

## An investment with a future

Oil and gas are limited in their availability and are becoming increasingly more expensive, which is why more and more private individuals, commercial enterprises and local authorities are turning toward renewable fuels. Wood chips are particularly favoured, and CO<sub>2</sub> neutral heating systems based on this renewable fuel source are technically fully developed and are in great demand. This is your opportunity. Become a regional energy supplier for renewable fuels using the AHWI chipper – the demand for wood chips is continually rising, and this energy source is right on your doorstep. Almost all vegetable matter can be converted to wood chips: logs, residual wood, waste wood, timber slabs, roadside greenery, or even wood obtained from building site clearance. In this manner, you can convert organic material, which has hardly any other use, into biomass for energy production – a new source of profit.



**An appetizing meal in just 3 minutes:** Within minutes, the AHWI hacker can devour stems with a diameter up to 110 cm irrespective whether hardwood or softwood.

## Wood chips to suit the customer's taste

The quality of the produced wood chip is the prime concern of the customer. If the heating system to be operated with this fuel source is required to be trouble-free, then the fuel itself must be of uniform size and contain very few fine particles. This is not an issue for the AHWI chipper as its rotor can be freely configured to accept 1 or 2 cutters, blades or cutting systems. In this manner, wood chips can be produced at different sizes – whatever the customer requires.

### The back burner chipper

The less energy is consumed creating wood chips, the greater the profit: for both you and the environment. This is why the AHWI chippers have been designed for cost effectiveness in terms of fuel efficiency and running costs.

Compared with similar competitors' products, the AHWI chippers are considerably more efficient. In addition, they are extremely robust and easy to maintain, which serves to reduce both fuel and service costs – and increases the anticipated residual value – a two-fold benefit.

## Wood chips? Coming right away!

You do not even have to be put off by customers who are impatient: using the AHWI chipper you can produce tons of wood chips in a relatively short time and replenish empty boiler rooms.

A large inlet opening combined with high rotor inertia and professional engineering enable the AHWI chippers to deliver the highest BCM (bulk stacked cubic metre) capacity on the market.

### Mobile chippers in two sizes

AHWI gives you the choice between the PTO-operated EC950 chipper or the autonomous EC1400 with its own power unit. The EC950 is configured to your specification, and can be mounted on a lorry or twin-axle trailer. The drive to this unit is from a PTO from the tractor, the lorry motor or via an auxiliary motor.

The particularly high performance EC1400 model derives its propulsive power from its built-in motor, which is attached beside the module to a lorry's subframe. We look at the individual needs of our customers and configure the chipper module, discharge system, crane and choice of carrier vehicle accordingly.

Technology	Your Advantages
High rotational inertia	<ul style="list-style-type: none"> <li>Ensures reduced fuel consumption and optimized shredding.</li> </ul>
Large screen drum area (deposition area)	<ul style="list-style-type: none"> <li>Delivers high throughput with fewer quantities of fine particles.</li> </ul>
Rugged construction	<ul style="list-style-type: none"> <li>Reduces wear and maintenance costs – higher residual value.</li> </ul>
High-grade hydraulic components	<ul style="list-style-type: none"> <li>Are unsusceptible to breakdown, are very responsive with high pump efficiency, feature reduced oil warming, and minimized down times caused by hydraulic leakages or burst hoses.</li> </ul>
Carrier vehicle independent crane drive	<ul style="list-style-type: none"> <li>When installing the chipper on the carrier vehicle, there is no need for the elaborate coupling to the hydraulic connector which leads to faster mounting, avoids the risk of oil spillage and allows no room for error.</li> </ul>
Modern CAN-bus based chipper controller	<ul style="list-style-type: none"> <li>Individually configurable to meet the needs of the operator. Specific crane functions can be infinitely varied by precisely controlling the oil flow to them.</li> </ul>
Large area, fold-out feed table with active conveyor	<ul style="list-style-type: none"> <li>For optimized material transport.</li> </ul>
Powerful professional forestry crane	<ul style="list-style-type: none"> <li>Responsive, robustly constructed, with a broad coverage range and immense lifting capability (lifting moment gross 106 kNm / 73 kNm net).</li> </ul>
Material discharge via adjustable chute with blower and optional belt variator	<ul style="list-style-type: none"> <li>High throughput, and able to be accurately positioned for material offloading in different containers / storage locations.</li> </ul>
Separate rotor clutch	<ul style="list-style-type: none"> <li>Ensures minimum effort which is required during the initial start of the hydraulic pump system and blower, and reduces the start-up torque on the rotor.</li> </ul>
Centralized lubrication points	<ul style="list-style-type: none"> <li>Lubrication points are located on two centralized lubrication blocks for rapid maintenance and to prevent lubrication being overlooked.</li> </ul>
Hydraulically operated discharge screw conveyor	<ul style="list-style-type: none"> <li>Complete with stop and reverse functionality.</li> </ul>

