

# CRAMBO E-MOBILE

Shredder for wood  
and green waste





# Low-speed dual-shaft shredder for wood and green waste

The Crambo is one of the best machines there is for shredding all types of wood and green waste. The e-mobile series adds semi-mobile electric-powered versions to the line-up, featuring maintenance-free electric motors instead of diesel engines. The concept combines the compact design and flexibility of a mobile machine with the energy efficiency of a stationary machine.

Two slow-running drums with shredding teeth minimize fine particle and noise/dust emissions, and resist contraries. The Crambo enables easy adjustment of the output particle size, by simply exchanging the screen basket to instantly change the particle size. In addition to the proven hydraulic drive, there is a mechanical drive version for top economy. A modern operating console and convenient access to all maintenance points make everyday work very easy.

## Electrical power (kW)

160



280

## Max. throughput (t/h)

55



100

## Gross weight (t)

21.7



24.6

- ▶ High throughput with general-purpose use
- ▶ Aggressive feed with long, counter-rotating shredding drums
- ▶ Variable particle sizes through simple screen basket change
- ▶ High efficiency and minimal maintenance due to electric motor

# Wide range of applications



## 01 Green waste, woody biomass

A high throughput of bulky vegetation is made possible by the generously dimensioned feed area, folding hopper and counter-rotating teeth. Blockages from wet material and high grass content are practically impossible. The teeth clear the screen baskets on every revolution.

## 02 Rootstocks, forest wood residue

If a rootstock fits into the shredding area, it will also go through. The highly effective tooth power offered by the efficient drive, the intense motion of the material and the insensitivity to embedded stones all make the Crambo ideal for this application.

## 03 Waste wood

When shredding waste wood, the wear-resistant teeth provide a high level of resistance to contraries. Counter-rotating shafts, together with the special shape of the teeth, produce a perfect feed, even for fractions with high board content.

## 04 Special applications

The innovative shredding concept provides a wide range of application possibilities. Established applications include shredding organic waste for composting, shredding market and food/kitchen waste for fermentation, and preshredding of rotor blades from wind turbines for recycling.



# The machine in greater detail

Every Komptech machine meets the highest requirements for dependability and value retention. This is assured by the use of high-quality components, certified production and gapless quality control.



## Mobility



Hook



Trailer



Track

## Screen baskets



80 | 100 | 125 | 150 | 180  
220 | 250 | 300 | XL

## Drum drive



hydraulic

# 01



## Electric motor

- Three-phase asynchronous motor with high efficiency (up to 95 %)
- No exhaust emissions at the operating site, 100% CO<sub>2</sub> reduction
- Fully encapsulated engine compartment to reduce noise emissions

# 02



## Drum drive

- Hydraulic drive with load-dependent speed regulation
- Optimum protection of all components through solid engine compartment cladding and special control cabinet
- Overload protection for drum and engine

# 03



## Shredding unit

- Extremely large shredding compartment with two aggressive feed drums
- Wide range of screen baskets available
- Quick-change system for screen basket and tools

# 04



## Operation

- Operating panel with a 7" high resolution screen and intuitive menu guidance
- Reversing program to adapt to the material and for drum self-cleaning
- Onboard diagnostics, with trouble-shooting integrated into the control system for fast problem solving

# 05



## Flexibility

- Connection and disconnection by single plug system, easily be done by just one person
- Minimum time needed for startup, enabling flexible use at multiple sites
- Compact mobile machine design with road approval

# 06



## Maintenance

- Generously sized doors for optimal access to all maintenance points
- Maintenance-free electric motor
- Encapsulation of the drive train keeps dirt out and reduces maintenance effort



The shredding drums are effectively protected against wear by armouring in exposed zones.

## Shreds anything

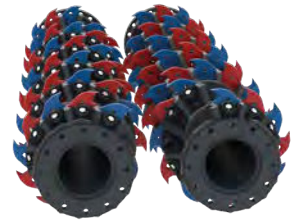
In the generously dimensioned shredding area, two 2.8 metres long counter-rotating shafts provide active feed. The teeth seize the material and press it in a cutting/splitting action against the cutting edge and screen baskets located underneath. Slow turning results in a lumpy shred initially.

The material does not exit the shredding area until the particle size matches the hole size of the screen basket, enabling the quantity of shredded material in the desired particle size to be maximized. There is no additional generation of fine fractions, and overlengths are reduced to a minimum.

# Options

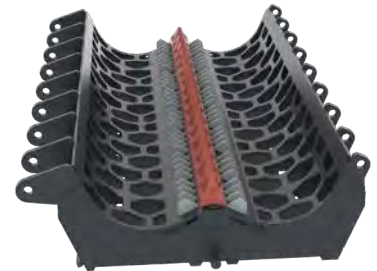
## Shredding drums

Specially developed bearings keep the massive shredding drums securely in place, even under extreme loads. On each drum there are 67 alternating left and right cutting tools in a spiral arrangement.



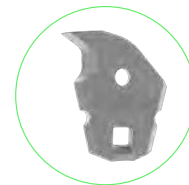
## Cutting unit

In addition to the universally applicable standard cutting unit, an optional bio-cutting unit enables the optimal processing of woody biomass for use as fuel. Countercut tools inserted near the central cutting edge give an efficient cut, for finer shredding and the right output particle consistency.



