TAKRAF X-TREME CLASS SIZERS

Extending sizer limits
TAKRAF, a Tenova company, is an integrated solutions provider to the global mining, bulk material handling, minerals processing and beneficiation industries, offering innovative technological solutions as well as process and commodity knowledge along the industry value chains. With the integration of the well-known DELKOR and Tenova Advanced Technologies (formerly Bateman Advanced Technologies) brand of products into TAKRAF as specialized product lines, our portfolio for the minerals processing and beneficiation sectors has been considerably enhanced.

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.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Primary Sizer</th>
<th>Secondary Sizer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>X-TREME</td>
</tr>
<tr>
<td>Feed size [mm]</td>
<td>1,000 - 2,000</td>
<td>1,200 - 2,500</td>
</tr>
<tr>
<td>Product size [mm]</td>
<td>200 - 350</td>
<td>300 - 400</td>
</tr>
<tr>
<td>Throughput [t/h]</td>
<td>1,200 - 8,000</td>
<td>1,200 - 12,000</td>
</tr>
<tr>
<td>Max. UCS [MPa]</td>
<td>120</td>
<td>200 (280)*</td>
</tr>
<tr>
<td>Typical feed material</td>
<td>coal, shale, bauxite</td>
<td>overburden, iron ore, copper ore, oil sands, limestone</td>
</tr>
</tbody>
</table>

*subject to TAKRAF’s Minerals Laboratory tests
SELECTING THE RIGHTSizer 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.

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 pro duct 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

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

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

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

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.

GET YOUR PRODUCTION BACK

TAKRAF provides you with the best solution for your process, which may not always mean new equipment. We specialize in upgrading existing equipment using TAKRAF’s best-in-class technology. Whether your process is plagued by stalling, plugging, breakages, or insufficient wear life, we can help you minimize downtime and keep your equipment in production.
TAKRAF GmbH
Bahnhofstrasse 26
01979 Lauchhammer – Germany
T + 49 3574 854 334
F + 49 3574 854 100
takraf.service@tenova.com

www.takraf.com