



**ENGINEERED PRODUCTS**

# TC SERIES CONE CRUSHERS

## TC - 66 STANDARD

**Engineers and Manufacturers of Washing, Vibrating and Crushing Equipment**

### Description

Trio's TC Series cone crushers are well-engineered, traditionally designed bushing crushers that provide an optimal combination of proven cone crusher technology and modern, user friendly adjustment and relief systems.

Trio TC cones are equipped with a hydraulic tramp release system which incorporates a remote accumulator. The threaded bowl assembly is easily adjusted with a hydraulic motor which provides trouble free performance.

With off-the-shelf parts available from a variety of suppliers, the TC models also have many mechanical features that will be familiar to existing cone crusher users. The TC models are available in standard and short head configurations.

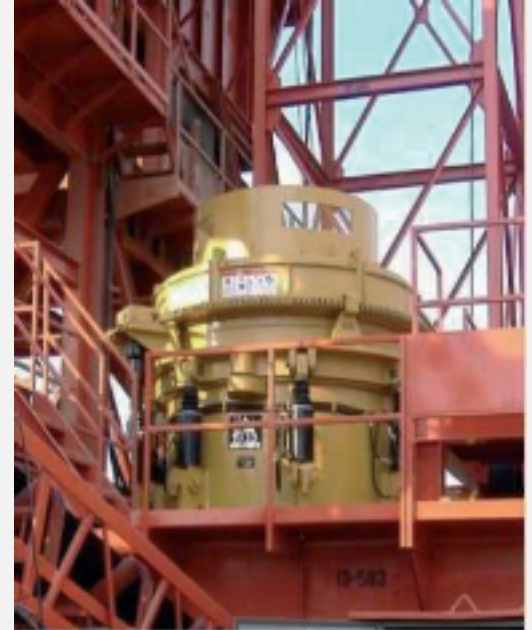
Like all Trio products, this equipment is backed with the company's standard one-year warranty and continuing service commitment. The Trio TC cone crushers are available exclusively through a number of value added retail distributors.

### Mechanical Features

- Proven and reliable bushing design
- Consistent setting around entire circumference of the crushing chamber
- Low setting drift and effective tramp release system utilizing modern hydraulic and lubrication designs
- Advanced liner retention system for increased reliability.

### Application and Interchangeability

- Easily adapted to any application by selecting proper mantle, bowl liner.
- Designed to provide interchangeability of the critical parts among other standard popular cones.
- Full Automation possibilities such as plant DCS system.



### Maximized Capacity and Yield

- Maximized capacity using proven designs.
- Enhanced speed option available to increase the capacity by up to 20%.
- Setting options available to enhance the yield i.e. high percentage of the specified product.

### Maximized Production

- Avoid stalling during tramp iron passing using dual action hydraulic tramp release system
- Fine control setting adjustment and easy liner changeover with the help of hydraulic motor
- Reduced liner damages with the latest liner retention technology

### Low Maintenance / Operation Cost

- Bronze bushing provides long life and low cost replacement
- Modular design provides easy accessibility to the internal parts from the top and the sides
- Robust sealing system along with the easy replacement
- Advanced materials and processes improve the service life of critical crusher components

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### Liner Selection

	Secondary		Tertiary	
	Min. Setting	Feed Open.(OS)	Min. Setting	Feed Open.(OS)
	Inch ( mm)	Inch ( mm)	Inch ( mm)	Inch ( mm)
<b>Ex-Coarse</b>	1 1/2" (38)	14 1/2" (370)	1/2" (13)	6" (150)
<b>Coarse</b>	1" (25)	10 3/4" (270)	3/8" (10)	5 1/4" (133)
<b>Medium</b>	7/8" (22)	9 5/8" (240)	1/4" (6)	3 1/2" (90)
<b>Fine</b>	5/8" (16)	8 3/8" (210)	3/16" (5)	2 3/4" (70)

Note : Maximum feed size should be 80% of the open side(OS) feed opening

### Open Circuit Maximum Capacities

	TPH	Closed Side Setting – Inches(mm)								
		1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4 "	1 1/2 "	2 "
		6mm	10mm	13mm	16mm	19mm	25mm	32mm	38mm	50mm
<b>Standard Speed</b>	Short	145	185	240	295	330	345	365	425	500
	Metric	132	165	220	270	300	315	330	385	455
<b>Higher Speed</b>	Short	170	220	285	355	400	420	450	525	620
	Metric	155	200	260	320	365	380	410	475	565