## Teeth

With their carefully designed profile, the drop-forged wear teeth ensure maximum service life and consistent functionality. The all-purpose sickle teeth deliver aggressive feed and good cutting. The planing teeth give good results on waste wood when used with smaller screen baskets. Their shape makes them very long-lived. Sickle teeth and cutting edges are also available with carbide armour.



Sickle tooth



Planing tooth

## Screen baskets

Screen baskets are tailored to the cutting unit and are available in the sizes most commonly used in practical applications. To replace, activate the button to swivel the screen basket cartridge out hydraulically. Remove the screen basket halves from the cartridge and replace with another screen basket, or exchange the entire screen basket cartridge. Swivel it in again to continue working.





# In daily use

## Over seven cubic metres hopper volume

Just load material into the big hopper – the machine does the rest. Hydraulically folding hopper sidewalls make the already generous shredding chamber even bigger.

## Efficient shredding

The use of an electric motor instead of a diesel engine offers significant advantages in energy efficiency. Electric motors can have efficiencies up to 95 percent, while diesel engines max out at 30 to 35 percent. With comparable throughput, up to 70 percent of the energy costs can be saved this way.

## Ready for anything

Options let users configure the Crambo for the exact task. Wireless remote control and central lubrication add to ease of use, a moistening system keeps dust down, and an extended discharge conveyor allows high discharge cones. The overbelt magnet can be exactly aligned with the discharge conveyor position, for optimum separation performance.

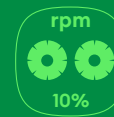
## Clean running

No exhaust gases, minimal noise emissions due to full encapsulation of the drive, and suitability for indoor or outdoor use, all make the electric shredder the ecologically sustainable solution. The higher the proportion of renewables in the energy supply, the more CO<sub>2</sub> can be saved by comparison with a conventional diesel engine. In best cases the CO<sub>2</sub> savings can be 100 percent.

## Always know what's going on

The Connect! app, which is freely usable with every Crambo, enables transparent administration, optimum job planning and remote monitoring of machines. GPS data provides for precise locating, and the data history and data exports offer many possibilities for improving operating economy. NEW: Throughput measurement and evaluation with Connect!.

### Functions



Steplessly adjustable drum speed (hydraulic)



Reversing programs



Swivel screen basket

### Operations



Adjustable hopper walls



Contrary detection



Condition Monitoring

### Options



Remote control



Moistening equipment



Adjustable overbelt magnet



Throughput measurement



# The Komptech plus



## Top advice

We'll show you how to optimize your processes, based on our experience and extensive data analyses.



## All-in solutions

From individual mobile machines to complex stationary systems, with us you get the right process solution.



## Service near you

Expert technicians are on-site quickly to make sure your machines keep running.



## Productivity in view

Apps and integrated monitoring let you keep an eye on operating data and economy.



## Spare parts always available

Intelligent stocking for the fast, economical provision of high-quality spare parts.



## Need-based service

Our maintenance and service agreements, as well as extended warranties, are aligned with your needs.

# Overview of our technology



Look here for the newest updates,  
specifications and more detailed descriptions:

## Model

3400



5000



6000



## Motor

Type Electric motor

Asynchronous motor

Asynchronous motor

Asynchronous motor

Power (kW)

160

220

280

## Loading heights

Loading heights (mm)

Hook: 2,396 | Trailer: 2,997 | Track: 2,898

Discharge heights (mm, 10°-35°)

Hook: 1,520-3,842 | Trailer: 1,929-4,250 | Track: 1,830-4,151

## Shredding unit

Drum drive

hydraulic

hydraulic

hydraulic

Drum rpm

max. 32

max. 33

max. 39

Drum length (mm)

2,820

2,820

2,820

Drum diameter (mm)

610

610

610

## Dimensions in transport position/working position (conveyor belt 35°)

Hook – L x B x H (mm)

7,290 x 2,500 x 2,766 | 11,722 x 3,290 x 3,709

Trailer – L x B x H (mm)

9,065 x 2,549 x 3,367 | 13,497 x 3,290 x 4,250

Track – L x B x H (mm)

6,940 x 2,854 x 3,268 | 11,372 x 3,290 x 4,151

## Weight (dependent on equipment)

Hook (t)

21

21.3

21.7

Trailer (t)

23.3

23.5

23.9

Track (t)

24.4

24.6

25

## Throughput (dependent on material)

Throughput

up to 45

up to 60

up to 100

## Hook (hook lift chassis)



## Trailer (3-axle trailer)



## Track



# Never waste an opportunity.

**Komptech GmbH**  
Kühau 37  
8130 Frohnleiten, Austria  
+43 3126 505 - 0  
[info@komptech.com](mailto:info@komptech.com)

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## We create value for you



### **Waste-stream expertise**

Because you need a  
setup that is tailored to  
your waste stream.



### **Innovative technology**

Because you need to  
adapt your output to  
your market needs.



### **Flexible sales models**

Because you have the  
choice between new, rental  
and used machines.



### **Service excellence**

Because you always  
need to keep your  
system running.