

# Chipper Roundup

**Not just chips off the old block, but some new ones too!**

Our annual chipper review seems to get larger and larger, as wood chippers become an essential piece of kit. Whatever your needs, from simply wanting to reduce the volume of green waste through to mass fuel production, there will be a machine to suit.

Tracked, trailed or mounted, pto or engine driven, crane or hand fed, narrow access – it appears the options are endless!

## ArborEater

ArborEater's chipper range has expanded, and to make it easier to select the most appropriate machine they have defined the machinery mostly used by arborists and tree surgery contractors as the PZ range. All brushwood chipper models prefixed H and PTH are specifically designed to produce heating woodchip, having secondary cutting systems to ensure a consistent quality of chip.

With 8 models in the PZ range, from the 4¼ inch, pto-driven PZ 110T up to the PZ 250MD, a 9¾ inch capacity twin feed diesel powered chipper, they have a solution to meet most needs.

The H range consists of 2 models, the 8-inch 780 and the 12-inch 980. Both machines are available as pto or engine driven.

The PTH drum chipper range is designed for mass production of consistent quality heating/biomass chips and large scale forestry clearance. Screened woodchip is blown by fan to the discharge chute for

efficient loading. Options include feeding cranes, tracks etc.

The PTH range starts from 370mm capacity (14½ inches) and may be tractor powered or mounted on a truck.

ArborEater 01273 832009  
www.arboreaters.co.uk

## Bandit

Bandit is now seeing growth in the biomass fuel production market. The Bandit conventional whole tree chipper has engine options from 200 to 1200hp, infeed capacities up to 90cm, trailed, tracked or mounted versions, infeed and discharge options meaning there should be a configuration for everyone!

The Bandit Beast Recycler, when configured as a chipper, provides a versatile machine that can be simply adapted to make the most of changes in the dynamic biomass fuel market. The interchangeable knife system and integral screens mean that the Beast range is capable of processing clean roundwood or energy crops one day and wood waste or stumps the next, processed to the specification determined by the end user. Infeed is via a conveyor system which can be up to 2 metres wide.

Two recent additions to the range are the model 490 gravity-fed machine and the model 990 drum. Although very different, both fill immediate needs for compact units to serve the urban arboricultural contractor. The 990 offers true 12" chipping capacity, and is a perfect companion for any 3.5 to 7 tonne



Fuelwood's HM8-500-K fitted with Mowi 400 crane.

truck.

The 490 is a new departure for Bandit, a pedestrian-movable narrow machine, ideally suited for difficult access, domestic pruning jobs, especially those where arisings can remain *in situ*.

Global Recycling Solutions  
01636 594360  
www.globalrecycling.eu

## Doppstadt

The heavy rotor of the Doppstadt DH series of precision chippers consists of a full steel construction with high-quality chipping knives. The DH offers the possibility to process logs and residual wood – maximum diameter 900mm (2' 11") in case of softwood and 680mm (2' 3") in case of hardwood – into defined chip sizes.

The DH chippers are available on central-axle trailer chassis, semi-trailer chassis or on tracks for self-propelled drive.

The chipping blades can easily be adjusted from the outside using a blade adjustment gauge. The large screening basket and the rigid cutter bar are designed to achieve a homogeneous product. Power is

transmitted to the shredding drum by a V-belt drive.

The size of the chips can quickly be regulated by changing the material transport speed or by choosing the suitable screening basket.

All the control elements are centralised in one control panel. By means of a remote control the most important functions can be controlled from the loader operator.

The chips are discharged by an integrated impeller blower with cast range adjustment. The combination radiator (water, charge air, oil cooler) is reversible thus permitting an automatic cleaning at regular intervals.

Large, smooth-running doors and centralised lubrication points facilitate maintenance.

Blue Group 0845 217 8755  
www.bluegroup.co.uk

## Europe Recycling Equipment

L&K Recycling is the UK dealer for Dutch based company Europe Recycling Equipment BV.

Europe Recycling developed their own range of pto and engine driven chippers and the range currently consists of four models.



(Left) New from Bandit, the 990XP, 12" capacity, is a compact chipper with a 24" diameter drum. Engine options up to 86hp are available. (Centre) The DH series from Doppstadt is also available on tracks. (Right) The top of the range C1175 drum chipper from Europe Recycling.

