

# TRIO® TC Cone Crusher

Model: TC5



## Minerals

### TRIO® TC New Generation Cone Crushers:

#### Applications

- Secondary and tertiary stage crushing circuits
- Crushing to make specification size and/or shape for aggregates
- Crushing Ore for leaching or milling operations

#### Sizes/Availability

Three models of the new generation TRIO® TC cone crusher are available, including TC5, TC6 and TC8



## TRIO® Model TC5 Cone Crusher

The new generation TRIO® TC cone crushers are proven rugged and reliable extreme duty crushers with a design that is universally accepted as the global standard for reliable secondary and tertiary crushing.

This new generation of TC Cones are an extreme duty version of the legacy series with a larger main shaft, thicker countershaft/main frame cross section, steeper head angle, and countershaft speed increase. In addition to the physical size increase the New Generation TC Series Cones employ significantly more horsepower to utilize the increased stroke and head angle making them among the most productive cone crushers available.

A universal support bowl and mantel head compatible with all liner configurations from the coarsest to the finest, maximizes this crusher's application flexibility. The TC5, 6 and 8 Series offer lower energy consumption per tonnage produced and low liner wear rates.

Weir Minerals uses advanced materials and manufacturing processes to improve service life of critical components and lower maintenance and operating costs.

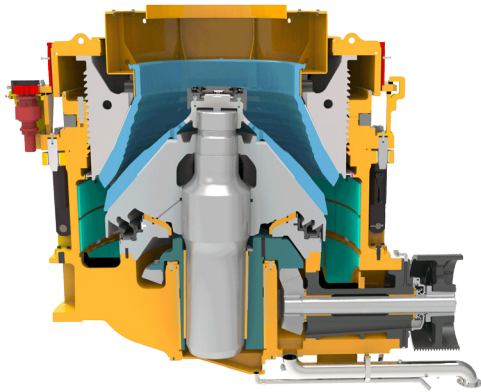


TRIO®TC6 new generation cone crusher operating at an Iron Ore mine in Northeast Asia.

#### Features

- Adjustment: Threaded bowl with hydraulic gear drive allowing for precision "CSS" adjustment
- Operating Controls: Fully integrated hydraulic console with push button control for clamping, clearing and adjustment 15 kW (20 HP) hydraulic pump
- Lubrication: Self-contained, climate controlled oil lubrication skid with integrated PLC automatic shutdown sensors lube pump 11kW (15 HP), cooling fan 7.5kW (10 HP), heater 3.7kW x 3
- Bearings: Precision machined bronze bushings with additional oil porting provide superior load carrying ability
- Gearing: Spiral cut bevel gear set using induction hardened gears and carburized pinions ensure quiet, smooth and more efficient horsepower transmission
- Frame: Cast high strength alloy steel

# TRIO® TC Cone Crusher



## TRIO® TC5 cone crusher specifications

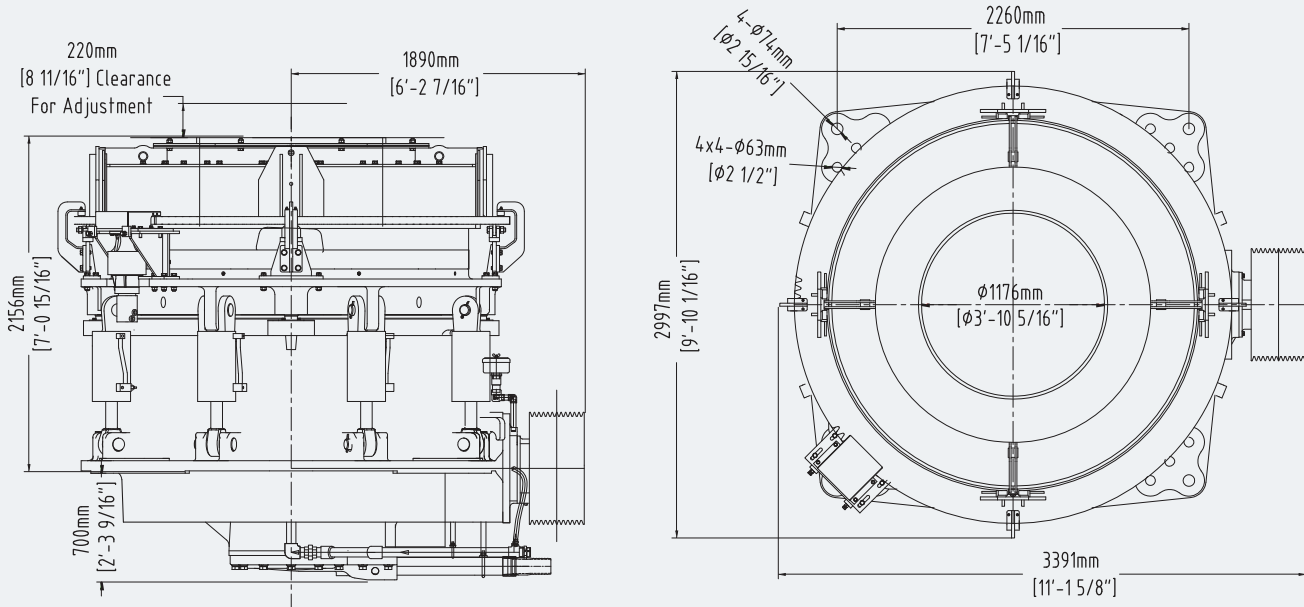
Head Diameter:	1575mm (63")
Machine Weight:	42,500 kg (93,500 lbs)
Max Feed Opening:	275mm (11") with Secondary Chamber
Max Feed Opening:	110mm (4-1/2") with Tertiary Chamber
Required Power:	355kW (500 HP) Electric Motor
Countershaft Speed:	625 to 690 RPM

## TC5 cone crusher capacity chart

Closed Side Setting mm	6	10	13	25	32	38	64
Capacity in MTPH	110-170	160-230	210-290	330-430	375-490	400-570	630-830

## TRIO® TC5 cone crusher general arrangement drawing

Note: Indicated Capacity is neither minimum or maximum values. Actual capacity will depend on eccentric speed, chamber selection, and feed parameters. Assumed ore characteristics for indicated capacity is free flowing material, moderate hardness and bulk density exceeding 1.6 metric tons per cubic meter. For best results, operating crusher chamber full is recommended. However, all TC Series Crushers accept reasonable variations in feed rates.



Drawings not to scale.  
Specifications may not be representative  
of most recent upgrades and changes.

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Weir Minerals

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