

TAKRAF 



TAKRAF X-TREME CLASS SIZERS

Extending sizer limits

Innovation out of tradition – It pays to talk to a specialist!

TAKRAF Group, through its established and well-known brands, TAKRAF and DELKOR, provides innovative technological solutions to the mining and associated industries. We leverage our experience, acquired over more than a century, to provide equipment, systems and services that best satisfy our clients' mining, comminution, material handling, liquid/solid separation and beneficiation requirements. Owners and operators around the world trust our engineered solutions to lower the total cost of ownership and reduce environmental impact by improving efficiency with safe and reliable equipment. For sustainable solutions backed by expert service you can rely on TAKRAF Group. **Visit us at www.takraf.com.**

We at TAKRAF Group are committed to environmental and social sustainability in all our business interactions and have adopted a Zero Harm approach under our global safety promise.

Owners and operators around the world are confident that TAKRAF Group provides the most suitable solution to their unique project requirements. We assist our clients in overcoming the most complicated challenges in transforming the resource industry towards a sustainable future. We focus on specific areas that are critical for reliable and sustainable operations, as it is here where we best support our clients with innovative solutions that save energy, lower environmental impact and meet or exceed operational requirements.

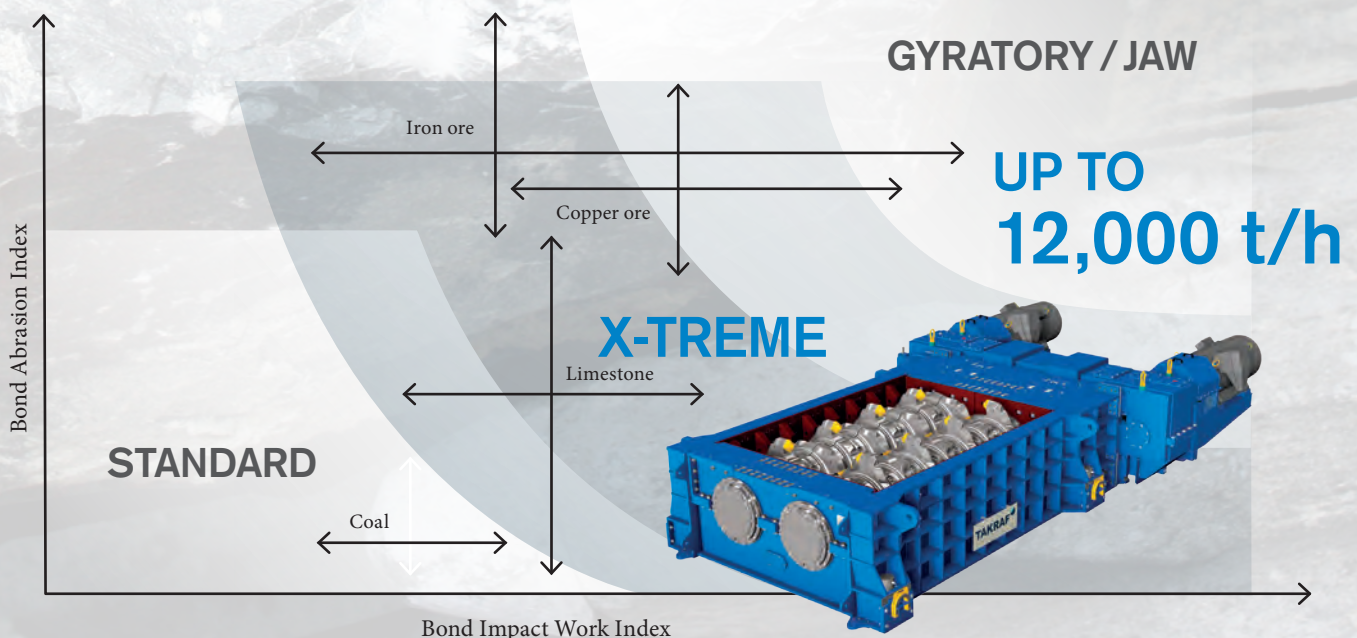
We are recognized as the world's leading technology provider when it comes to run-of-mine and bulk material handling. Our TAKRAF brand portfolio ranges from overburden removal, to raw material extraction, comminution, conveying, loading/unloading, processing, homogenizing, blending, storage and final loading for onward shipment.

We leverage our global organization and aggregate our extensive expertise by offering a unique combination of both application experience and product based knowledge. Clients therefore benefit from direct technical discussions with our local specialists, who are able to draw upon this expertise and provide the most suitable local solution and service that enhances safety, improves sustainability, decreases costs and increases efficiency.

