

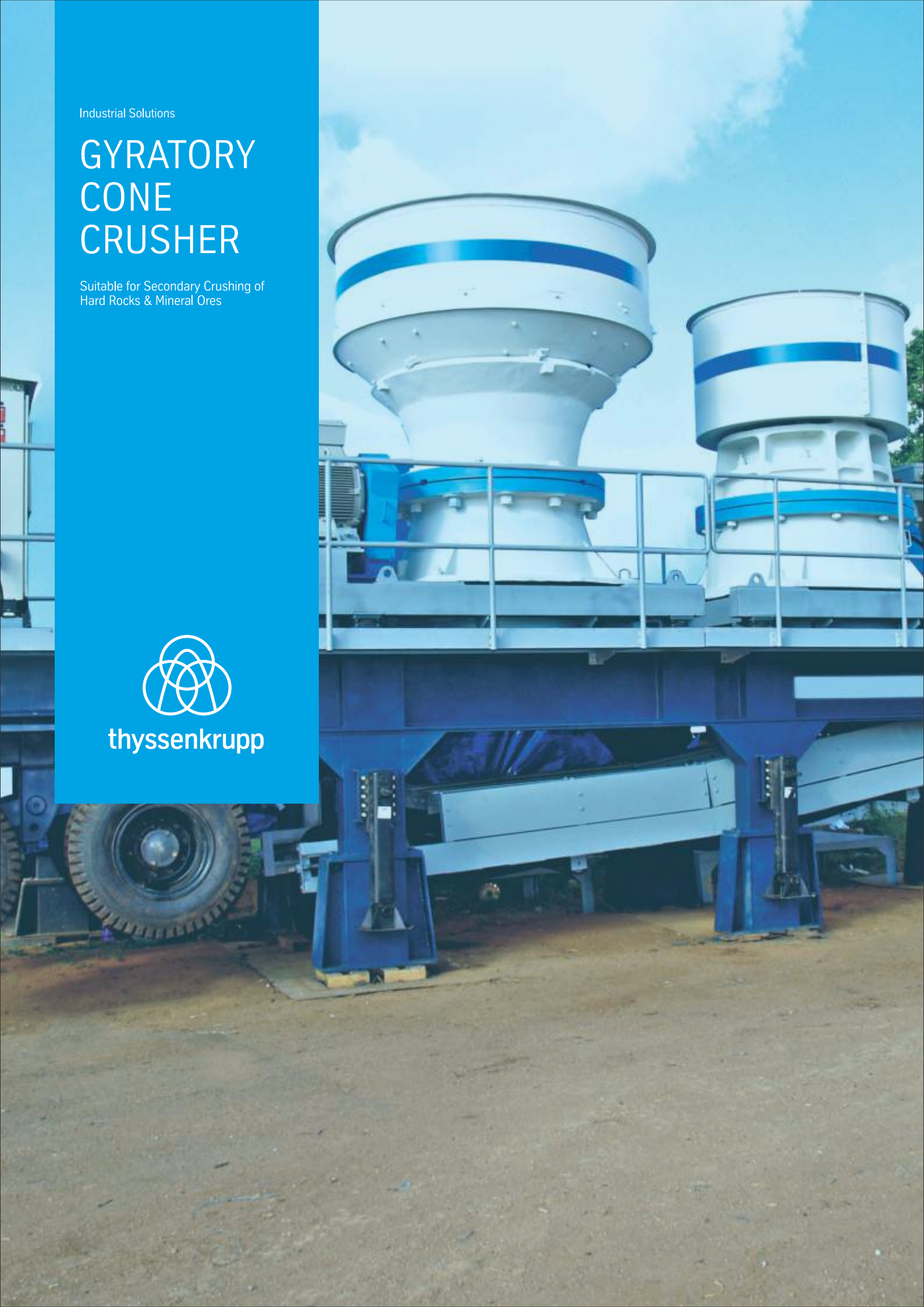
Industrial Solutions

# GYRATORY CONE CRUSHER

Suitable for Secondary Crushing of  
Hard Rocks & Mineral Ores



thyssenkrupp



## FEATURES

- Engineered for Larger Feed
- Well Defined Gyro Crushing Action
- Heavy and Sturdy Construction
- Large Throughput Volumes
- Uniform Sized Product
- Trouble-free Hydraulic Controls
- Simple Operation & Maintenance
- Low Power Consumption
- Lower Wear-per-Tonne

3000 GLH model is built for larger feed and capacity. It is sturdily built to withstand severe crushing loads generated by toughest of the rocks. The main body is made up of top and bottom shells of heavy cast steel sections, precision machined to receive the spider bearing, eccentric and counter-shaft assemblies.

