



# ARCTOS Pre-Shredder



## ARCTOS - Powerful and Efficient

The ARCTOS are the new stationary multipurpose shredders from BRT HARTNER.

They represent the systematic advancement of the proven TEUTON series.



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## BRT HARTNER ARCTOS BM 36

Shredding of biomass and lightweight packaging

The BRT HARTNER ARCTOS BM 36 is a multipurpose shredder with an energy-efficient 200 kW motor for fine treatment of private and municipal waste such as biomass or lightweight packaging. Thanks to proven shredding tools, the BM 36 optimally prepares the material for composting, biogas or energy production. Downtimes are reduced to a minimum by means of screwed tools and wear elements.

### Product highlights

- › High throughputs (up to 160 t/h)
- › Large infeed width 3,600 mm
- › Final particle size of 80 - 250 mm adjustable with screen baskets
- › Minimal maintenance effort thanks to bolted tools and wear elements



## BRT HARTNER ARCTOS OM 36

Shredding of municipal waste

The BRT HARTNER ARCTOS OM 36 is a powerful heavy-duty shredder for light scrap metal, household and commercial waste as well as special applications. Two energy-efficient electric motors with 200 kW ensure a particularly high torque. Thanks to proven shredding tools, the OM 36 optimally prepares the material for subsequent processes. Downtimes are reduced to a minimum by bolted tools and wear elements.

### Product highlights

- › High throughputs (up to 160 t/h)
- › Large infeed width 3,600 mm
- › Final particle size of 80 - 250 mm adjustable with screen baskets
- › Minimal maintenance effort thanks to bolted tools and wear elements



## 1. BRT HARTNER ARCTOS Pre-Shredder for Every Occasion



The ARCTOS can be equipped with a range of individual drive settings. Thanks to this variety, they are masters of sophisticated shredding solutions for all types of waste.

- |   |  |
|---|--|
| <b>High maximum output:</b>             | High throughputs at maximum availability   |
| <b>Efficient shredding:</b>             | Continuous shredding even of difficult material                                  |
| <b>Outstanding versatility:</b>         | With a flexible , quickly adjustable cutting device (ripping or cutting setting) |
| <b>Maintenance:</b>                     | Downtimes reduced to a minimum with flexible replacement                         |
| <b>Adjustment of the counter tools:</b> | Unique quick adjustment for modification of the cutting gap                      |

## 2. Technical Data



Solid one-piece welded machine housing

Large working chamber opening of: 3,600 x 1,450 mm

Split counter comb

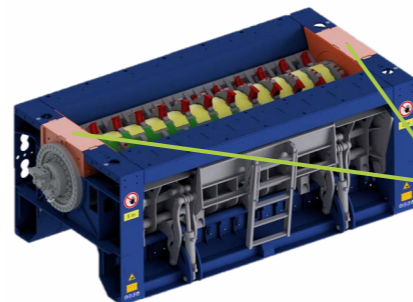
Precise cutting gap adjustment using templates

All wear plates in the machine housing are bolted

Smooth top with symmetrical flange option for infeed funnel

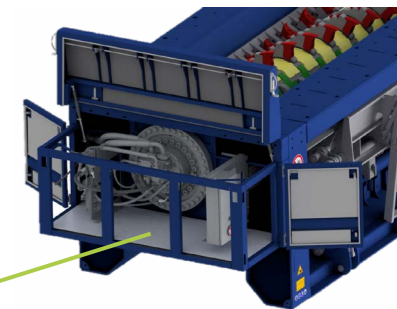
Big dimensioned maintenance door

Targeted shredding and easy to mount screen basket



Two removable bearing bridges for vertical lifting of the rotor

Large door openings for optimal access to the drive-gear unit

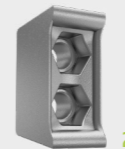
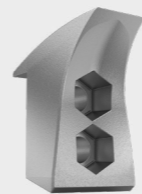
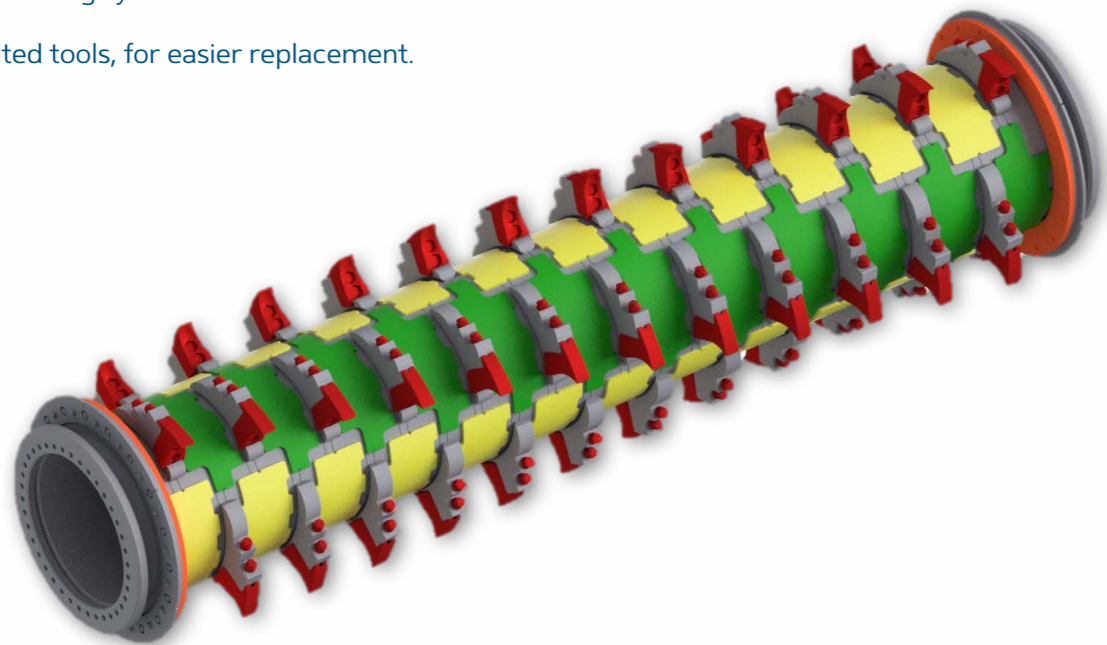


