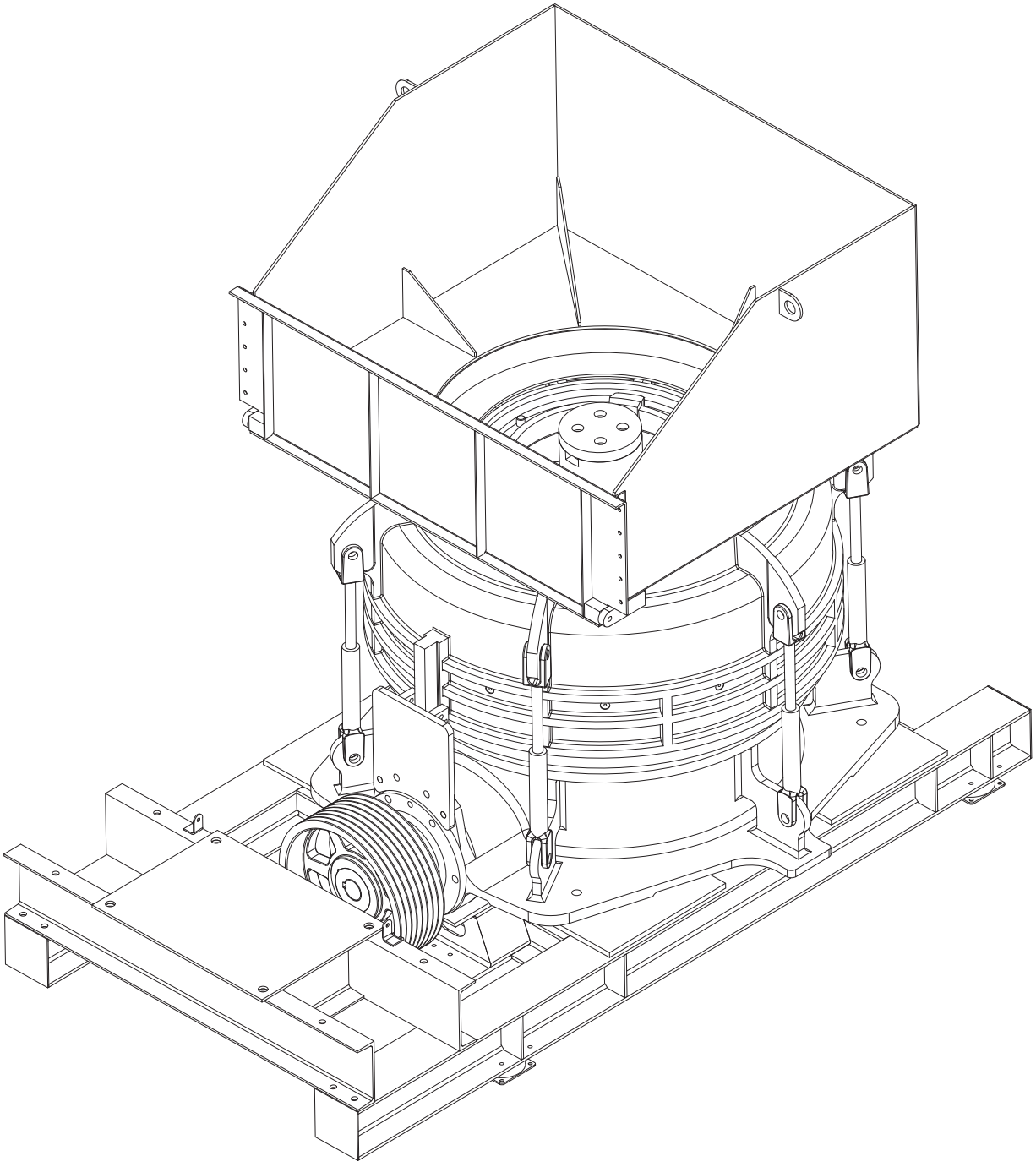
Taurian® MPS

CB Series™

CONE CRUSHER



A Legacy of Excellence

Taurian CB Series™ cone crushers were first introduced in 2019. They were introduced due to growing demand for product which is precisely to specification. The CB series™ features a unique roller and taper bearing design, along with hydraulic cylinders to maximise clamp down pressure. These dependable and powerful crushers excel in both quarrying and mining applications, making them a perfect solution for high-demand operations requiring precise crushing performance.