The 12" DC940 disc chipper has been available in Holland for a number of years and is well suited to site clearance work. Chip quality has proved excellent and the machine is compact, strong and durable.

The C950 and C1060 drum chippers are available in a range of configurations from 140hp John Deere engined single axle units up to a 275hp tandem axle model. Both are also available with a pto option, either three-point linkage mounted or towed, and can be specified as crane or hand fed.

Topping the range is the C1175 24" drum chipper with a capacity of approximately 120 to 180m<sup>3</sup> per hour when fitted with the C13 475hp Caterpillar engine or with the C18 630HP Caterpillar engine. This machine is crane fed only and features a triple chain infeed (foldable for transport) and remote control hydraulic clutch, quick change screens, excellent service access and a four-way turnable counter knife. As with the other drum chippers it is also available with a pto drive or as a tracked unit.

All of the drum chippers feature an interchangeable screen with a long piece protection system ensuring that they can be set up for G30 or G50 specification chip production. As the chip can lose speed when passing through the screen the chippers also feature an in-built fan on the end of the drum to allow the chip to be blown into a trailer.

As all of the chippers are designed and built in Holland the build can be customised to include customers' existing cranes, fitment to forwarders, or uprated drivelines to suit larger capacity tractors.

For more information contact Tim Garrett 07500 706663 or Holger Shael 07951 004985.

L&K Recycling  
www.europe-rec.com

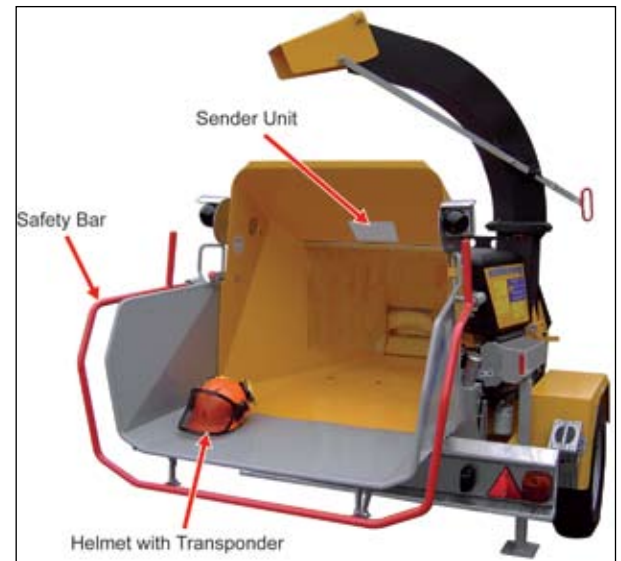
#### Farmi

Smallest in the range from Farmi Forest is the CH160 single disc chipper with a 6-inch capacity, designed for small horsepower tractors and skidsteer units. The CH160 can handle trunks up to 160mm in diameter and is especially suitable for landscape chipping (tree tops, spruce twigs and other branches, saplings, Christmas trees etc). The machine is available with manual feed chute (F) or with hydraulic feed (HF), with a long discharge chute and with a belt transmission (THF) which multiplies the speed of disc rotation by 2.1.

Next in line is the CH260, a 10-inch diameter machine which is equally at home chipping biomass



(Left) A Farmi CH380 chipper sold in February to agricultural contractor Ian Kidd for site clearance and fuel production. (Right) The Safe-Chip system, fitted to many Schliesing machines, creates a danger zone around the feed hopper.



as it is on green waste reduction. Options include auto stress control, independent hydraulic unit, discharge chute extension and a crane-fed hopper.

At the top of the range is the CH380 with four adjustable knives giving a variable chip size from 10-30mm for professional energy chipping. Capable of handling logs up to 38cm/15inches in diameter, standard features include independent hydraulics, auto no-stress, 38x40cm crane-fed hopper and hydraulically operated discharge chute. A useful option is a heavy-duty infeed conveyor which makes life much easier when crane feeding short or brash type material.

M Large 028 90 342838

www.mlarge.com

Corwen Forestry 01490 412146

www.corwenforestry.co.uk

#### Gandini

Gandini's range has expanded significantly, with chippers now offered from 150mm to 360mm infeed capacity. Each machine is available tractor- or self-powered, from 35hp to 250hp, with larger machines having the option of crane feeding.

