



**KOMPTECH**

TECHNOLOGY FOR A BETTER ENVIRONMENT

# CRAMBO

LOW SPEED, HIGH TORQUE, DUAL SHAFT  
UNIVERSAL APPLICATION  
FLEXIBLE PARTICLE SIZE  
SHREDDER







## HIGHLIGHTS

- » High throughput with minimal down time
- » Aggressive feed with two nine foot long, counter-rotating shredding drums
- » Variable particle sizes through simple screen basket change
- » Contaminant resistant
- » Low speed - High torque operation minimises noise and dust emissions



# CRAMBO VERSATILE

The Crambo is capable of shredding numerous feed stocks - from grass, leaves, dirty root balls, stumps, shingles, railroad ties, fibrous wood including palm, C&D, etc. Everything is shredded to a determined particle size.

The Crambo enables easy adjustment of the output particle size, by simply exchanging the screen basket to instantly change your required particle size. Today, untreated pallets for a biomass heating plant with the 3" / 80 mm screen basket. Tomorrow, green waste for composting with a 9" / 250 mm screen basket. The day after tomorrow ...





01

### Biomass fuel from C&D

Make a fuel product in one pass while removing contaminants.



02

### Shred contaminated green waste for composting

A high throughput of bulky vegetation is made possible with a generously dimensioned feed area, a folding hopper and counter-rotating shafts.

Blockages from wet material and high grass content are practically impossible. The teeth clear the screen baskets on every revolution.



03

### Shred and Screen contaminated wood in one pass

Root balls/stumps land clearing debris. If a root ball fits into the shredding area, it will go through the machine.

The highly effective tooth power offered by the hydraulic drive, the intense motion of the material and the insensitivity to embedded stones and metal all make the Crambo ideal for this application.



04

### Special applications - Food, waste, shingles, railroad ties, etc.

The innovative shredding concept provides a wide range of application possibilities. Established applications are shredding bio-waste for composting, shredding market waste and food/ kitchen waste for fermentation, and preshredding roofing shingles, railroad ties, etc. for finished processing.





# INSIDE THE MACHINE

The Komptech brand stands for quality, reliability, and value-retention. That means that we use only the best components, from the engine to the output conveyor.

The Crambo is powered by a modern Caterpillar® engine. The complete muffling of the engine compartment reduces noise emissions to a minimum. With load-dependent rotation speed regulation (constant power control), the hydraulic drum drive ensures that full advantage is taken of the engine output. The clearly laid out function keys make operation simple and reliable. Control electronics continually monitor the operational status of the machine, and intervene to protect the machine should a breakdown occur. Reversing programs precisely adapt the shredding process to the material, and the clearly laid-out control panel makes work simple and sure.