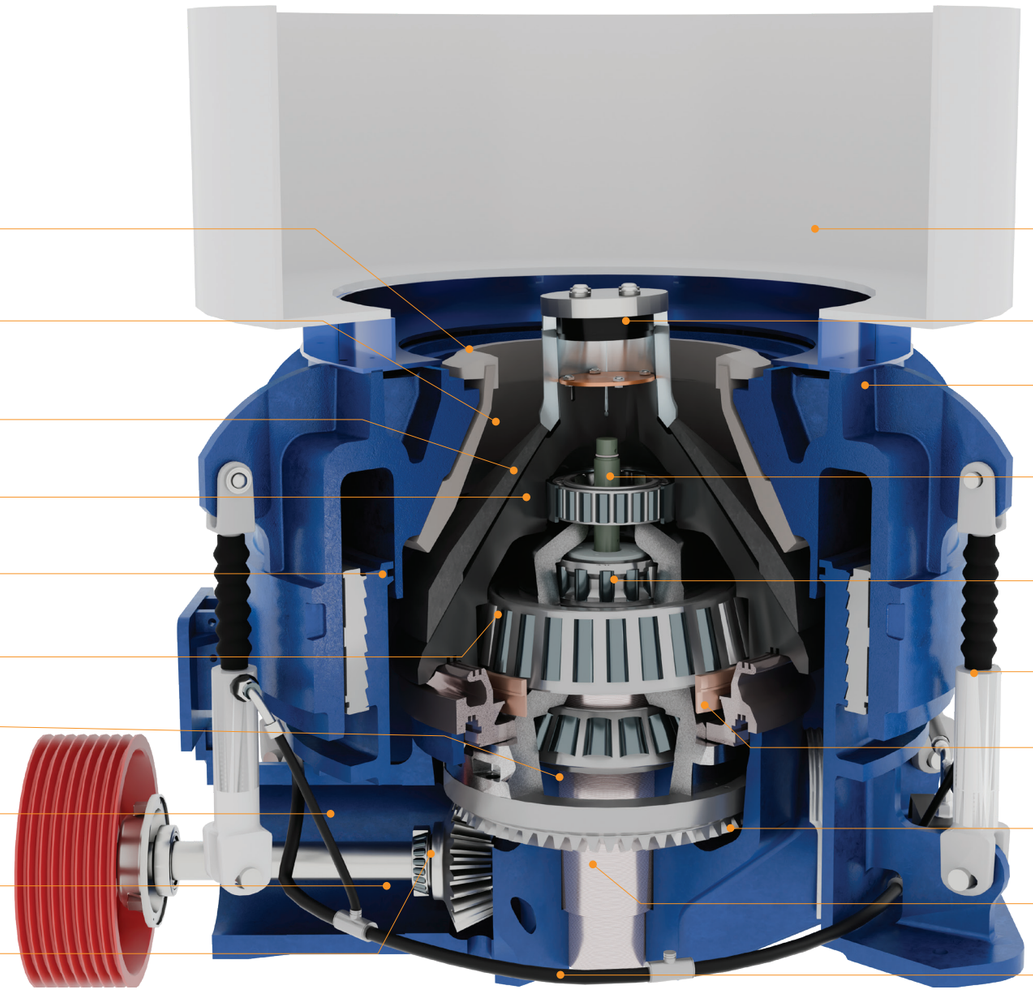
Engineered for Reliability and Ease of Use

Taurian CB Series™ cone crushers are engineered to provide predictable, trouble-free performance in the harshest environments. Featuring a straightforward design, they are easy to maintain, service, and operate safely. Their hydraulic systems allow for rapid adjustment and tramp iron relief, minimizing downtime while maintaining peak performance. Additionally, their modern roller-bearing design reduces friction and wear, ensuring smooth operation and extending component lifespan.

Trusted Performance Worldwide

The CB Series™ is a trusted solution for consistent high performance worldwide. From quarrying operations producing aggregates to mining sites processing ores, the CB Series has established itself as a dependable solution capable of delivering consistent high performance it has established as a reliable solution, offering durability and efficiency.

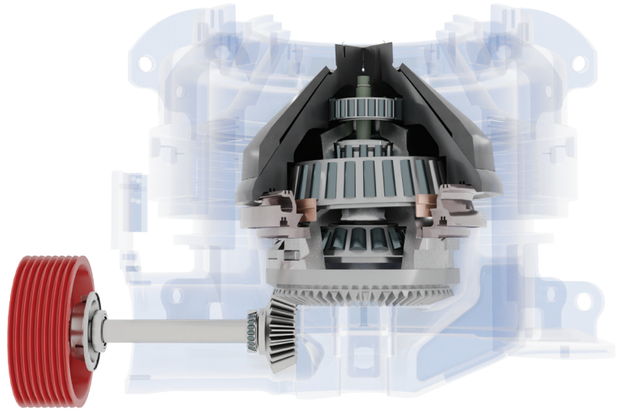
Designed for Maximum Productivity



The Roller Bearing Construction

A Technological Advantage

The Taurian CB Series™ Cone Crushers leverage a taper roller bearing construction that represents a significant technological advancement in cone crusher engineering. This design feature enhances the crushers' performance metrics, operational efficiency, and longevity, making them a preferred choice in high-performance crushing applications such as quarrying and mining.