All units are supplied with three-bladed flywheels and four-sided fixed anvil blade providing a conformed chip size. The majority of chippers are sold to eliminate burning, reduce volume and transport costs, but in recent years more machines are utilised to produce woodchip as a boiler fuel.

Gandini chippers all have twin infeed rollers with no-stress feed monitoring devices as standard. Machines up to 200mm infeed have horizontal rollers, which are ideally suited for brashy type material. Heavier duty high output models have vertical feed rollers which allow material to be presented to

the chipping flywheel at an angle of 30 degrees. This gives a blade cut at an angle across the grain, reducing power requirement, especially on larger diameter hardwoods, at the same time increasing blade life.

Drive to the feed rollers is by cast iron hydraulic motors, then through a high torque gearbox. The rollers are tensioned by a hydraulic ram. These features provide high crushing power for awkward shaped branches. The ram facility also allows the operator to open the rollers for easier and safer loading of heavy timber.

All self-powered machines are driven by modern diesel engines which are fully enclosed to reduce noise levels to a minimum. Rotating turntables allow feeding operation through 180 degrees. Machines up to 1000kg in weight are mounted on high-speed single axles. Heavier units have twin axles which improve towing stability and allow better flotation on soft ground and easier kerb mounting.

Chippers International 01789 414871

www.chippersinternational.co.uk

#### GreenMech

GreenMech have just launched the Arborist 13-23, a road-towable machine with an infeed capacity of 5" (130mm) x 9" (230mm), making it suitable to process mixed woody waste and tree limbs. The 13-23 has the options of either a 22hp petrol engine or a 20hp diesel engine, with either single or twin feed rollers and unbraked or braked chassis. They say this is an affordable wood chipper for the professional user.

The Quad-Chip is a unique turntable chipper that is under the 750kg towing regulations but still has a 6-inch capacity. To keep the operator out of the danger zone the Quad-Chip can be positioned so

that the infeed hopper is in the best position for easy and safe feeding of brash. Powered by a 34hp turbo-charged engine, high throughput is provided by twin vertical feed rollers and a 6"x9" letterbox infeed throat, offering an exceptional crushing capacity on difficult branches and fast processing of leafy brash.

The CS100 is a compact professional 4-inch wood chipper, with a 73cm width for working in confined areas. Powered by either a 14 or 18hp Briggs and Stratton engine, the CS100 combines power and economy, using just 2 to 3 litres of fuel per hour. Benefiting from a wide infeed throat (315x162mm) the unit can cope with tree, shrub and hedge trimmings; the high discharge chute eliminates double handling when loading into skips or trucks. The chipper blades are in a removable cassette for ease of maintenance. The machine also features an accessible emergency stop button and double rubber flaps on the infeed chute.

GreenMech 01789 400044

www.greenmech.co.uk

#### Heizhack

Heizhack chippers are available to suit various maximum timber diameters – 300, 400, 500 and 800mm. In each capacity the machine is available in various widths. They have been developed to produce a quality chip fuel.

Heizhack drum chippers produce a controlled chip size, have a big appetite with a large infeed and work with low powered tractors. Powerful infeed conveyors combined with a large diameter top roller provide constant controlled feed right up to the chipping drum. The chipping drum comprises a number of small blades, designed to make the change of the cutting



(Left) GreenMech's recently launched Arborist 13-23, road-towable with petrol or diesel engine options. (Right) Aimed at local authorities and utility companies, the TW150DBH from Timberwolf.

knives simple and fast.

Screens regulate the chip size, making them ideal for auger-fed chip heating systems, and they can be changed quickly to suit different chip specifications. The chipper uses a stress control system, which allows it to be driven from tractors of varying power ratings, and optimises the power available.

The smallest hand fed machine is the HM4-300. It suits a maximum diameter of 30cm (12"). It is also available as a HM6-300. Moving up, the 400 range (16" diameter) starts with a 5-blade model, with an opening 450mm wide, up to an 8-blade model with 690mm opening.

There are also crane fed models with long feed intakes, hydraulic infeed roller, hydraulic raising and lowering and rotation and direction control of the output chute. Control for these models is remotely operated.

A two-wheeled chassis or a high-speed four-wheeled chassis are available as options.

The latest development from Heizohack is the HM10-500-KTVM.