Our commitment is summarized by:

Safety | Reliability | Innovation | Sustainability

THE NEED FOR X-TREME CLASS SIZERS



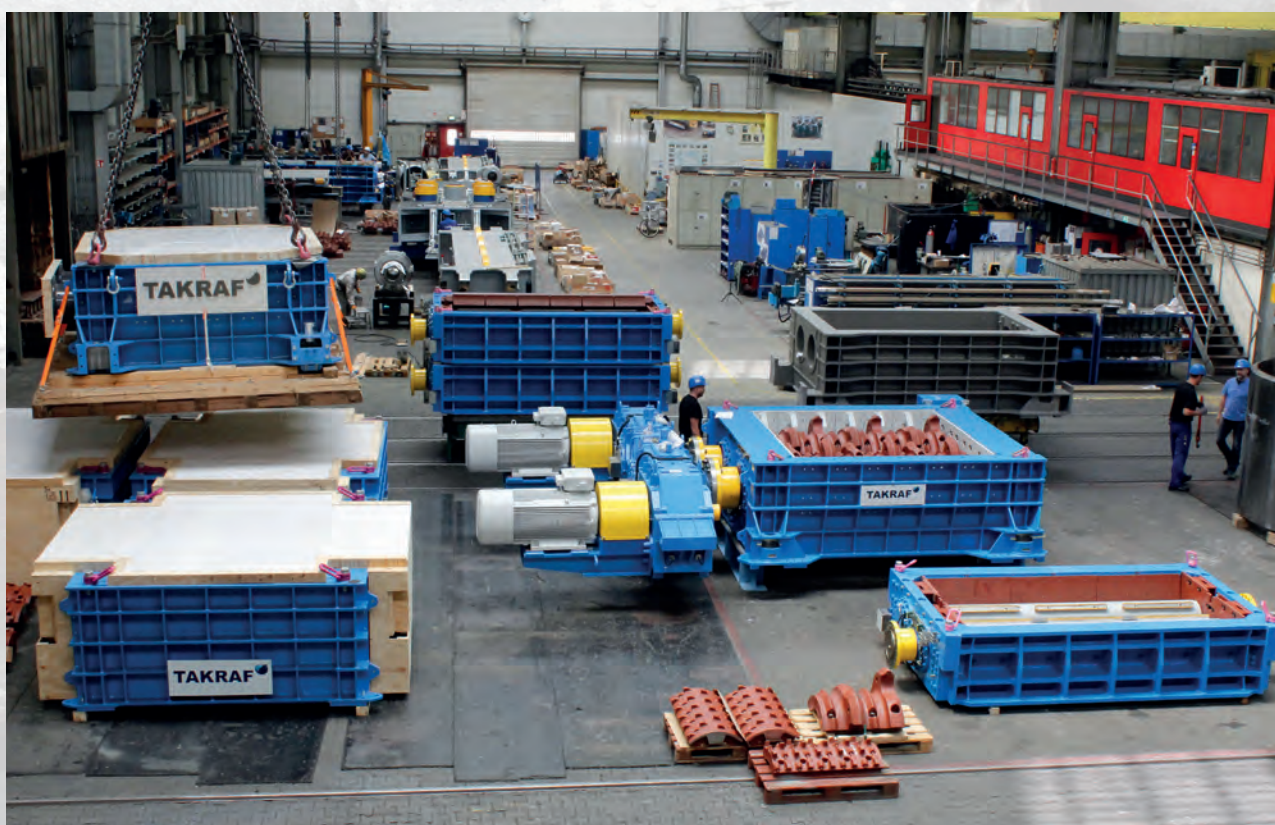
TAKRAF X-TREME CLASS SIZERS – Extending sizer limits

Sizers have always represented an economical crushing method. They are lightweight, low profile, and can efficiently process high capacities of soft material. Operators around the world have tried to push the limits of the industry standard machine in hard rock applications, but the material has always proved to be too hard, too abrasive, and simply too much for the standard machine to handle. The industry required a machine that could offer the economic benefits of a sizer even in applications that had always been the realm of jaw and gyratory crushers.

Step forward the TAKRAF X-TREME Class Sizer. With its simple yet robust design, the X-TREME Class Sizer offers the industry an economical and efficient machine boasting extended reliability and increased availability in the most extreme applications.

Parameter	Primary Sizer		Secondary Sizer	
	Standard	X-TREME	Standard	X-TREME
Feed size [mm]	1,000 - 2,000	1,200 - 2,500	200 - 800	300 - 800
Product size [mm]	200 - 350	300 - 400	30 - 150	50 - 150
Throughput [t/h]	1,200 - 8,000	1,200 - 12,000	800 - 3,600	800 - 4,500
Max. UCS [MPa]	120	200 (280)*	120	200 (280)*
Typical feed material	coal, shale, bauxite	overburden, iron ore, copper ore, oil sands, limestone	coal, shale, bauxite	iron ore, copper ore, oil sands, limestone