Minimization of Kinematic Friction for Increased Mechanical Efficiency

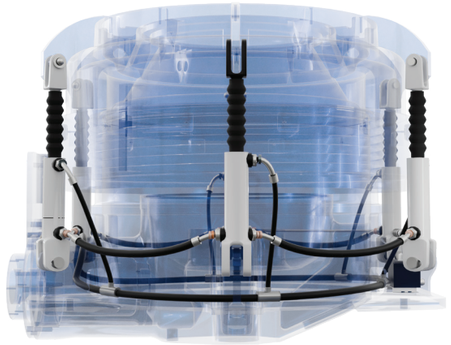
Roller bearings in cone crushers reduce sliding friction by enabling rolling contact, improving mechanical efficiency. This enhances energy utilization, dedicating more input power to crushing, boosting throughput, and ensuring higher overall performance compared to traditional bronze bushings.

Reduction in Power Losses and Improved Power Transmission:

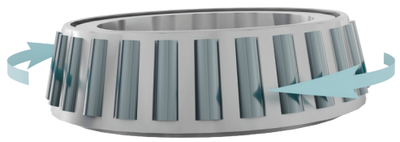
Roller bearings in the CB Series™ improve power transmission efficiency by reducing internal friction, maximizing energy utilization in crushing. This enhances performance and lowers operational costs, ideal for energy-sensitive applications like remote mining or aggregate plants.

The Swift CSS Adjustment System

CSS Adjustment / Unblock

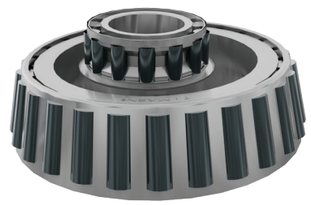


The Taurian™ CB Series cone crushers feature hydraulic cylinders for setting adjustments and unblocking, controlled by a push button. These cylinders allow quick, precise adjustments and fast chamber unblocking, minimizing downtime and ensuring efficient, continuous operation during blockages.



Increased RPM for higher throughput

Low-friction roller bearings in the CB Series cone crushers enable higher rotational speeds, reducing thermal stress. This increased velocity improves material flow through the crushing chamber, optimizing feed rates and throughput, making the crushers ideal for high-capacity, energy-efficient operations.



Absorption of Loads for Increased Stability

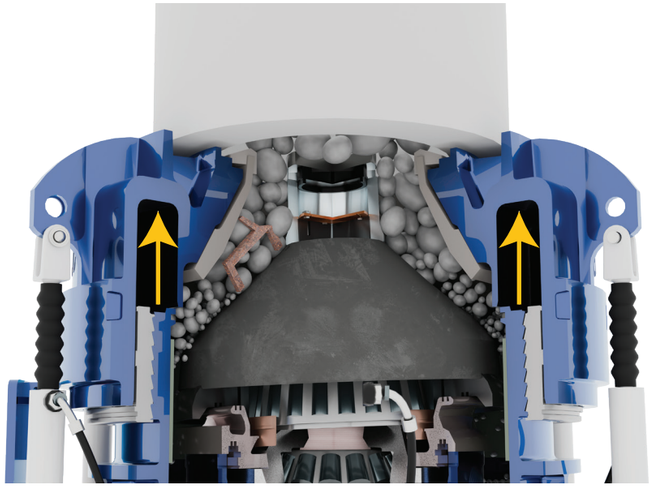
Roller bearings efficiently absorb dynamic loads, reducing vibrations and minimizing mechanical wear. This enhances motion predictability in the crushing chamber, ensuring consistent product gradation and controlled particle size distribution, vital for applications requiring precision in final product characteristics.

The Tramp Relief System

A Safety Advantage

Automatic Reset Functionality

The setting adjustment/unblocking facility in Taurian™ CB Series cone crushers features hydraulic cylinders controlled by a push button. These cylinders raise and lower the upper frame assembly, enabling quick and precise adjustments to the crusher setting. Additionally, they facilitate fast unblocking of the crushing chamber, minimizing downtime and ensuring continuous, efficient operation even when blockages occur during crushing operations.



Hydraulic Relief Cylinders

The hydraulic relief cylinders are the core components of the tramp relief system. These cylinders are designed to react to sudden spikes in pressure by quickly expanding, raising the crushing head and allowing tramp material to pass through the chamber without damaging the crusher's internal components.

