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# Zato®

## Recycling Solutions

### BLUE DEVIL

Twin shaft shredder

Pre-shredder



[zatoshredder.com](http://zatoshredder.com)



# Industrial shredders for ferrous and non-ferrous metals



Blue Devil industrial shredders are designed to offer the most efficient and robust solution for the reduction of medium-light ferrous and non-ferrous scrap.

## Add value

The Blue Devil quickly and effectively downsizes bulky material, reducing scrap size while increasing its density.

The increased density 'clean' scrap is highly valued by steel mills and foundries as scrap processed by a Blue Devil melts easier thereby reducing energy costs.

## A robust pre-shredder

Positioned upstream of the hammer mill, the Blue Devil significantly increases productivity by up to 50% while protecting the mill from explosions and unshreddable materials there by reducing downtime and ensuring staff safety.

## Technologically advanced

Although simple to operate, each Blue Devil is packed with the latest digital technologies such as:

- Augmented reality (during installation and maintenance);
- Predictive Maintenance;
- Artificial Intelligence.



The ideal solution  
for transforming  
scrap into a  
premium resource.

## APPLICATIONS

- |   |  |
|---|--|
| 01 Mixed scrap  | 06 Aluminium (Casing)                    |
| 02 Medium/light scrap   | 07 Aluminium profiles in bulk or bundles |
| 03 Bulky scrap  | 08 Aluminium slag                        |
| 04 Scrap in bulk or bundles                                   | 09 Tyres                                 |
| 05 Cars as such and in bundles also with engine and mechanics |  |

## TECHNICAL DATA SHEET

### Feeding hopper

<b>Hopper opening</b>	mm	4300 x 2190
<b>Loading volume</b>	m <sup>3</sup>	7

### Shredder body

<b>Shredding chamber</b>	mm	2165 x 1750
<b>Weight</b>	t	44
<b>Shaft weight</b>	t	7,6 cad.
<b>Shaft rotation speed</b> (fast\slow rpm in automatic)		3 - 6
<b>Blade width</b>	mm	180
<b>Total number of blades</b>		60

### Container

<b>Engine</b>		Diesel\Elettrico
<b>Engine power</b>	HP/kW	590 HP 400 kW
<b>Container weight</b>	t	10

### General information

<b>Total dimensions</b>	mm	7330 x 3150 x 5300
<b>Total weight</b>	t	56

# 10 steps which redefine efficiency

Scrap recycling is **even more sustainable**

## INCREASE SCRAP VALUE

The Blue Devil reduces the size of light and bulky scrap, increasing its density quality and value.

01

## HIGH TORQUE

The low rotation speed with exceptionally high torque hydraulic motors equates to unrivalled performance.

02

## QUICK SET UP

Set up and commissioning in 4 days without the need for expensive civil works or foundations.

03

## LOWER OPERATING COSTS

Efficient components and smart technology solutions ensure very low running costs.

04

## COMBATING CLIMATE CHANGE

Scrap metal is 100% recyclable. Shredding increases the scrap density, allows for effective sorting and reduces melt times there by saving energy and CO<sub>2</sub>. For every ton of metal recycled 1.6 tons less of CO<sub>2</sub> are released into the atmosphere. Recycling steel is an ecological and cost-effective choice and aligns 100% with the principles of creating a truly circular economy.

## RESPONSIBLE CONSUMPTION AND PRODUCTION

Recycling steel reduces CO<sub>2</sub> emissions by 80% compared to new steel production from iron ore. When using the correct reduction and sorting technologies, old steel can be transformed into new steel "ad infinitum" without losing any of its strength. Zato is proud to offer our customers part of the solution towards creating a true circular economy.

## PROTECTION FROM UNSHREDDABLE PARTS

The self-protecting system activates shaft reversal should an unshreddable enter the shredding chamber.

05

## MINIMAL DUST AND NOISE CREATION

The high torque slow rotation motors create a minimal amount of dust and noise.

06

## REMOTE ASSISTANCE

Zato technicians can monitor the performance of the shredder remotely. Faults and abnormalities can be detected before they cause damage while service intervals can be scheduled when convenient.

07

## RELIABLE SERVICE

Zato's highly trained technicians offer timely and practical advice when needed ensuring your shredder is always running at optimal efficiency.

08

## INNOVATIVE TECHNOLOGIES

Zato uses the latest advanced technologies such as: augmented reality during installation and maintenance, technology for data exchange and A.I. to support predictive maintenance to keep you one step ahead of the competition.

09

## EXPERIENCE AND QUALITY

Zato have installed over 120 shredders world wide and insist on using only the highest quality materials and components. Our experience is your benefit.

10

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