

Zato

North America 

BLUE SHARK

HAMMERMILLS



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Blue Shark



With Blue Shark series, we offer on the market an entire line of Hammermills designed for metal scrap shredding.

Through a continuous process of product development, our shredding plants combine technical innovation and engineering excellent.

Hammermills are available **from 420 to 3,000 hp drive power** and **from 1,200 to 2,600 mm rotor diameters**, they are designed to process volumes of scrap metals **up to 15,000 tons per month range**.

Considering the actual market situation, where the over-capability of mega-shredder is applying a strong pressure on the profitability of scrap recycling companies, we decided to engineer **a new series of hammermills featuring:**

- **easy management,**
- **production efficiency,**
- **rapid maintenance,**
- **cost-effective erection and maintenance.**



Applications

Blue Shark offers the most efficient solution in shredding:

- **ELV: pre-cut / entire / baled**
- **sorted domestic light scrap**
- **white goods / household appliance**
- **aluminum scrap, sheets and profiles**
- **UBC,**
- **brass, copper**
- **WEEE electrical and electronic equipment**
- **electric engines**
- **waste ash from incineration plants**
- **construction and demolition materials**

All the lines of Blue Shark Hammermills are designed to meet the latest **environment regulations and can be applied both in scrap yard and steel works and foundries.**



All Hammermills' manufactures suggest installing a pre-shredder upstream the Hammermill, as an essential tool to check on feeding speed, ensuring a smooth flow of processed material into the Hammermills and a higher density outproduct.

We have developed an integrated solution, combining our Blue Devil Pre-shredder and Twin-Shaft Shredder GF series with our Blue Shark Hammermill: this ensures a greater efficiency, better output product and faster production, maintaining the Hammermill functionality and its duration.

We offer on the market reliable solutions to the entire scrap recycling industry: a full range of product to cut, shred and, also, separate and clean.

From Single-Shaft and Twin-Shaft Shredders to pre-shredders, from hammermills and impact mills to downstream systems to select and dedust processed materials; we are able to handle successfully the entire process of processing, separating and cleaning every type of scrap.

Technical benefits that make Zato Hammermills Blue Shark series technology unique

- **Erection of the Hammermill in 3 weeks:**

The supporting structure of the Hammermill is completely pre-assembled in-house, before erecting it at the Customer premises. This feature allows an optimal checkup and to test entirely the functionality of the components and ensures a quicker erection than the traditional on-site erection, since it is possible to reduce unforeseen events. Moreover, this procedure allows the Customer to keep the costs of production of civil works under control.



- **Minimization of civil works for the installation:**

The supporting structure of the Hammermill and its component is made of robust carbon steel profiles, welded together with structural reinforcements. Walkways and safety hand railings are bolted to the main structure and allow an easy and safe access to the equipment. The supporting structure hosts the discharge vibrating feeder and the hydraulic power packs.



- **Change of the grid in a very short time:**

The Grid Frame is removable, so to ease and speed up the operation of change of the grid and all the maintenance operations to the components of the mill, internal to the shredding chamber.



- **Hydraulic coupling:**

A hydraulic coupling **made exclusively by us allows to gradually accelerate driven machines, limit torque, provide load sharing, and dampen torsional vibrations.** In this way, the drive system is protected, even under extreme operating conditions and it is a safer protection for the engine.



- **2 different system of feeding:**

Pushing Feeder [FP series];
Infeed Conveyor & Roll [CS series].

Technical advantages specific to Blue Shark Hammermills CS Series

- **Working without operator:**

The process could be automatic or control with a remote control by the operator, who doesn't sit in a control cabin, but easily operates the Hammermill sitting in the crane, loading the scrap into the feeding hopper.

- **Compact size:**

Blue Shark Hammermills thanks to the Feeding Pusher system, that doesn't require long infeed conveyors, are able to fit even in limited space.



TECHNICAL DATA



CS SERIES top feeding



FP SERIES feeding pusher

TECHNICAL DATA		12.10 FP-CS	16.13 FP CS			19.22 FP-CS		
Cutting chamber	HP	420	1000	1200	1500	2000	3000	
Rotor swing	Inch	47	63	63	75	75	75	
Rotor width	Inch	39	51	51	87	87	87	

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FP series



The Blue Shark FP series hammermill's greatest uniqueness is that the scrap is loaded into a **feeding hopper**, that, whilst containing the material provision, is also an extra impediment from projectiles expulsion coming from the shredding chamber. A hydraulic **pushing feeder system** allows an automatically controlled feeding of the hammermill avoiding all problems of overfeeding.



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CS series



Hammermill Blue Shark CS series is characterized by the feeding system with **conveyor and roll**.

Zato Blue Rex infeed conveyor is a heavy-duty conveyor engineered to withstand heavy shocks and impact loads. The loading area is a massive construction and thick steel plates sidewalls are disposed along the belt length.

Provided with labyrinth seals to prevent lateral spillage and eliminate chain damage. All rollers and rails are manufactured from hardened steel alloy in order to reduce wear and ensure prolonged operational life. Being able to design the conveyor with a steep inclination, it allows the reduction of the footprint to reach the shredder loading point.



Bailed ELV



Aluminum



Electric motors





OUTPUT MATERIAL



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Zato

North America 

Rev. 2021

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