Powered by a Iveco 260kW Cursor diesel engine, it includes tandem axle trailer, Patu 305T crane and a cab for the operator.

Fuelwood (Warwick) 01926 484673  
www.fuelwood.co.uk

### Jenz

Jenz offers five powered chippers, starting at 280hp and increasing to the 650hp HEM 1000 model with a capacity up to 350m<sup>3</sup>/hour. This enables most customers to find the right sized model.

New to the range is the high capacity HEM 820 with chip production in excess of 60 tonnes per hour. Jenz chippers can be trailer mounted, truck mounted or on tracks. Many are fitted with cranes and have long infeed conveyors with hopper style infeeds to enable easy loading of tree surgery off-cuts.

Jenz also produces five pto chippers for tractors from 150 to 480hp. Pto models are very versatile and offer a lower entry cost providing you have a high powered tractor.

New to the UK are the Jenz range of Chippertrucks. The com-

pact MAN 6-wheel chassis are highly manoeuvrable, have very low transport costs, and utilise 4-wheel steering and 4-wheel drive. The 480hp MAN diesel powers both the chipper and the truck, and the 10-metre crane reach greatly facilitates feeding.

Jenz machines are drum chippers, fitted with screens to create a consistently sized product. They use small, low cost blades to minimise damage from steel and stones.

In the UK, Jenz chippers are busy supplying new biomass plants. Individual machines, such as the 600hp HEM 700, are producing around 65 tonnes of chip an hour, and many machines will be producing over 300 tonnes of chip per day.

Westcon supply new and used Jenz chippers both in the UK and Ireland.

Westcon Equipment 01258 859100  
www.westconuk.com

### Junkkari

Junkkari have been producing wood chippers for 40 years alongside their vast range of Finnish agricultural

machinery.

All are pto driven and range from 4 inch to 18 inch capacity. Machines up to 4 inch capacity are popular as their prices make them an alternative to a secondhand machine (eg the HJ10G costs only £8,900). All are specifically designed to produce wood fuel and the large HJ500 C can be found producing large volumes of wood fuel throughout the country.

Jas P Wilson 01556 612233  
www.jaspwilson.co.uk

### Kesla

Caledonian Forestry is the UK distributor for Kesla Foresteri wood chippers. Options in the Kesla C4560 range include a single axle, a tandem axle chassis and a 300hp engine version. The wide feeding table enables various materials to be chipped, including roundwood up to 450mm, branches, log residues and wood waste.

The low power requirement has been achieved through a patented knife design and the knives can be easily removed for sharpening. The Kesla range has accessible service platforms for easy maintenance. Hydraulic drive and brakes are an optional extra.

Caledonian Forestry 01764 663798  
www.caledonianforestryservices.co.uk

### Schliesing

Schliesing chippers are available in a wide range of models, with machines ranging from 12 to 28cm, pto, diesel or even hydraulically powered, with diesel machines boasting power up to 100hp.

Among the new features on the machines are discharge chutes fitted onto bearing swivel bases, a folding discharge chute for easy storage of the machine and a galvanised chassis. Many machines are fitted as standard with power grip top feed



(Left) Jenz Chippertrucks are highly manoeuvrable and offer low transport costs. The 480hp MAN diesel powers both the chipper and the truck. (Right) The Junkkari HJ500 is operated via an electro-hydraulic remote control.

(Left) The latest model from TP, the 130, is offered at a special introductory price. (Right) The German built Tünnissen from DANequip, with 37hp Lombardini engine.



rollers and power control system.

The optional Schliesing whisper-cut system reduces stress on the machine by around 40% and also reduces noise levels by up to 30%.

The 235MX, with an 18cm capacity and 35hp, has created a lot of interest since its launch at the Arb Fair in 2009, as has the 105MX with 12cm capacity, diesel power, a weight of under 750kg and brakes.

Moving with market trends, Schliesing offers a range of forestry machines fitted with cranes and grabs; these are available either pto driven with a three-point link or trailed, or diesel powered suitable for road towing.

Safe-Chip is a safety system being fitted to many Schliesing machines around Europe. An electronic device that creates a danger zone around the feed hopper, it picks up a signal from a transponder fitted into either the operator's glove or helmet. Should the operator move into the danger zone for any reason the machine automatically shuts down.

