

2012 Chipper & Grinder Guide

Please note that *Canadian Biomass* has not verified any of the claims made by the companies listed below regarding the technical aspects or capabilities of their products.

ACROWOOD

ACROWOOD 84" SLANT DISC CHIPPER

Acrowood was an early proponent of mini-chip production; having an 84" Slant Disc Chipper in operation cutting 9 mm long chips at an Irish pellet plant since 2007. The Acrowood Slant Disc Chipper can produce mini-chips as short as 1/4" chip length with no feedworks required. This unique chipper design has successfully chipped a wide variety of hardwood and softwood log species, both green and air-dried, with excellent results. The horizontal feed design can be configured with back or overhead discharge and includes an integral motor mount.



ANDRITZ

ANDRITZ HHQ HORIZONTALLY FED CHIPPER

With the current industry focus on pelleting and bio-Energy, Andritz had the opportunity to work with its clients to produce the ideal chip for these applications. It was found that traditional wood chips produced for pulp and paper are a too large for optimum use in pelleting applications. Typically chips going to a hammermill are better sized at about 2 mm thick and 8.5 mm long.



The HHQ horizontally fed chipper not only offers high chip quality due to advanced chipping geometry, but it also offers flexibility for changing process needs and chip size requirements.

BANDIT INDUSTRIES

BANDIT SVC CHIPPER SERIES

The Bandit SVC is a drum-style chipper designed for global biomass markets, where specifically sized wood chips are often required. Using various interchangeable screen sizes in the drum housing, the SVC can produce a variety of chip sizes to serve the needs of virtually any user. It also features a unique top-load discharge chute to forcibly load open-top trailers, and utilizes a vacuum to maximize the flow rate of material going through the machine. The SVC will be available as a series of machines, with production slated to begin in 2012.



BRUKS

BRUKS 805 MOBILE CHIPPER

This forwarder-mounted chipper is a unique concept, and the only true in-woods chipper with a dumpable container capable of holding 7 tons of chips. The machine goes directly to the wood and does not rely on any peripheral equipment (skidders, loaders, etc.) to produce biomass chips from whole trees in a thinning operation, or slash from a logging site. Once the container is full, it is capable of dumping into an open-top trailer or staged container in less than 30 seconds. The Bruks concept is more flexible, and requires less equipment, fuel and labour, than conventional chipping operations.



For Sale

Wood Pellet Manufacturing Facility (Particleboard Plant Conversion)



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Pellet Presses & finished pellet handling Equipment.

Price: CAD \$10,000,000

Contact Owner: FireLogic Inc.

Attn George Hasenberger

Tel: 613 332 4200 ext 212 • Cell: 613 242 1612

Email : info@firelogic.ca

BRUNETTE INDUSTRIES

BRUNETTE WHOLE-LOG MICRO-CHIPPER

The Brunette Whole-Log Micro-Chipper is a horizontal-feed chipper that can process up to a 24" log and produce micro-chips consistent in thickness and size using powered feedworks controls and a feed of single logs, or multiple stems and branches. With a 40" wide throat, it can process a variety of materials with ease. It features a hard surfaced anvil with a breakaway support frame for protection from foreign materials, and the rear access platform makes knife maintenance simple and safe. The Chipper includes a common subframe for a single lift installation.



BÜHLER INC.

BÜHLER GRANULEX HAMMER MILL DFZP

Bühler's high-capacity hammermill, the Granulex, has a heavy-duty design and ease of maintenance to minimize downtime, while maximizing productivity. The Granulex is designed to finely grind wood and pellets for co-firing. It includes a powerful 500 hp (400 kW) motor for high-capacity grinding and the largest screen area of any 500 hp hammermill to reduce wear. Additionally, the screens and hammers are designed so a single person can replace them in less than 30 minutes. Sliding doors allow fast and easy maintenance, and the closed machine housing and easy-to-clean, plain surfaces prevent dust settlements.



CONTINENTAL BIOMASS INDUSTRIES

CBI CHIPMAX 484

CBI's ChipMax 484 has two rotor options, so it can make high-quality custom chips from 12-25 mm or micro-chips from 4-12 mm. These "micro-chips" produce a consistent fibre length that reduces production cost and improves small boiler function. The adjustable chip discharge chute facilitates top or end loading of trailers, and also features both a hydraulic blower for stronger chip discharge, which increases power when needed, and an actuated chip deflector. The ChipMax is available as a portable [pintle hook or fifth wheel mounting hitch], track, or truck-mounted unit, and is road legal in both width and weight.



