Tech Update

Bandit Industries

Bandit’s expansive line of whole tree chippers are proven, rugged units that will provide years of dependable service. These units make a dimensional end product that can be used for wood energy power plants. Whether you are producing 3 or 30 chip van loads a day, Bandit has a whole tree chipper to meet your needs. Eight models are available to choose from including three disc-style and 5 drum-style chippers.

If your operation is in need of a grinder, Bandit has a family of Beasts that are practical machines for turning unwanted wasted into usable end products. The cuttermills inside these units cut material apart versus the beating action of traditional grinders. The difference is best explained by comparing an axe to a sledgehammer. The Beast line includes four towable and two track grinders. www.banditindustries.com

CBI

Continental Biomass Industries, Inc., manufacturer of the Magnum Force Series, has introduced the latest addition to its powerful product line — the ChipMax 484.

Compact, yet extremely productive, the ChipMax 484 is a rugged machine. It features two chipper rotor options, allowing you to go from making high quality fuel chips, custom sized from 12 to 25 mm to “micro-chips” from 2 to 12 mm. Adding to its versatility, the ChipMax is available as a portable (pintle hook or 5th wheel mounting hitch), track, or truck-mounted unit.

The hydraulically pivoting chip discharge chute facilitates top or end loading of chip trailers. The discharge chute has a chip deflector that is hydraulically actuated into position when top loading. The ChipMax 484 comes with a powerful CAT Model C-18, 765-HP diesel engine. To further its unique design, the PT Tech PTO and hydraulic engagement replaces the need for a clutch. The radio remote control runs all vital functions of the machine. Whether it’s a backyard job or a remote location, operators will experience superior uptime and reliability. www.cbi-inc.com.

CW

CW has been building custom diesel and electric powered HogZilla’s for decades. CW also manufactures 14 standard top of the line HogZilla models ranging from 565-2,000 HP, including self-propelled track driven and self-loading units. Most configurations include tub and horizontal feed units with many cost saving options. Optional thrown object restraint and tire processing packages available for most portable and stationary tub grinders.

Maneuverability of a HogZilla self-propelled track driven unit is both superior and cost effective. One operator can run HogZilla from the loader or excavator cab by remote control, saving you money.

HogZilla track units can move through difficult and soft terrain and allow grinding in wet weather. The units eliminate building roads to get the grinder moved in to a job site, eliminate towing a truck and grinder on the job site and the operator can position the grinder for maximum production.
HogZilla grinders handle tough jobs and provide the exceptional production rates for solid waste reduction, wood recycling, land clearing, construction demolition, mulch production, tire processing, and other tough grinding applications. www.hogzilla.com.

**DuraTech Industries**

DuraTech has taken the grinding technology of its massive tub and horizontal grinders and harnessed it for use in the TC-12, its new 12-inch tree chipper. With a 122 HP CAT C4.4 diesel engine and PT Tech clutch, the powerful TC-12 can crush limbs and logs up to 12 inches in diameter.

The TC-12 features a spring-loaded feed wheel with adjustable down pressure, optional height sensor and optional hydraulic gathering winch. The hydraulic two-drum system feeds the heavy-duty chipper disc.

This high-powered chipper discharges debris through a chute that rotates 360 degrees. The manual chip deflector allows for complete control of the discharged material.

The chipper has multiple safety features like the innovative hopper safety light bars with easy and instant shut down of the feed wheels, along with two E-stop switches, a disc hood closed proximity switch and breakaway brake switch.

“Safety is a major concern,” said Al Goehring of DuraTech Industries. “The precautions installed allow the users to operate the machine safely.”

The TC-12 is available with a pintle or ball hitch and can be towed. The chipper measures 79 inches wide and 208 inches long. www.duratechindustries.net

**Fecon**

Fecon’s FCM22 is a 22-inch capacity chipping module. Designed to customize almost any chipping operation, the FCM22 is a great option both in and out of the woods. Features like load sensing hydraulics and an IQAN electrical system make this chipper one of the best in chipping technology, with an entry level investment. The FCM22 is a 6-knife drum style chipper that makes a consistent and desirable biomass product.

