

# CRAMBO E-MOBILE

Shredder for wood  
and green waste







## OVERVIEW

# 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.

Engine 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

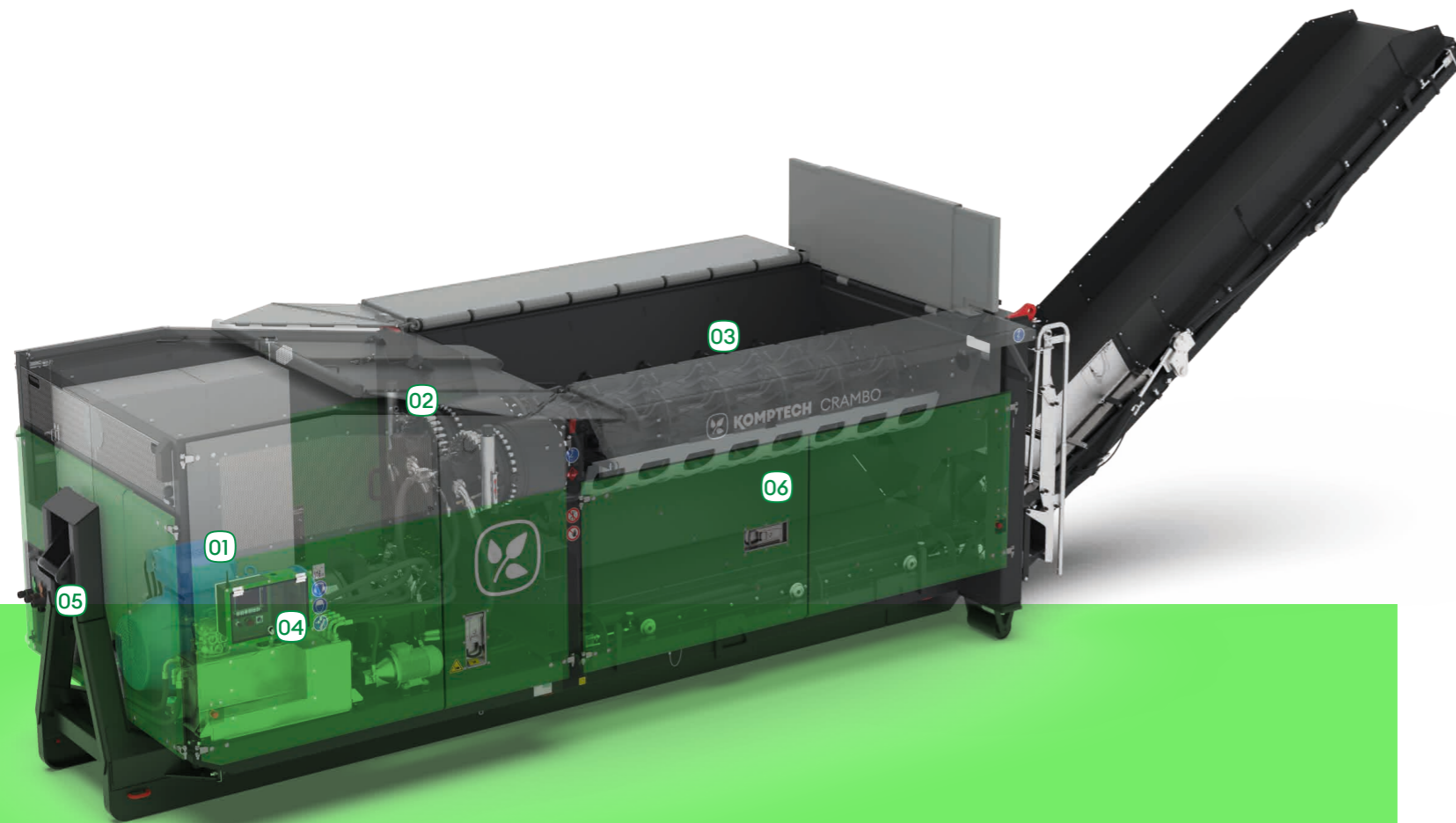
The innovative shredding concept provides a wide range of application possibilities. Established applications include shredding organic waste for composting, shredding market and food/kitchen waste for fermentation, and preshredding of rotor blades from wind turbines for recycling.





# 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

### 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 with green electricity
- 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 armoring 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. Strong planetary gears boost drive train life, for dependable service through thousands of operating hours.

### 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.

### Bio cutting unit

This optional cutting unit is ideal for preparing 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.



### 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.







AT WORK

# 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





## SERVICE

# The Komptech plus



### Top advice

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



### Service near you

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



### Spare parts always available

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



### All-in solutions

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



### Productivity in view

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

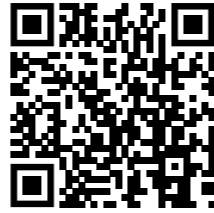


### Need-based service

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
<b>Motor</b>			
Type Electric motor	Asynchronous motor	Asynchronous motor	Asynchronous motor
Power (kW)	160	200	280
<b>Loading heights</b>			
Loading heights (mm)	Hook: 2,396   Trailer: 2,996		
Discharge heights (mm, 10°-35°)	Hook: 1,520-3,842   Trailer: 1,929-4,250		
<b>Shredding unit</b>			
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
<b>Dimensions in transport position/working position (conveyor belt 35°)</b>			
Hook – L x B x H (mm)	7,290 x 2,500 x 2,766   12,292 x 3,290 x 3,842		
Trailer – L x B x H (mm)	9,065 x 2,549 x 3,367   13,497 x 3,290 x 4,250		
<b>Weight (dependent on equipment)</b>			
Hook (t)	21.7	22	22.3
Trailer (t)	24	24.3	24.6
<b>Throughput (dependent on material)</b>			
Throughput	up to 55	up to 80	up to 100

## Hook (hook lift chassis)



## Trailer (3-axle trailer)





# Never waste an opportunity

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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.