KOMPTECH
BIOGENIC

CRAMBO E-MOBILE

Shredder for wood and green waste




DANGER STAND CLEAR
KOMPTECH CRAMBO 5000
80



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.

- 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

Electrical power (kW)

160 ↓ 280

Max. throughput (t/h)

55 ↓ 90

Gross weight (t)

21.7 ↓ 24.6

APPLICATION

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.



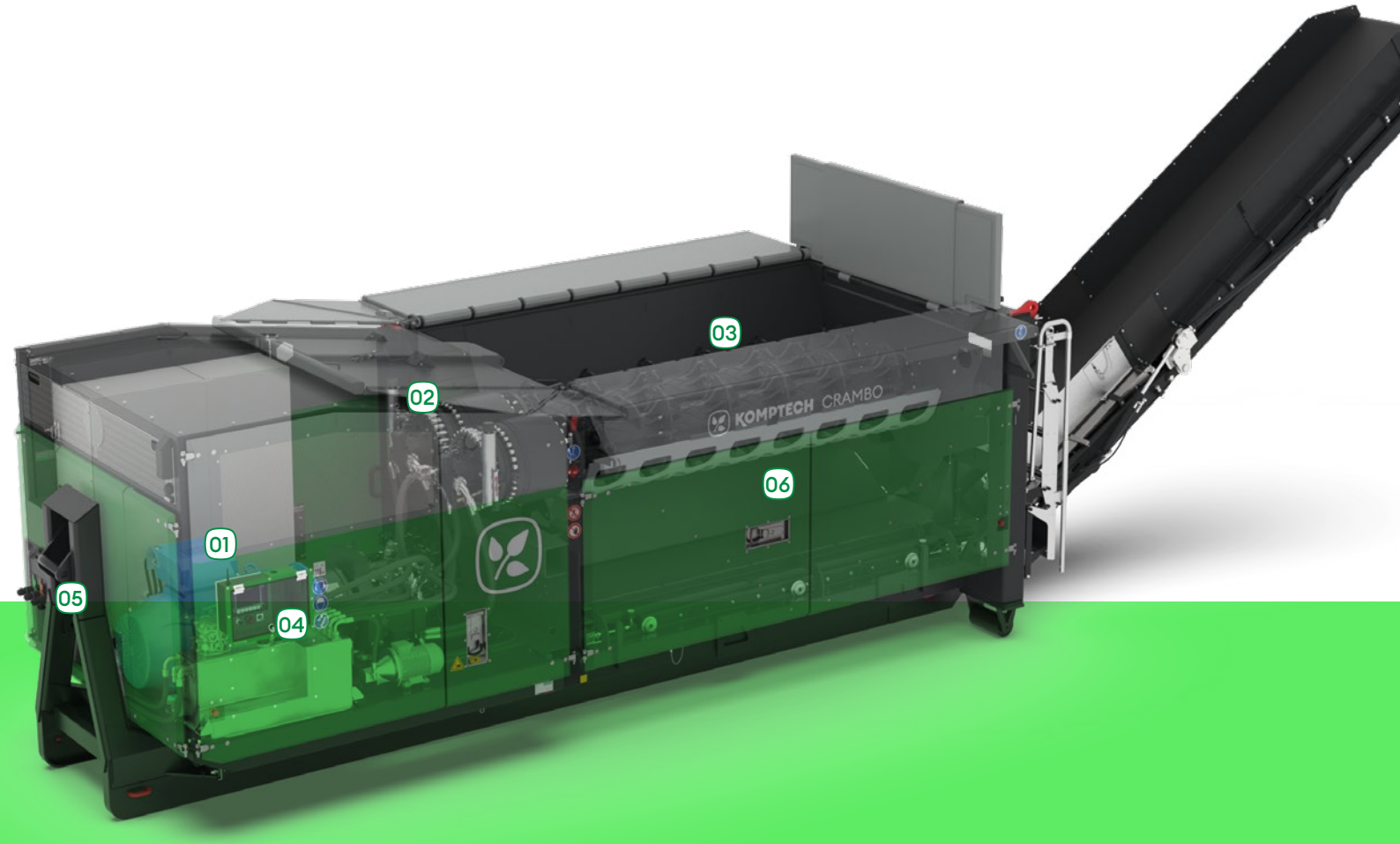

03
KOMPTECH CRAMBO 3400


02


04

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_2 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, which can 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-metre-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