Variable Pressure Settings

The hydraulic system includes adjustable pressure settings that allow operators to fine-tune the system based on the material being processed. For example, when dealing with more challenging materials that are prone to having tramp iron or large uncrushables, the pressure settings can be adjusted to ensure quicker relief and protection.

Case Study

Mr. Nikhil Dalvi,
Owner of Shree Tulja Bhavani

Taurian's CB 200 transformed our capabilities.
The reliability of the equipment and Taurian's support were instrumental in our success

CB 200 helped in Supplying 4,00,000 Tons of Aggregate for National Highway Project

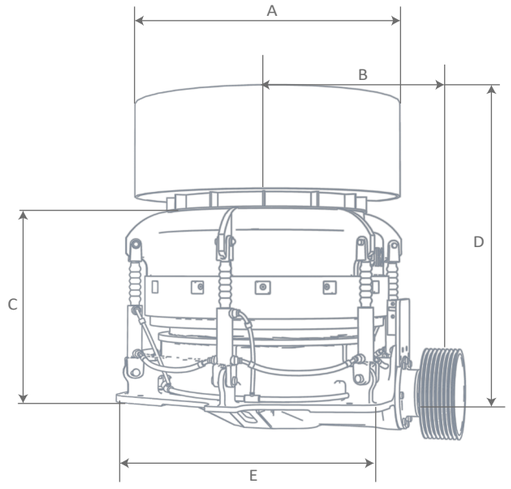
CHALLENGE: The river rock's MOHS hardness of 9 required a powerful, durable crusher capable of applying significant force for effective crushing.
The smooth, rounded river rock shape made it prone to escaping traditional crusher chambers, complicating the process of achieving an even crush.
The riverbed's tramp material, including metal and wood debris, posed a risk to crusher components, requiring effective tramp relief for safety and efficiency.

Solution: The CB 200 was selected for its hydraulic tramp relief system and automatic reset capabilities, allowing it to manage continuous tramp material influx without causing downtime, making it ideal for tough applications.
The flatter chamber profile improved crushing efficiency by gripping smoother rocks, reducing material loss and enhancing the crushing process.
The large wedge ring contact area and hydraulic locking pistons were vital for controlling CSS and preventing cone damage.

Overview: TBA Infrastructure faced significant challenges in processing river rock. The national highway project required 4,00,000 tons of aggregate with a project deadline of 18 months. and the required outputs being 10mm, 20mm and GSB.

Case Study Kashmir, Poonch

Technical Specification



Dimensions

Model	Unit	CB 200 mm	CB 300 mm
A	mm	1168	1410
B	mm	1160	1415
C	mm	1730	2268
D	mm	1525	2020
E	mm	2250	2375

Technical Specification

Model	CB 200 *(Short Throw)*	CB 200 *(Long Throw)*	CB 300 *(Standard)*
Feed opening	M 170 mm EC 205 mm	M 170 mm EC 205 mm	230 mm
Max feed size	F 63 mm M 160 mm EC 195 mm	F 63 mm M 160 mm EC 195 mm	F 63 mm 220 mm
Capacity	90-180 TPH	125-190 TPH	220-320 TPH
CSS range	16-32 mm	16-32 mm	22-32 mm
Motor	160 kW	170 kW	225 kW
Weight *(basic)*	10000 kg	10000 kg	22000 kg
Weight *(with motor, pulley, drive guard & V belts)*	12650 kg	12650 kg	26000 kg

CB 100 | Pune, Maharashtra

Fine Chamber - CSS and Capacities

Model		CB 200 *(Short Throw)*	CB 200 *(Long Throw)*	CB 300 *(Standard)*
Feed size		63 mm	63 mm	63 mm
Capacity	13 mm	70-100	85-120	165-185
	16 mm	80-110	95-130	180-200
	19 mm	85-125	100-150	195-220
	22 mm			210-240

Standard Chamber - CSS and Capacities

Model		CB 200 *(Short Throw)* Medium coarse	CB 200 *(Short Throw)* Extra coarse	CB 200 *(Long Throw)* Medium coarse	CB 200 *(Long Throw)* Extra coarse	CB 300 *(Standard)*
Feed size		160 mm	195 mm	160 mm	195 mm	220 mm
Capacity	13 mm					
	16 mm	90-110				
	19 mm	105-120	105-120	125-145		
	22 mm	115-140	115-140	140-170	140-180	220-255
	25 mm	120-150	135-160	145-180	165-195	235-275
	28 mm	130-160	145-170	155-190	175-205	250-295
	32 mm		150-180		180-220	260-320

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