There are many options in carriers and trailers on which to mount the FCM22, including: new and used log forwarders; tracked vehicles; log trailers; de-limber trailers; log trucks; and flat bed trucks. Fecon also offers complete turnkey mounting packages to get you chipping with your own unique chipping system.

The 365 HP engine allows production rates of up to 40 tons per hour and can densely pack chips into open top chip vans, collection wagons or roll off containers maximizing loads and profits.

Mounted on a trailer, with or without a loader, the FCM22 becomes a productive part of a stationary chipping operation. Mounted on a forwarder or tracked vehicle the FCM22 goes to the woods for biomass collection as well as, right of way chipping, pipeline clearing, and land clearing. www.fecon.com
Morbark

Morbark offers a full line of flails in a range of sizes and in several configurations — with two, three or four flails drum, one or two engines, cab and loader or no cab and loader, portable or stationary, stand alone or combination unit diesel or electric powered. You can also choose from a wide variety of options.

All models are aggressive, highly productive, and engineered to give you the power and features you need to maximize output and enhance profitability.

The powerful multi-wheel hydraulic feed system provides a highly efficient feed, crushing limbs and tops for maximum production rates. It controls the wood, feeding it to the chipper at a constant rate and making uniform, high-quality chips.

Morbark flails can attain bark contents as low as 0.5% or lower, making them an ideal choice for serving even those pulp and paper markets that demand the very highest quality.

All combination Flails feature Morbark’s hydraulic air curtain. This high-volume, hydraulically-driven fan is mounted just above the chipper infeed spout opening. It’s designed to clean the top of the stem and the gap formed between two or more stems of any loose bark, slivers and fines that may ride into the chipper. www.morbark.com

Norco Equipment

Norco Equipment offers a full line of state-of-the-art, forestry and bioenergy equipment, including Dynamic — known for the patented Cone-Head drum. The portable, hand-fed Dynamic chippers are simple to use and the distinct cutting drum produces consistent chip size.

The Dynamic biomass chipper line offers chippers up to 1,000 HP. The 2010 Dynamic CH 585B features a proven design with improved service, bolt-in wear plates, 8 knife drum, and a standard hydraulic clutch for ease of use and longer life expectancy. The exclusive Cone-Head drum efficiently “slices” woody biomass, instead of traditional drum-style chipper cutting patterns. Dynamic’s newest biomass chipper is the largest Cone-Head ever built, the CH 885, with one of the largest in-feed decks in its class.

Dynamic and Norco Equipment introduced a mid-size horizontal grinder in 2010, and will expand the horizontal line to larger and smaller units in 2011. The Dynamic 5240 features a fuel-efficient 426 HP Volvo engine and has been proven in the field in markets such as regrind in high production mulch yards, pallet recycling, and land clearing applications. Screen change in the Dynamic 5240 can be done in under 15 minutes by one service technician. www.norcoequipment.com

Performance Construction Equipment Inc.

The DW 3060SA Buffalo Shredder features a central-axis trailer chassis and a 430 HP Mercedez-Benz diesel motor. The rugged machine is equipped with a fluid coupling power transfer, hydraulic cooling system and reversing fan.

Operators will appreciate the 10-foot shaft length, with a 24-inch diameter (not including tips). The rear conveyor is 16 feet in length and 4 feet wide.
Other features include an antimagnetic central part of the rear conveyor. An overband magnet and a heavy-duty comb are placed into position by hydraulic arms with nitrogen-filled accumulators allowing the comb to break away and reposition during operation, preventing uncrushable damage. www.pcesales.com

**Peterson Pacific Corporation**

Peterson’s innovative 4300 series drum chippers are ideal for high-volume biomass producers who demand high quality machine construction, easy serviceability, and consistent product coming out the end of the spout.

The 4300 series machines are powered by a Caterpillar C18 engine, available up to 765 HP. The chipper utilizes a 36-inch diameter by 40-inch wide drum. It has optional material sizing bars to minimize oversize twigs and branches in the chips, and a chip accelerator to pack the van with more material.

