

# Zato

North America 

## BLUE DEVIL

TWIN-SHAFT SHREDDER  
PRE-SHREDDER

US

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

# BLUE DEVIL

Twin-shaft shredder  
Pre shredder

BLUE DEVIL TWIN SHAFT SHREDDERS SIGNIFICANTLY **INCREASE VALUE** OF COLLECTED SCRAP. ADVANTAGES INCLUDE:

- **INCREASED DENSITY**
- **SIZE REDUCTION**
- **INCREASED VALUE**

## A POWERFUL **VALUE ADDER**

The ZATO Blue Devil is the only twin shaft shredder on the market which is specifically developed from the ground up to process ferrous scrap metal.

Steel mills around the world are demanding homogenous, dense and clean scrap.

A Blue Devil twin shaft shredder is the perfect machine to quickly and cost effectively process large volumes of ferrous and non-ferrous scrap.

Scrap processed with a Blue Devil is more highly valued by steel mills than scrap processed using a shear baler as the density and homogeneity of the scrap is drastically increased.

The scrap can also be cleaned more effectively as the shredding process liberates dirt and effectively separates contaminants from the scrap. Cleaner sorted scrap is highly valued by steel mills who are constantly facing ever increasing strict environmental standards.

### APPLICATIONS

Loose and baled scrap	Bulky material
Loose and baled ELV (Inc. Engines and gearbox's)	Aluminium slag
Loose and baled Aluminium profiles	Bins
Loose and baled heavy scrap	Taint tabor
Loose and baled U.B.C.	Reservoir, armatures etc.
Rebar	Transmissions and motors
WEEE	Tires



## AN EFFICIENT VALUE ADDER

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Traditional materials destined for a hammer mill – such as ELV scrap cars (baled or whole with or engines and gear-box's, mixed collected scrap [loose or baled]) can all be pre shredded using a ZATO Blue Devil twin shaft shredder.

Pre shredded material sent to a hammer mill increases overall production rates by up to 30%.

Pre shredding scrap with a Blue Devil protects the hammer mill from expensive damage by sorting unshredables often hidden in bales before they are fed to the main shredder. Furthermore, potentially dangerous explosions are reduced and the life of wear parts increased reducing overall operating costs.

## SHAFTS

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The cutting blades of the Blue Devil are made of special high quality wear resistant steel which are securely mounted to each of the counter rotating shafts.

The geometry of each blade has been specially designed to ensure a perfect fit between the two shafts and to fit securely in the blades seat.

The blades are specifically designed according to the type of scrap to be processed. ZATO provides such a level of customisation to increase performance, durability and to protect the shredder from excessive stresses.

Depending on the material processed, blades can be fitted with different dimensions: 120mm, 160mm, 180mm and 220mm. All materials, components and production processes are quality certified.



# CONTAINER

The electrical motors, hydraulic unit, hydraulic pump, electric control panel are housed in a sound and weather proofed container which completely protects it from the elements.

The container is made of galvanized steel and insulated with high density fibre. The floor is reinforced and fire resistant to REI 120 standard. Noise is reduced to only 70 dB at distance of 7 meters.

Access is via the main twin doors or via a smaller service door with emergency exit bar located at the rear end of the container. Internal lighting is included.



DEVIL GF 4000



DEVIL GF 6000



TECHNICAL DATA		GF 4000	GF 6000
Shredding area dimensions	Inch	69 x 85	79,3 x 82,0
Body dimensions	Inch	87x 106 x 37	101,7 x 109,25 x 39,3
Blades quantity	Nr	60	42 + 36
Loading hopper capacity	FT <sup>3</sup>	247	529,7
Main power supply		Diesel \ Electric drive	Electric drive
Total installed power	KW / HP	445 / 597	580 / 778
Rotor speed [fast/slow]	Hz	FAST MAX 6 SLOW MAX 3	FAST MAX 6 SLOW MAX 3,5
Total weight	St	77	179

Technical specification can be modified without prior notice and without obligation.

## SAFETY AND COMMANDS

Each Blue Devil is equipped with safety devices which activate automatically should an overload situation arise. These automatic safety devices prevent damage and prolong the life of the blades, rotor and shredder.