CW MILL

HOGZILLA TRACK MOUNTED HTC-1462T

CW Mill Equipment Co. has been building custom diesel- and electric-powered HogZilla tub and horizontal feed units for decades, and manufactures 14 standard top-of-the-line HogZillas ranging from 565 to 2000 hp, including self-propelled track-driven and self-loading units. Thrown object restraint and tire-processing packages options are available.

HogZillas can be used for a wide variety of jobs, such as solid waste reduction, wood recycling, land clearing, construction demolition, mulch production, tire processing and other tough grinding applications.



DIAMONDZ

DIAMOND Z DZH4000 CHIPPER SERIES

The 75,000 to 88,000 lb Diamond Z DZH4000 chippers are large enough to get the job done but not too big to move conveniently and cost effectively, even for

smaller jobs. The fuel-saving Caterpillar C18 700 and 765 hp engines provide high horsepower and torque, and have allowed this machine to compete with much higher horsepower models. All Diamond Z models are offered with Tier 2-3 and 4 interim emission ratings with track-, wheel- and stationary-mounted units available, either diesel or electric powered.



DOPPSTADT

The Doppstadt DH series DH-610 and DH-910 whole-tree chippers and grinders are the perfect solution for processing softwood, hardwood, slash and other de-limbed waste material. They produce a shaved chip and incorporate a sizing screen to control output size – creating an exact product for biofuel consumption.

All DH series whole-tree chippers are standard-equipped with fluid coupling power transfer to eliminate clutch failure, hydraulically adjusted blower for ease of loading, and hydraulic door access for easy blade changes. With the standard electric-hydraulic pump, many system functions can be run for maintenance without engaging the DaimlerChrysler OM502 LA engine.



DURATECH

DURATECH TC-12 CHIPPER

DuraTech has taken the grinding technology of its massive tub and horizontal grinders and harnessed it for use in the TC-12, a 12" tree chipper. With a 122 hp (91 kW) CAT C4.4 diesel engine and PT Tech clutch, it grinds limbs and logs up to 12" in diameter. The TC-12 features a spring-loaded feed wheel with adjustable down pressure, an optional height sensor that automatically adjusts the feed roller to size, an optional hydraulic gathering winch and innovative hopper safety light bars with easy and instant shutdown of the feed wheels.

KOMPTECH USA INC.

From waste wood and green waste, to shingles and C&D, and from fine to coarse, and everything in between – the CRAMBO low-speed, high-torque shredder from Komptech can do it all, with low fuel and wear costs. Komptech is a leading international supplier of technology, machines and systems for the mechanical and biological treatment of solid waste and biomass.

MORBARK

MORBARK 3800XL WOOD HOG

The new Morbark 3800XL Wood Hog is designed to be the best horizontal grinder on the market, and can dramatically increase your production capacity and operating efficiency. A larger, more aggressive hammermill and independent drive motors on the feed wheel and belt chain result in a continuous feed with higher production, greater fuel efficiency, and a more consistent end product.



NORCO & DYNAMIC

DYNAMIC 885 CHIPPER

The new Dynamic 885 Chipper from Norco Equipment is built for long shifts of full-tree and limb processing, which allows for high-volume biomass production. Utilizing the

patented Conehead cutting system, the slicing action of its eight-knife drum has proven to achieve 40% higher efficiency than conventional flat-faced drums. With ample power, high capacity and a large throat opening, the Dynamic 885 is specified to produce in the range of 12-15 loads per day.



PETERSON

The 4300 drum chipper is for high volume biomass producers with a wide variety of feed material, from logs up to 24 inches (61 cm) in diameter, to brush and small feed stock. Powered by a C18 Caterpillar engine, the 4300 is available in two power ratings- 630 and 765 horsepower (470 and 570 kW).



The chipper utilizes a 36 inch diameter by 44-3/4 inch wide (91 by 114 cm) drum with a sloped feed deck. The optional material sizing bars and chip accelerator minimize oversize twigs and branches in the chips, and help ensure tight packing and full vans.

PRECISION HUSKY

PRECISION HUSKY CORPORATION'S NEWEST PRODUCT, THE DC-4042 BIOMASS DRUM

Chipper, has a 42 inch opening and is powered by either a Cummins or CAT engine (up to 700 hp). The 45,000-pound chipper can produce more than 75 tons per hour with either a two or four knife 40" diameter drum.



