

CRAMBO 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. 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
- ▶ Numerous chassis and equipment options

Engine power (kW)

250



447

Max. throughput (t/h)

45



120

Gross weight (t)

21



27.5

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.



01



Power plant

- Powerful Caterpillar diesel engines with the latest exhaust scrubbing
- High-performance cooling system for engine and hydraulics
- Fully encapsulated engine compartment to reduce noise emissions

02



Drum drive

- Option 1: Hydraulic drive with load-dependent speed regulation
- Option 2: Mechanical drum drive with 2-speed transmission (Crambo direct)
- 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



Ease of use

- Particle size adjustment: Change of screen baskets or change of the entire basket cartridge
- Extremely large 2 m x 3 m feed area
- Hydraulic folding hopper for easy material feed

06



Maintenance

- Large service panels for easy access to engine and drum
- All maintenance points (oils, filters, refuelling) externally accessible
- Excellent access to the wide discharge channel through side service doors

Mobility



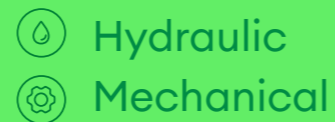
Hook Trailer Track

Screen baskets



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

Drum drive





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

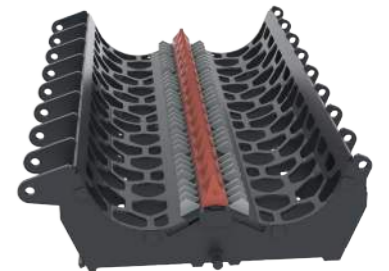
Shredding drums

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



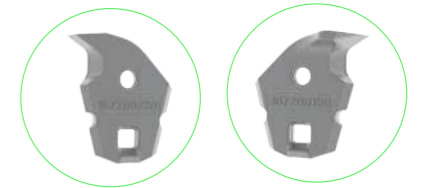
Cutting unit

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.





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

You can choose between highly efficient mechanical drum drive with automatic transmission – the Crambo direct – or the proven hydraulic drive with load-dependent speed regulation. The tool-free quick-change system for the screen baskets and reversing programs for the drums adapt the shredding process precisely to the material. Other benefits include contrary recognition as a safety feature and ECO mode as an energy saving function.

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.

Mobility the way you need it

On the Hooklift version, a towing setup provides manoeuvrability at the site. The Trailer version has air-cushioned axles and positioning capability, to facilitate frequent site changes. The Track version with two-stage drive and extra-wide treads can handle unhardened surfaces.

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

Contrary detection

Operation

Adjustable hopper walls

ECO Mode

Condition monitoring

Options

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	4200	5000	5200	6000	6200
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Engine

Manufacturer	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Caterpillar
Power (kW/HP)	250/340	250/340	340/460	340/460	447/608	447/608

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	mechanical	hydraulic	mechanical	hydraulic	mechanical
Drum rpm	max. 35	20 (1 st speed) 30 (2 nd speed)	max. 32	22 (1 st speed) 34 (2 nd speed)	max. 39	28 (1 st speed) 42 (2 nd speed)
Drum length (mm)	2,820	2,820	2,820	2,820	2,820	2,820
Drum diameter (mm)	610	610	610	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)	9,064 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	21.3	21.3	21.7	21.7
Trailer (t)	23.3	23.3	23.5	23.5	23.9	23.9
Track (t)	24.4	24.4	24.6	24.6	25	25

Throughput (dependent on material)

Throughput (t/h)	up to 45	up to 45	up to 60	up to 60	up to 100	up to 120
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Hook (hook lift chassis)



Trailer (3-axle trailer)



Track (tracked chassis)



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.