*subject to TAKRAF's Minerals Laboratory tests

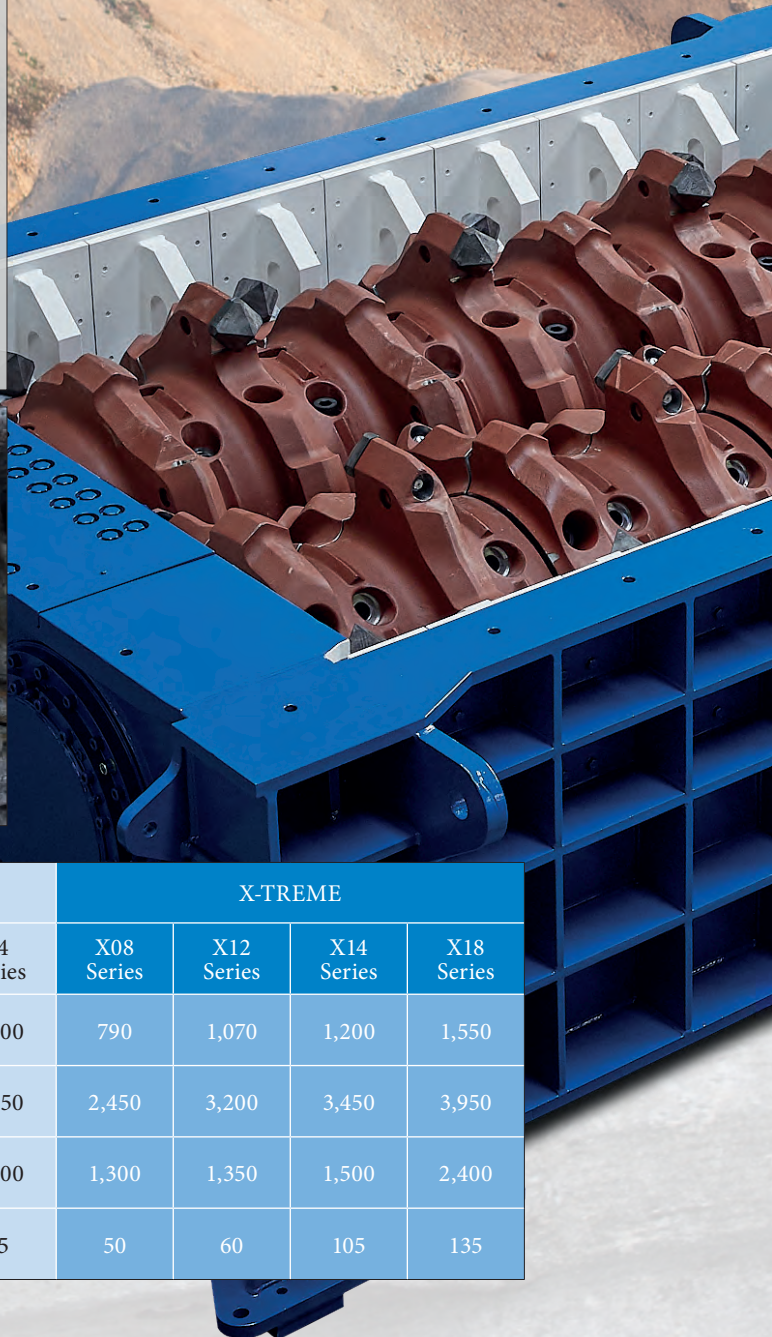


ROBUST FEATURES FOR MAXIMUM RELIABILITY

We applied our extensive experience in the global mining industry in the design and development of our **X-TREME CLASS SIZERS** in order to ensure that our machines reliably exceed real-life application requirements in terms of capacity, installed power and product size.

STANDOUT FEATURES

- High engagement tooth configuration is optimized to grip and crush large rocks
- Integrally cast tooth holders and shrink fit keys transmit the high crushing forces required to break hard rocks
- Heavy-duty bearing assemblies are sealed with a triple labyrinth taconite seal for ultimate bearing reliability
- Robust gearboxes designed with high application factors produce the required torque and withstand shock loads from uncrushable material
- A tungsten carbide overlay maximizes the lifetime of wear parts subject to high abrasion minimizing downtime and operational expenditure



Model	Standard				X-TREME			
	06 Series	08 Series	12 Series	14 Series	X08 Series	X12 Series	X14 Series	X18 Series
Centre Dist. [mm]	590	790	1,070	1,200	790	1,070	1,200	1,550
Width [mm]	2,100	2,450	2,850	3,450	2,450	3,200	3,450	3,950
Height [mm]	765	1,300	1,350	1,500	1,300	1,350	1,500	2,400
Weight [approx. t]	25	40	45	95	50	60	105	135

OPTIMIZED MAINTENANCE FOR INCREASED AVAILABILITY

Each and every component of our **X-TREME CLASS SIZER** has been designed to reduce downtime and ensure your machine is brought back into production as soon as possible using our **TAKRAF quick-release system**. When minutes count, make the most of every second!



MAINTENANCE

- Modular wear components are easy to handle and change-out procedures can be conducted in position
- An integrated moving unit enables the entire unit to slide into its maintenance position for safe and quick maintenance procedures
- Quick release crushing segments enable the targeted and efficient replacement of individual parts
- Bolted tooth system enables worn teeth to be replaced in seconds
- Split housing design enables the easy replacement of entire roll assemblies



SELECTING THE RIGHT SIZER MODEL

TAKRAF's in-house **Minerals Laboratory** conducts material tests across various conditions to determine factors such as material crushability and wear behavior. State-of-the-art simulation methods further support the selection of the most suitable sizer solution for your specific application.



AFTERMARKET / SUPPORT

TAKRAF provides comprehensive client support services all over the world. Moreover we are able to propose customized maintenance solutions such as spare part supply and stock management and/or maintenance contracts.



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