The crushing chamber comprising of non-choking curved mantle and concave of high manganese castings, is designed to nip larger lumps of primary crushed rocks. And higher crushing volumes are achieved with evenly distributed wear.

The forged mainshaft of special steel is precision machined and fitted with a cast steel core on which the mantle is mounted. A positive dust seal arrangement effectively prevents ingress of dust from the crushing area into the eccentric bearing elements and bevel-pinion gear train.

The high precision gyro elements comprising of cast steel eccentric, set of inner and outer journal bearings of special metallurgy are driven through a bevel gear-pinion and counter-shaft assembly running on antifriction bearings. The eccentric and mainshaft are supported at bottom end by hydraulic

pressure through a set of thrust plates for taking the vertical loads.

A hydro-lube system incorporates all machine-safe controls. The lube pump circulates and lubricates the gear train, main & counter shaft bearings. The hydraulic circuit ensures smooth CSS adjustment and trouble-free operation of the crusher. The spider bearing in the top shell is grease-lubricated either manually or by an automated grease pump (optional).

## TECHNICAL FEATURES

- Sturdy mainframe - heavily built cast steel top shell and bottom shell
- High tensile heat-treated alloy main shaft, precision machined and shrink-fitted with a cast steel core
- High precision gyro-components - cast steel eccentric, specialized journal bearings, high carbon-steel bevel gear & pinion, special metallurgy thrust plates - all designed to minimize wear and friction
- Spherical plain spider bearing assembly, grease lubricated for effortless fulcrum action and free rotation of the main shaft
- A full-proof dust steel arrangement for effective protection of eccentric bearing and gear-pinion
- Catridged counter-shaft assembly in roller bearings adequately lubricated from auto-lube system
- A compact and combination hydro-lube power pack with inbuilt safety features for trouble free operation
- Long and steeply tapered crushing chamber for larger secondary crushing volumes
- Improved wear-resistant manganese mantle and segmented concave, both secured by positive lock-tight fitting with an epoxy backing



## BENEFITS

The 3000GLH cone is specially designed for secondary crushing applications, and offer substantial benefits over others:

- Bigger Feed Size
- Larger Tonnage
- Uniform Product Size
- Longer Life
- Trouble Free Operation
- Ease of Maintenance

## APPLICATION AREAS

Secondary crushing of a variety of hard stones and minerals:

- Granite
- Basalt
- Quartzite
- Limestone
- Iron ore
- Manganese ore etc

## CRUSHER THROUGHPUT CAPACITY

FEED OPENING (mm)	SPEED (gpm)	STROKE (mm)	POWER (kW)	THROUGHPUT (metric tons per hour)						
				CLOSED SIDE SETTING (CSS) - mm						
				30	34	38	42	46	50	55
350	290	25	110	190-215	210-240	230-260	250-280	265-300	290-310	305-330

Capacities shown are when the cone is installed in an open circuit and indicative only, based on a dry bulk density of 1600 kg/cu m of crushed stone; they vary with feed material characteristics, feed gradation and percentage of fraction below CSS in the feed.

thyssenkrupp Industries India

Pune  
Standard Machines Business  
Pimpri, Pune - 411 018, Maharashtra, India  
P: +91 20 2742 5461-64  
F: +91 20 2742 5350  
Email: contactus.tki@thyssenkrupp.com

Hyderabad  
Standard Machines Business  
Survey Nos: 212-215, IDA, Phase - II,  
Cherlapally, Hyderabad - 500 051, Telangana, India  
P: +91 40 2726 3647 / 3540 / 2762 / 3015  
F: +91 40 2726 3162  
Email: smb.tki@thyssenkrupp.com

www.thyssenkrupp-industries-india.com

engineering. tomorrow. together.