Basic Configuration						Optional Configuration	
Model	Performance Class (in HP)	Rotor Diameter in mm	Inlet Opening	Number of Tools	Power Unit	Available Cage Variations	Available Rotor Configuration
EC950Z	250–550	950	80 cm	12	Tractor PTO	35x35 mm to 120 x 120 mm	12/18/24
EC950 LKW	480	950	80 cm	12	Direct through drive lorry motor	35x35 mm to 120 x 120 mm	12/18/24
EC1400	Up to 850	1400	110 cm	12	Auxiliary engine	1 unit ribbed cage Size: 70x70 mm	12

### Usable biomass for the production of wood chips with AHWI chippers

- Logs (hardwood and softwood)
- Logging debris
- Waste wood
- Outside planks (slabs)
- Roadside greenery
- Wood from building site clearance

Dealer



## Organic Energy Generation

### The AHWI chippers



## The EC1400 chipper



### Large calibre: the EC1400LKW

This large mobile chipper module, with its own integrated 757 HP (565 kW) power unit, is one of the most powerful drum chippers available today. In just a few minutes, it can shred tree trunks with diameters up to 1,100 mm, outside planks, shrubs and wood scraps. The EC1400LKW is a complete and manoeuvrable production unit which can rapidly access nearly all deployment areas, and owing to its enormous power, it can continue to operate where other mobile chippers give up.



### Hard to beat: the rotor system

With a huge unladen weight of 5.8 tons, the EC1400's rotor has a great deal of rotational inertia, making it suitable for the toughest of chipping tasks. The rotor itself is equipped with 12 blades, which can be resharpened or adjusted as required, and an extremely robust, hydraulically operated feed roller fitted above the input opening, coupled with two more fitted beneath it, ensures uniform material feed. A screening cage with a large deposition area is available with different mesh sizes to ensure the material is shredded into standardized grades, while a generously sized discharge system guarantees maximum throughput without material backlog.

## The EC950 chipper

### The version for towing: the EC950Z

The PTO driven EC950Z chipper has the very same all-terrain mobility as the tractor that pulls it, making it the ideal choice for on-site material processing. The module's transmission is from the tractor, and its robust chassis, with tandem axels, is rated at 65 km/h. An extremely rigid crane fixture ensures equipment stability even in extreme operational environments, and generously sized access points facilitate maintenance tasks. The EC950Z chipper enables you to increase the application scope of your machinery while at the same time providing a lucrative source for additional income.



### The autonomous variant: the EC950LKW

The EC950LKW is a completely autonomous system for wood chip production, and not only is it compact but it is also manoeuvrable and particularly mobile. Armed with the EC950LKW you can quickly reach even more remote deployment areas thereby securing additional commissions. Owing to its ability to rapidly change deployment area, means that more valuable time is gained to spend on production, and hence more profit. A powerful engine ensures high throughput, while its individual components are harmonized to reduce fuel consumption. Both chipper module and crane unit can be controlled directly from the comfort of the lorry cab.



## The technology behind the AHWI chippers



### Momentous savings: the rotor concept

The EC950's rotor concept targets economy, durability and efficiency. The high rotational inertia exerted by the complete 2,400 kg heavy rotor unit delivers greater impact at reduced fuel consumption, and simultaneously

preserves the drive elements by preventing rearward transmission. The rotor can be equipped with 12, 18 or 24 chipper blades or cutters.

### Everything within reach: the control equipment

All machine functions are CAN-bus controlled, and a clearly arranged, easy-to-use menu-driven display unit simplifies operation and enhances security.

### Trend-setting: the discharge system

The material is transported to the discharge chute by means of two side-ward screw conveyors and two horizontally aligned worm drives. The complete worm drive system can be administered from the comfort of the cab, where it can be completely or partly shut off or even reversed to prevent blockages and even free the blower from an eventual jam. The powerful discharge blower, with its 6 rocker shovels, can rapidly and accurately discharge material up to 25 meters. The discharge quantities, distance and orientation can all be adjusted while the machine is operating to suit the operational conditions.



### For optimum quality

A belt variator is available as an option, which permits infinitely variable adjustment of the blower impeller's rotational speed, so that the speed of the impeller can be matched to the quantity of chipped material. The advantages here are: noticeably fewer quantities of fine particles in the chipped material, a reduction in dust formation and minimum wear and tear.

### Individually combinable: the screening cage

Different cages are available with different gratings. In this manner, the size of the resulting wood chip can be varied between G30 and G100. High throughput is attained through large deposition areas.