The 4310, a tracked version of the 4300, has a shorter overall length, and 28 inches of ground clearance. The 4310 was designed for chipping operations requiring high production and frequent moves between jobs.

Both machines feature a sloped feed deck for ease of feeding the chipper, and an adaptive feed control to maintain chip quality and engine RPM.

To see the Peterson 4300-series machine in action call or visit www.petersoncorp.com.

**Rawlings**

For over 35 years Rawlings has designed and manufactured highly productive and cost effective wood waste recovery systems. The company offers these machines in stationary and portable units with both electric and diesel models available in various sizes to meet the customer’s exact specifications. The Rawlings HZX is a heavy-duty wood hog can process material of any length to the customer’s exact specifications.

The simplicity of the Rawlings rugged design with the Super Hi Inertia rotor comes complete with interchangeable Roc Wear Striker Bit system. All internal liners and sizing grates are bolted in eliminating high maintenance costs. This allows for less cost to operate and maintain. www.wastewoodhogs.com

**Rayco**

Rayco customers’ asked for a horizontal grinder that made processing materials such as wood chips, lumber scraps, pallets, logging slash and green waste easier and faster than ever — without breaking the bank. In response, it designed the RH1754-240, which boasts a powerful 240 HP Cummins 6.7 L diesel engine, a longer discharge conveyor, and other enhancements to maximize throughput while keeping operating costs at a minimum.

You can pile chips higher, or fill open-top trailers, with a discharge conveyor that reaches over 12 feet high. Screens can be changed in minutes allowing the operator to size product to his exact specifications. Variable speed control on both infeed and discharge conveyors can be tailored to virtually any grinding application.
The economical machine also features: radio remote controls; a magnetic head pulley to separate nails and light metals; a swing-away fuel tank for easy screen changes in less than 10 minutes; a large radiator with removable debris screen and reversing fan; and it’s available on tracks. www.raycomfg.com

**Rotochopper**

Rotochopper, Inc. manufacturers an extensive lineup of grinding equipment for converting low-grade waste materials into biomass fuels, colored mulch, animal bedding, and a wide range of other finished products.

For over twenty years, the company has been helping customers develop and foster new opportunities for low-value materials by providing innovative equipment solutions, including horizontal grinders and wood chip processors. Designed for optimal horsepower efficiency, Rotochopper grinders allow operators to consistently deliver “perfect in one pass” finished products at low operating costs.

The new B-66 horizontal grinder with tracks and dolly combines the timesaving benefits of crawler tracks with the convenience of rubber tires for highway transport. The transport dolly offers the same ground clearance as a lowbed trailer and can be quickly uncoupled from the grinder at the jobsite without special tools. To return to transport mode, the operator simply drives the B-66 into the dolly using the crawler tracks. Domed guide rails allow for easy alignment during re-coupling. Hydraulically actuated tapered locking pins correct for misalignment while securing the dolly.

Like every Rotochopper grinder, the B-66 is designed with unique features that reduce downtime and hassle, including a hydraulic screen change system and replaceable mount rotor. www.rotochopper.com

**Vermeer**

The Vermeer WC2300 whole tree chipper is powered by a 440 HP C-13 CAT diesel engine that allows for maximum output while consuming less fuel than higher-powered machines.

A 6-degree slope of the infeed table lowers the “break-over” point where long material first contacts the machine reducing the likelihood of limbs or tree canopy from snagging on the end of the machine.

The infeed system features a variable-speed; dual-infeed conveyor chains, a conveyor head pulley with integral grip bars and an aggressive large-diameter infeed roller with crush capability. These design elements provide efficient feeding of difficult material types, reducing the number of times an operator has to handle the material.

Two drum knife options are available — double-edged or babbitted single-edge cutter knives — allowing the operator to select the type of knife that best suits their operation, jobsite or customer requirements.

A compact design allows for more maneuverability and easier repositioning of the machine on the jobsite, especially with the grapple grip collar area on the WC2300 tongue. Machine functions can be controlled remotely using a handheld remote control that also provides real-time machine performance data to aid the operator in maximizing productivity by monitoring and adjusting settings. www.vermeer.com