Should an unshreddable object make its way in to the shredding chamber, the PLC detects an overload and automatically reverses the direction of rotation freeing the unshreddable object before damage occurs. Acoustic and visual warning signals are activated alerting the operator to remove the unshreddable object.

All models may have the online Remote Servicing System (RSS) installed. RSS allows external operators to control and command the shredder remotely and also to download diagnostic information. In case of faults or to fine tune certain operational aspects, ZATO technicians can access the shredders CPU remotely and immediately identify and rectify problems or make adjustments. With RSS activated there is no need for a ZATO technician to be on site to make adjustments or repairs.

CLOUD REMOTE  
MONITOR



**HARDOX**  
IN MY BODY

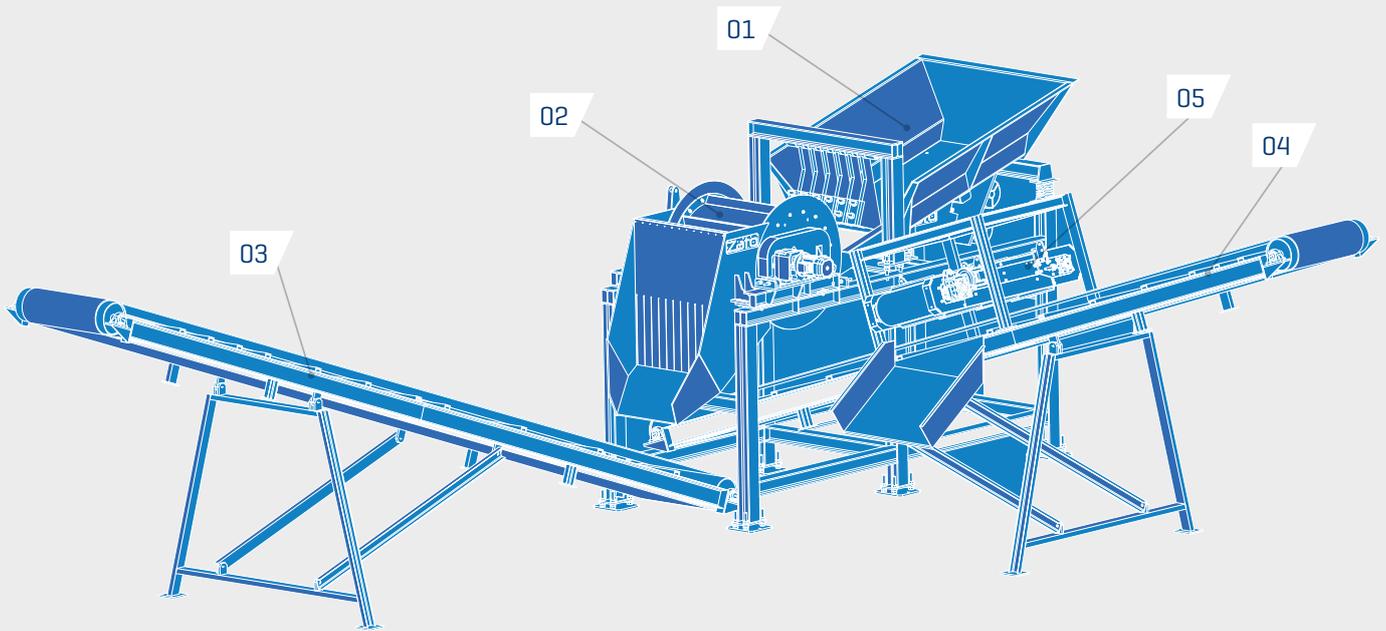


# MAGNETIC SEPARATION LINE

A magnetic separation line placed downstream of a Blue Devil twin-shaft shredder allows the recovery of non ferrous metals present in mixed collected scrap and ELV cars. Magnetic separation allows operators to earn extra profits from their scrap. High value metals can be collected and sold separately while contaminants are removed from ferrous scrap signifi-

cantly increasing their value to steel mills.

The Magnetic separation line consists of: Vibrating pan [01], Magnetic drum [02], conveyor belt for ferrous metals [03], Conveyor belt to for non ferrous metals. [04], Over belt magnet for secondary ferrous separation [05].



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