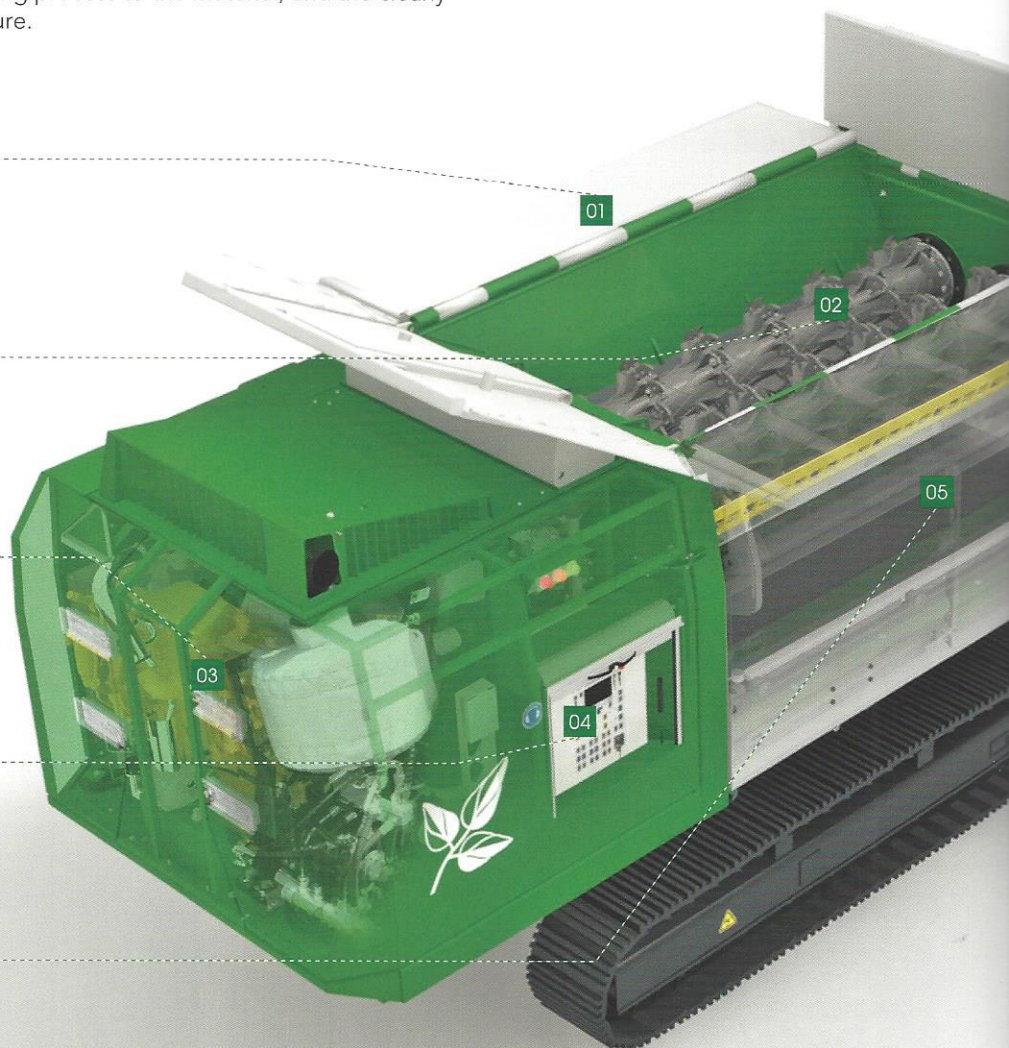
01  
Adjustable  
hopper system

02  
Counter rotating with  
aggressive teeth

03  
High performance  
Caterpillar® diesel engine  
with low fuel consumption

04  
User-friendly operator console  
with on-board computer and  
remote control

05  
Quick change  
screen basket system

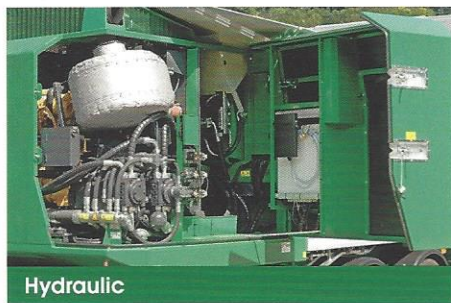






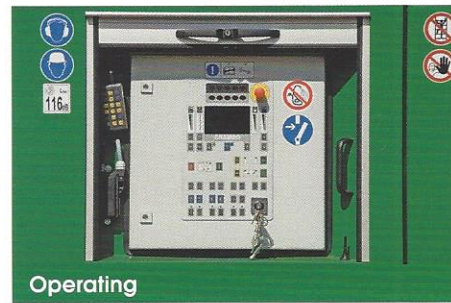
**Engine**

- » Engine completely enclosed to minimize noise
- » Efficient, self-cleaning cooling system
- » Large access panels to simplify maintenance



**Hydraulic**

- » Always the ideal combination of power and speed through constant power control
- » Reversing programs for self-cleaning and customization to material
- » Remote control



**Operating**

- » Clear, easily understood control panel
- » On-board computer monitoring of operating status



**Input/Output**

- » Folding hopper for simple loading

## Machine tailored to individual needs

The Crambo can be tailored perfectly to its application using a range of equipment options. Central lubrication simplifies maintenance. Wireless remote control enables operation from the frontloader cabin. A towing hook, remote-controllable track or trailer give it on-site mobility. To remove metal, operators can choose between a head pulley magnet with hydraulic position control, or over band magnet.