Contact details for appointed agents can be found on the website. *Overland 0118 981 6588*

*www.premierwoodchippers.com*

#### Timberwolf

A wide selection of Timberwolf chippers and shredders are available in mobile, tracked, portable and pto forms from Orange Plant.

The Timberwolf 150DHB mobile 150mm hydraulic chipper is suitable for tree surgeons, local authorities, rail/utility companies and landscapers, being light in weight, but durable in performance and throughput.

New introductions include the Timberwolf TW190TVGTR (Turbo Variable Gradient) tracked 190mm chipper which enables operators to overcome difficult ground conditions.

At entry level is the portable Timberwolf TW13/75 gravity-fed chipper, ideal for getting into tight spaces and handling material up to 75mm in diameter.

Orange Plant offers the units on a sale (new and used) or hire basis from several strategically placed depots throughout the UK.

*Orange Plant 0845 838 6337*  
*www.orangeplant.co.uk*

#### TP

Now in their 29th year of producing wood and brushwood chippers, TP (Linddana A/S) have recently launched the TP 130, with a 130mm infeed diameter. As with almost all of the TP range, the TP 130 has been produced as a tractor-mounted and as an engine-driven, towed machine.

It has been released with a special offer price tag of £4750 + VAT for the pto model and £7500 + VAT for the mobile model.

The TP 130 has a 5" infeed capacity and comes with one hydraulically driven feed roller which is manufactured with hardened steel toothed discs which give a strong and aggressive infeed. It also has an integrated hydraulic system and an air-cooled hydraulic pump.

Following on from the TP 130 is the TP 160, again in tractor mounted and towed versions, and also due to be released in a tracked version. Next come the TP 200 and the TP 250.

For the biomass sector there is the TP 230, a 9-inch side-fed chipper that can also be mounted onto a high tip trailer. The TP 270 is an 11 inch chipper that can also be crane fed for the professional chip producer.

The TP 280 is also crane fed, and can produce some 50 cubic metres of woodchip per hour. The TP 400, with a 16-inch infeed diameter, is capable of producing some 100 cubic metres per hour.

*AT Osborne Ltd 02380 814340*  
*www.tpchippers.co.uk*

*Atkinson Vos 015242 62922*  
*www.tpwoodchippers.co.uk*

#### Tünnissen

German built Tünnissen brush chippers come in several models.

The 150 has a 5" chipping capac-

ity and is fitted with a 27hp Kohler Command engine. This is a light, compact machine, weighing under 750kg, and unbraked. The 170, with a 6" chipping capacity, has a 26hp Lombardini diesel water-cooled engine. The 190, fitted with a 38hp Lombardini diesel engine has a 7½" chipping capacity.

Two independent hydraulic feed rollers and stress control are fitted as standard on all Tünnissen chippers. All models have a fully galvanised chassis; the 170 and 190 have feed roller speed control, and are fully braked.

*DANequip 01420 476248*  
*www.danequip.co.uk*

#### Vermeer

The Vermeer BC2100XL brush chipper has three engine options – 215, 250 or 275hp. It is fitted with two horizontal feed rollers, a belt-tensioned clutchless cutter drum, and what Vermeer describes as the largest feed table in its class.

The BC2100XL has the capacity to process limbs up to 21 inches (53cm) in diameter. The 72-inch-wide (183cm) table funnels material to the 22x28 inch (55x71cm) drum opening to allow smooth feeding.

Vermeer offset the lower horizon-

tal feed roller from the upper horizontal roller by 11 inches (28cm) toward the end of the feed table. This allows material to be pulled to the upper feed roller making for easier feeding and lessens the need for the operator to manually control the upper feed roller for large diameter material. The feed rollers boast a theoretical combined pulling force of 10,000 pounds (4536kg). This gives operators a greater ability to pull in whole trees that have limbs and branches attached to the main trunk. It also helps reduce the need for repositioning the material while feeding.

The belt-tensioned clutchless design eliminates the need for an over-centre clutch that requires adjustment, rebuilding or replacing. This feature helps to decrease the cost of operation associated with clutch failures.

The BC2100XL also features the patented SmartFeed system.

An optional remote control allows an operator to control the chipper while utilising a separate machine to load it.

*Vermeer UK01933 274400*  
*www.vermeeruk.co.uk*



The BC2100XL from Vermeer comes with optional remote control.