## ARCTOS BM 36 / OM 36 Integral Parts of the Rotor

### Marathon Plates

The particularly resistant Marathon plates of the rotor significantly increase the service life in comparison to an uncoated rotor. This standard is therefore ideal for continuous operation of a stationary shredding system.

Individual bolted tools, for easier replacement.



### Rotor Tools

**Multigrip<sup>1</sup>** The all-rounder for heavy-duty applications

**Twincut<sup>2</sup>** The perfect tool for precise cutting and a specific target size

### Safe Installation of Rotor Tools

The use of two screws ensures that the rotor tools are enduringly installed.

- › Easy mounting
- › Firm and secure fit
- › Easy to control
- › High flexibility



### Exchange of the Screen

The comfortable screen basket system with exchangeable screen baskets ensures quick and flexible adjustment of the final particle size to the requirements of the plant. The BRT HARTNER product portfolio comprises a large variety of hex shaped and strip screen baskets.



### Counter Tools

With the unique template system, the counter tool can be adjusted in no time at all. The segmented counter tool enables damaged or worn elements to be replaced quickly and as required.

### Counter Comb

Small, robust design for quick and economical replacement in the event of wear or damage. Each counter comb is held in place by two directly accessible screws and can be easily replaced without any preparatory work.



### Power Pack

Motor, oil tank and control unit in separate

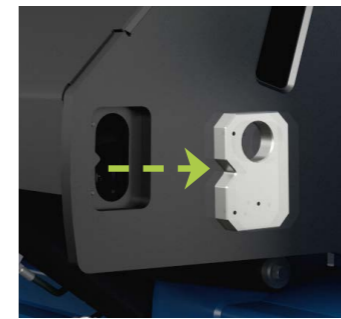
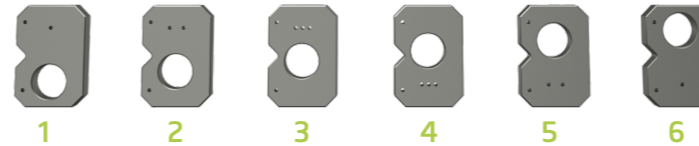
- › Outside the hazard zone
- › Particularly easy maintenance
- › Pre-wired installation



### Cutting Gap Adjustment

You can choose between six different settings for a predefined final grain.

Hydraulically pivoting shredding flap ensures free access to the working area



**ARCTOS BM 21**  
With the ARCTOS BM 21 a compact version of the series is also available.



Technical Data		ARCTOS BM 36	ARCTOS OM 36	ARCTOS BM 21
<b>Drive Unit</b>				
Type		electro-hydraulic	electro-hydraulic	electro-hydraulic
Drive power	kW	1 x 200	2 x 200	1 x 200
<b>Shredding Unit</b>				
Rotor tools	pcs.	48	48	28
Counter tools	pcs.	25	25	15
Rotor speed	rpm	20-40	20-40	20-40
Rotor length	mm	3,560	3,560	2,100
Rotor diameter	mm	610	610	610
Rotor diameter with tools	mm	982	982	982
<b>Infeed Chute</b>				
Volume	m <sup>3</sup>	11	11	7
Filling height	mm	3,600	3,600	3,600
Filling width	mm	3,600	3,600	2,900
<b>Electric Control Unit</b>				
Software		BRT HARTNER development	BRT HARTNER development	BRT HARTNER development
Display		7" touch display	7" touch display	7" touch display
Interfaces		Profinet / Ethernet	Profinet / Ethernet	Profinet / Ethernet

### 3. Types of Waste

The ARCTOS stand for perfect shredding results with different materials. Depending on the composition, they provide throughput rates of up to 160 tons per hour.

#### Household Waste

Material density: 300-550 kg/m<sup>3</sup>

#### LWP Waste

Material density: 25-40 kg/m<sup>3</sup>

#### Commercial Waste

Material density: 150-550 kg/m<sup>3</sup>

#### Bulky waste

Material density: 100-300 kg/m<sup>3</sup>

#### Biowaste

Material density: 400-800 kg/m<sup>3</sup>

#### Construction Waste

Material density: 800-1300 kg/m<sup>3</sup>

#### Waste wood (A1/A2/A3)

Material density: 200-400 kg/m<sup>3</sup>

#### Green Cuttings

Material density: 200-400 kg/m<sup>3</sup>





#### 4. System Solutions

BRT HARTNER offers comprehensive turnkey solutions. Moderate investment costs, a compact design and low operating and maintenance costs make our solutions particularly attractive. They are versatile and suitable for processing industrial and commercial waste, biomass, waste wood, household waste, mixed construction waste, old tires, lightweight packaging, root wood and many others.



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