### Options available:

- » Over band magnet and/or head pulley magnet
- » Central lubrication
- » Automatic feed device
- » Radio remote control
- » Watering device





## HIGHLIGHTS

- » Extremely large feed area measuring 6' 7" / 2000 mm in width and 9' 3" / 2820 mm in length
- » Low speed - High torque tool elements produce no fine fractions
- » Variable particle size spectrum by selecting the right screen basket
- » Quick-change system for screen basket and teeth

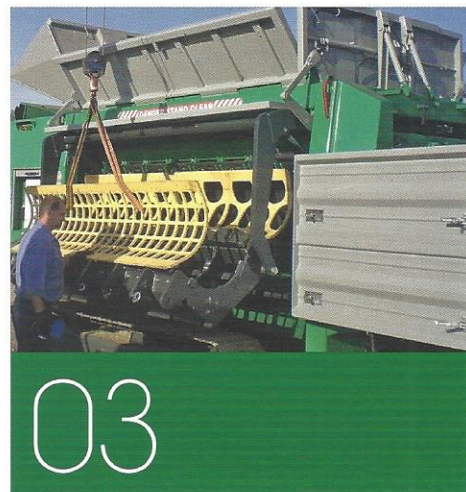
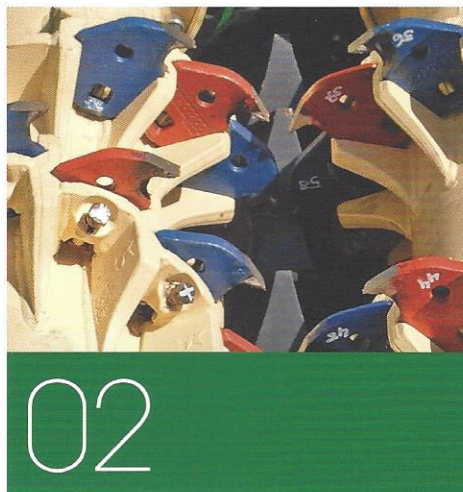
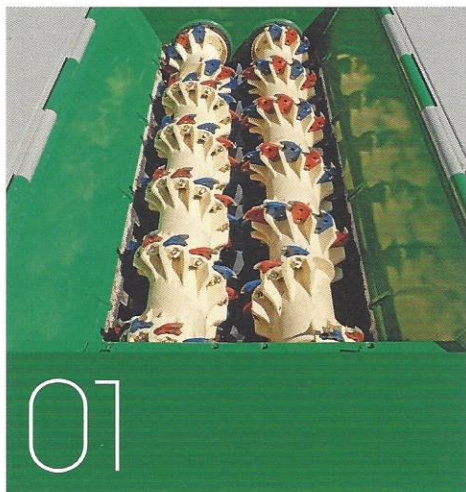


# SHREDS ANYTHING

In the generously dimensioned shredding area, two 9' 3" / 2820 mm 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 (rotation speeds up to maximum 40 rpm) results in a coarse shred which provides more surface area ideal for biomass and compost.

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 maximised. There is no additional generation of fine fractions, and overlengths are reduced to a minimum.





## Shredding drums

Newly developed bearings keep the massive shredding drums securely in place, even under extreme loads. Even stronger planetary gears boost drive train life, for dependable service through thousands of operating hours.

The shredding drums can also be optionally armored at areas susceptible to wear, for additional protection.

## Teeth

With their optimal profile the dropforged wear teeth guarantee prolonged service life whilst retaining consistent functionality.

Types:

Sickle teeth, Hook teeth, Planing teeth, new the Sickle teeth with replaceable tips

## Screen baskets

Screen baskets available in 2" - 12" sizes.

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. Move in again to continue working. Change time under 15 minutes.

## Types of teeth

01 Sickle teeth

02 Hook teeth

03 Planing teeth

04 Sickle teeth with replaceable tips



01



02



03



04





## HIGHLIGHTS

- » Quick set up
- » Low fuel consumption
- » No flying debris
- » Contaminant resistance



# CRAMBO MOBILE

Mobile technology – getting from A to B quickly and easily. But also getting ready for operation on site quickly: Unload, open up, power on – and start working. Komptech has mastered the art of building mobile high-performance machinery, with a unique ability to adhere completely to precise dimensional, weight and emission tolerances.