### Product Gradations - Percent Passing

Product Size	Closed Side Setting – Inches(mm)																
	(Note: Figures for 1/4" to 3/4" Closed Side Settings are for closed circuit application and the rest are for the open circuit application)																
	STANDARD SPEED								HIGHER SPEED								
Inch mm	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
<b>4" (100)</b>								100									100
<b>3" (75)</b>							100	90								100	90
<b>2 1/2" (64)</b>							100	90	80						100	90	80
<b>2" (50)</b>					100	90	80	60						100	90	80	60
<b>1 1/2" (38)</b>				100	90	80	60	46				100	90	80	70	46	
<b>1 1/4" (32)</b>				90	80	60	46	30				90	80	70	50	30	
<b>1" (25)</b>			100	85	60	43	30	20			100	85	70	51	30	24	
<b>3/4" (19)</b>		100	85	60	40	29	20	14		100	90	70	50	31	24	17	
<b>1/2" (13)</b>	100	85	60	35	22	17	14	11	100	90	70	50	30	24	17	12	
<b>3/8" (10)</b>	85	60	40	22	16	13	11	7	90	70	50	31	22	17	12	8	
<b>1/4" (6)</b>	60	35	22	14	11	9	7	5	70	50	31	22	16	12	8	5	
<b>4# (5)</b>	40	22	16	11	8	7	5	3	50	30	22	17	12	8	5	3	
<b>6# (3)</b>	24	15	12	8	6	5	3	2	32	22	17	12	8	5	3	2	
<b>8# (2)</b>	16	11	8	6	4	3	2	1	22	17	12	8	5	3	1	1	

Note 1: The values are for the average feed material with WI = 12 to 14

Note 2: The values in the above tables will vary with the method of feeding, feed distribution, feed segregation, crushing cavity, bulk density, fines in the feed, moisture content, fracture characteristics, speed, etc. Consult Trio Engineered Products, Inc. for more accurate estimate.

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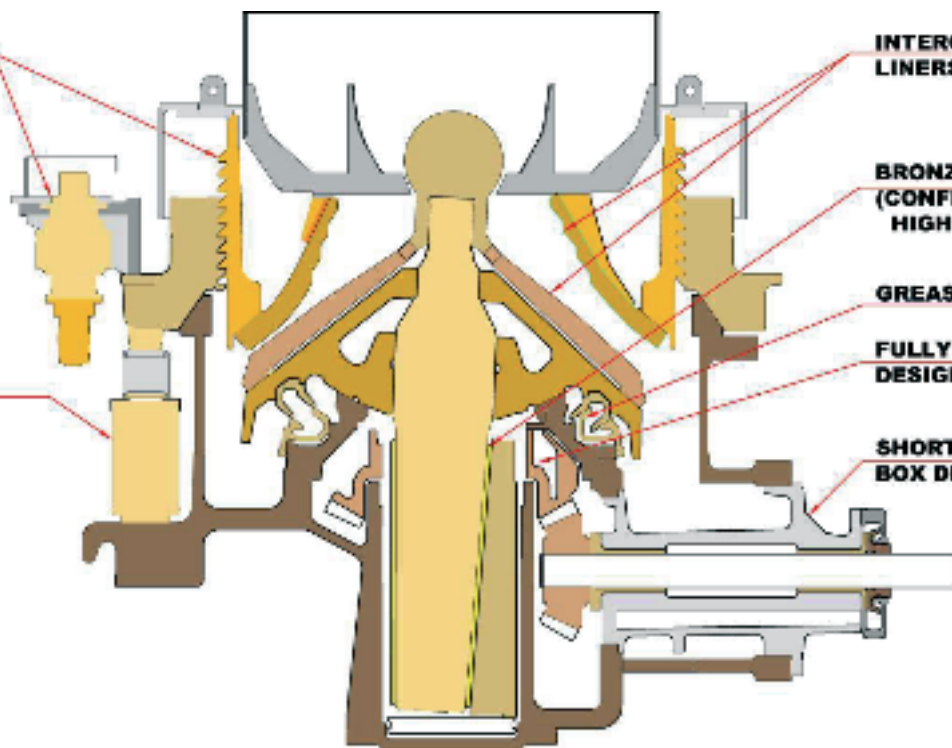
## TC - 66 STANDARD

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### Standard Head

**GEAR ADJUST WITH HYDRAULIC DRIVE**

**HYDRAULIC SYSTEM FOR SIMPLE RELEASE AND CLEARING**



**INTERCHANGEABLE LINERS**

**BRONZE BUSHING (CONFIGURABLE FOR HIGHER SPEED)**

**GREASE SEAL**

**FULLY BALANCED DESIGN**

**SHORT COUNTERSHAFT BOX DESIGN**

DESCRIPTION	STANDARD SPEED		HIGHER SPEED	
	US	METRIC	US	METRIC
<b>Speed</b>	485 RPM	485 RPM	550 RPM	550 RPM
<b>Power</b>	350 HP	250 Kw	350 HP	250 Kw
<b>Weight</b>	106000 Lbs	48000 kg	106000 Lbs	48000 kg
<b>Size</b>	155x116x130"	3930x2950x3300mm	155x116x130"	3930x2950x3300mm

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