Precision Husky Corporation now manufactures 27 models of chippers/grinders that are used in the biomass industry, as well as sawmills, wood rooms and paper mills.

RAWLINGS

The Rawlings rotary wood hog/Waste Wood Grinders easily process stringy barks (Cedar, Cypress, Poplar, Redwood), large log chunks, lily pads, railroad ties, demolition debris, rock contaminated log yard residues and other bulky waste. Available in a range of sizes to meet any need, these machines produce boiler ready fuel, mulch, decorative bark, pellet stock and more.



Rawlings Rotors feature the highest mass moment inertia in the industry and can process log chunks, slivers/overs and miscellaneous metal machine parts that arrive in your biomass feedstock, and do not require daily maintenance.

RAYCO

RAYCO'S SUPER JR RG1625A SJRS/ RG1635 SJRS STUMP CUTTERS

Rayco's new series of compact stump cutters, the Super Jr, now have swing-out operator control stations. These compact and self-propelled stump cutters are now available with three-position swing-out stations to allow better visibility while cutting and easier travel



4600 Electric Stationary Grinder



4600 Electric Portable Horizontal Grinder



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through gates. Novice operators will also have an easier time operating the swing-out control models efficiently, making this model perfect for rental stores. For travel through gates, the controls swing in line with the machine, so the operator can more easily drive through narrow openings. There are two grinding positions to allow operators the ability to select the position that better suits the job conditions.

ROTOCHOPPER INC.

Rotochopper, Inc. manufactures innovative grinding equipment for converting raw wood waste into biomass fuel products. Known for its superior particle size control, Rotochopper horizontal grinders are available from 150 to 875 horsepower with diesel or electric power. Electric-powered Rotochopper grinders are purpose-built for stationary operation, while diesel-powered models are available in portable, track, or track and highway dolly configurations. Rotochopper two-stage fine grinding systems combine horizontal grinders with in-line hammermills to produce short-fiber fuels in a single pass.



VERMEER

Vermeer is one of the most recognized names serving the tree care, wood waste processing and organic recycling markets, offering a full line-up of brush chippers, stump cutters, tree spades, horizontal and tub grinders, trammel screens and compost turners. From residual tree care and line-clearing crews to contracted and municipal waste operations, Vermeer equipment is ready with a line-up ranging



from 27 horsepower (20kW) to 1000 horsepower (746kW). Vermeer products are exclusively sold and supported through a global network of independently owned and authorized dealerships.

WEST SALEM MACHINERY

WEST SALEM MACHINERY'S BIOMASS SUPER SHREDDER MODEL 4888S

WSM Biomass Super Shredders combine the efficiency of a high-speed mill with the durability of a heavy-duty grinder. With rotor widths from 60"-88" (1524 mm x 2235 mm), these deliver higher tip speed for consistent fibre sizing, increased screen area and flexible/interchangeable tooling.



The largest model, the 4888S, features a 48" by 88" (1219 mm x 2235 mm) long rotor, and operates with 400-800 hp to convert high volumes of pre-processed biomass materials.

Super Shredders include AR interior wear liners, modular sizing screens, dual pivoting hydraulic housing, and reversible/replaceable hammer tips for reduced maintenance and operating costs.

W.H.O MANUFACTURING

W.H.O. Manufacturing Company in Lamar, Colorado, has made tub grinders used in the waste wood and agricultural industries for more than 65 years. Company founder, W. H. Oberwortman, built the first tub grinder in 1946, and the family company still owns the original patent.

Today's grinders are larger with diesel-powered units ranging from 350 to 1200 hp. The grinders are available in stationary electric and PTO models, and incorporate hydraulic and electronic controls. Options include remote controls, radial stacking conveyors, magnetic head pulleys, knuckleboom loaders and more.

IBCE BACK IN PRINCE GEORGE

International Bioenergy Conference and Exhibition has named *Canadian Biomass* magazine as the exclusive media partner for the 5th biennial event. Slated for June 13-15, 2012, in Prince George, British Columbia, IBCE is quickly becoming Canada's premiere biomass and bioenergy educational event.

"We have participated in past events, and were very impressed with the conference quality, the international audience, and the technology on display," said *Canadian Biomass* group publisher and editorial director Scott Jamieson.

"We have created one of Canada's key forums for bioenergy experts, business and government leaders to assemble to discuss the latest in bioenergy technology, processes and policies," said conference chairman Don Zurowski. "This partnership with Canada's leading publication devoted to bioenergy will support the growth of a strong, cohesive bioenergy sector and economy in Canada."

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