The Crambo offers a selection of hook lift, wheeled chassis or steel tracked versions. On the hook lift version, towing or automatic feed device options provide manoeuvrability on site. The Crambo trailer version offers the utmost in mobility, while self-propelled steel track version, with extra wide three-bar track baseplates, is ideal for soft ground or unstable terrain.





## HIGHLIGHTS



- » Electric drive for high efficiency and minimal maintenance
- » Perfect integration into the process flow
- » Optional isolated design:
  - Protection of drive unit (dust protected, better cooling)
  - Space-saving integration of compact shredding unit



# CRAMBO STATIONARY

If mobility is not needed, electric drive is the best solution from the viewpoint of operational efficiency. With their energy efficiency, virtually maintenance-free operation, and control benefits, electrical drives are the solution of choice – especially for large-scale plants with long operating times. A stationary Crambo can be tailored perfectly to site conditions. Besides the standard stationary

frame, isolation of the drive unit from the shredding unit can also be specified as an option. This way the drive unit is protected from dust and can be installed easily and accessibly in containers or in a room of the plant. The compact shredding unit can be integrated into the process flow without taking up too much space. The shredder can be filled from all sides.

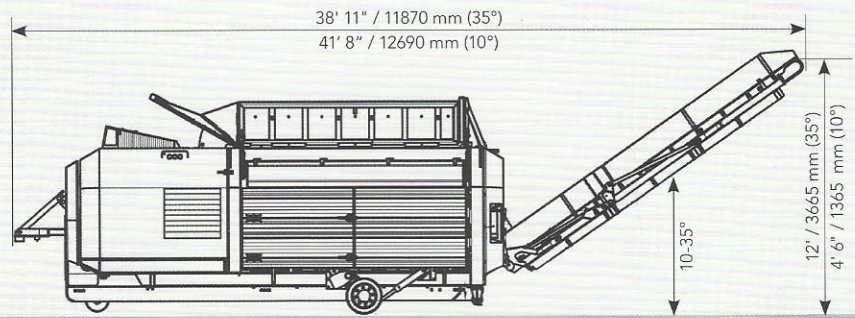
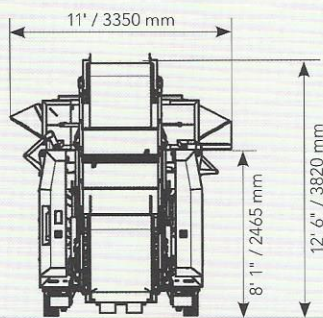