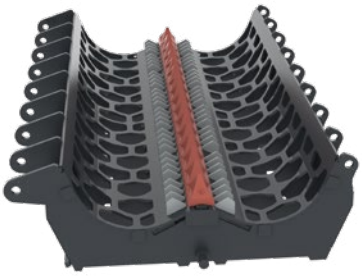
Shredding drums

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.



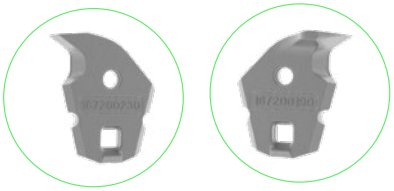
Cutting unit

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.




KOMPTECH CRAMBO 5000



AT WORK

In daily use

Over seven-cubic-metre 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_2 can be saved by comparison with a conventional diesel engine. In best cases the CO_2 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


DANGER STAND CLEAR
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SERVICE

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

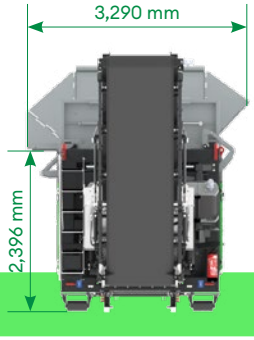
Our maintenance and service agreements, as well as extended warranties, are aligned with your needs.

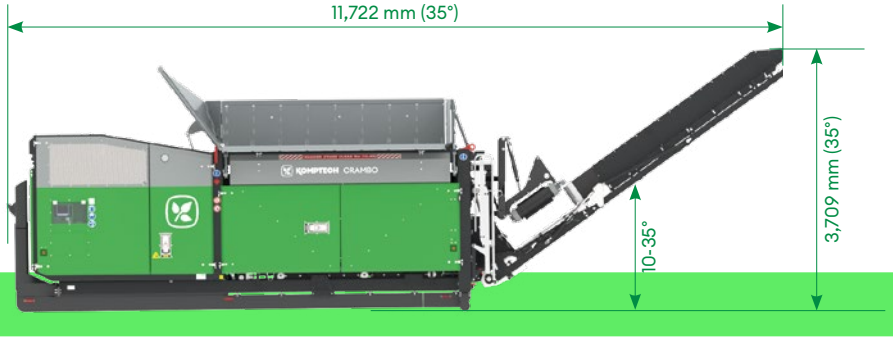
Overview of our technology

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

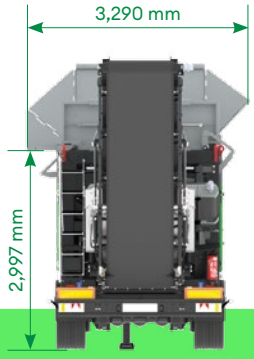
Model	3400	5000	6000
Motor			
Type Electric motor	Asynchronous motor	Asynchronous motor	Asynchronous motor
Power (kW)	160	220	280
Loading heights			
Loading heights (mm)	Hook: 2,396 | Trailer: 2,997		
Discharge heights (mm, 10°-35°)	Hook: 1,387-3,709 | Trailer: 1,929-4,250		
Shredding unit			
Drum drive	hydraulic	hydraulic	hydraulic
Drum rpm	max. 31	max. 31	max. 38
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 W x H (mm)	7,290 x 2,500 x 2,766 / 11,722 x 3,290 x 3,709		
Trailer – L x W x H (mm)	9,644 x 2,549 x 3,367 / 13,497 x 3,290 x 4,250		
Weight (dependent on equipment)			
Hook (t)	21.7	22.0	22.3
Trailer (t)	24.0	24.3	24.6
Throughput (dependent on material)			
Throughput	up to 55	up to 75	up to 90

Hook (hook lift chassis)





Trailer (3-axle trailer)





KOMPTECH

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.