves the right to amend these specifications at any time without notice. Weights and dimensions may vary subject to machine options and configurations. For the most current specifications please refer to the Tigercat website or mobile app. Tigercat products may be covered by one or more of the following US or Canadian patents, or corresponding patents in other countries. Refer to virtual patent markings: www.tigercat.com/patents.