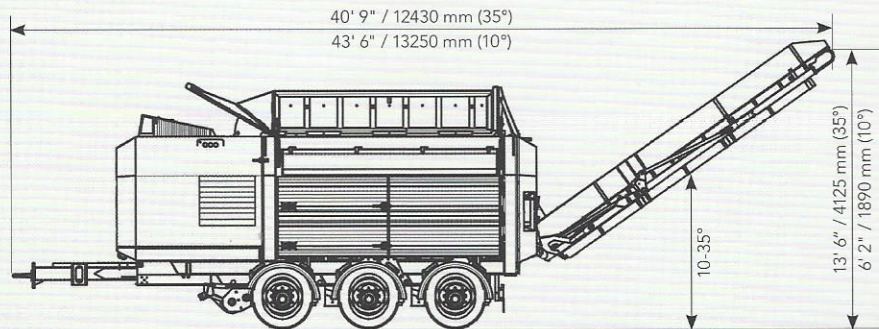
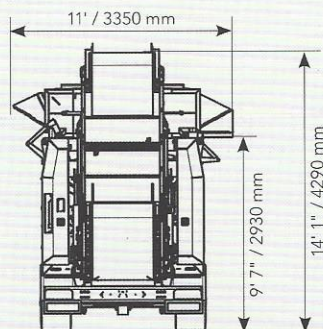
	3400	5000	6000
<b>Engine</b>			
Diesel motor:	CAT ® C9	CAT ® C13	CAT ® C18
Power:	242 kW / 324.5 HP	328 kW / 446 HP	429 kW / 575 HP
Power electrical motor:	1 x 160 kW	1 x 200 kW	2 x 160 kW
<b>Shredding unit</b>			
Drum rpm:	max 38	max 36	max 41
Drum length:	9' 3" / 2820 mm		
Drum diameter:	24" / 610 mm		
<b>Loading heights</b>			
Loading heights:	Hook: 8' 1" / 2465 mm	Trailer: 9' 7" / 2930 mm	Track: 9' 6" / 2906 mm
Discharge heights (10°-35°):	Hook: 4' 6" - 12' 0" / 1365-3665 mm	Trailer: 6' 2" - 13' 6" / 1890-4125 mm	Track: 5' 11" - 13' 6" / 1805-4105 mm
<b>Dimensions transport position/working position (Conveyor belt 35°)</b>			
L x W x H Hook:	22' 5" x 8' 1" x 8' 8" / 38' 11" x 11' 0" x 12' 6"   6840 x 2470 x 2650 / 11870 x 3350 x 3820 mm		
L x W x H Trailer:	26' 8" x 8' 2" x 10' 8" / 40' 9" x 11' 0" x 14' 1"   8120 x 2500 x 3255 / 12430 x 3350 x 4290 mm		
L x W x H Track:	21' 4" x 9' 4" x 10' 4" / 35' 9" x 11' 0" x 14' 0"   6495 x 2855 x 3155 / 10900 x 3350 x 4260 mm		
<b>Weight (dependent on equipment)</b>			
Hook:	~ 21.0 t.sh / ~ 19.2 t	~ 22.5 t.sh / ~ 20.3 t	~ 23.5 t.sh / ~ 21.2 t
Trailer:	~ 23.5 t.sh / ~ 21.4 t	~ 25.0 t.sh / ~ 22.4 t	~ 26.0 t.sh / ~ 23.4 t
Track:	~ 27.0 t.sh / ~ 24.6 t	~ 28.0 t.sh / ~ 25.7 t	~ 29.0 t.sh / ~ 26.6 t
<b>Throughput</b>			
Throughput benefit: (dependent on material)	up to 50 t.sh/h up to 45 t/h	up to 65 t.sh/h up to 60 t/h	up to 110 t.sh/h up to 100 t/h
<b>Options</b>			
Drum armored, sickle teeth armored, hook-shaped teeth, planing teeth, bio cutting unit, screen baskets 2"/3"/4"/5"/6"/7"/9"/12", radio remote control, central lubrication, fine particle separation, transferring magnet with swinging arm, magnetic pulley etc.			



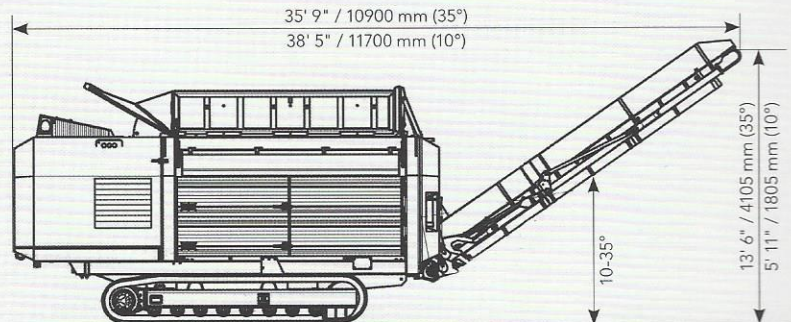
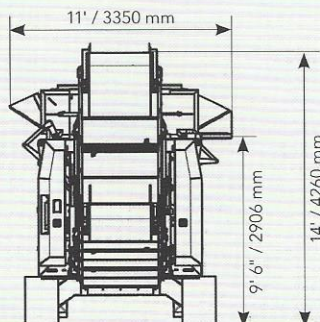
## Hook



## Trailer



## Track





# TECHNOLOGY FOR A BETTER **ENVIRONMENT**



Komptech USA Inc.  
[P] (720) 890-9090  
[F] (720) 890-5907  
[E] [info@komptechusa.com](mailto:info@komptechusa.com)

[www.komptechusa.com](http://www.komptechusa.com)

We reserve the right to make technical changes due to ongoing development. USA2012