



ENGINEERED PRODUCTS

TC SERIES CONE CRUSHERS

TC - 51 FINE

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
- Threaded bowl for more consistent CSS maintenance
- 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

TRIO Equipment Europe Ltd., Clonminam Industrial Park, Portlaoise, Co. Laois, Ireland.

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Liner Selection

Liner Type	Secondary		Tertiary	
	Min. Setting Inch (mm)	Feed Open.(OS) Inch (mm)	Min. Setting Inch (mm)	Feed Open.(OS) Inch (mm)
Ex-Coarse	1" (25)	10 3/8" (260)	5/8" (16)	5 1/4" (135)
Coarse	3/4" (19)	9 5/8" (240)	5/16" (8)	4 1/8" (105)
Medium	5/8" (16)	8 1/4" (210)	1/4" (6)	3 1/2" (90)
Fine	1/2" (13)	5 3/8" (140)	1/8" (3)	2 1/2" (65)

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

Open Circuit Maximum Capacities

	TPH	Closed Side Setting – Inches(mm)						
		1/8" 3mm	1/4" 6mm	3/8" 10mm	1/2" 13mm	5/8" 16mm	3/4" 19mm	1" 25mm
Standard Speed	Short	40	70	110	160	180	200	225
	Metric	36	63	100	145	163	181	205
Higher Speed	Short	45	80	130	190	215	240	270
	Metric	40	72	118	172	195	218	245

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	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1/8"	1/4"	3/8"	1/2"	3/4"	1"
4" (100)	3	6	10	13	19	25	3	6	10	13	19	25
3" (75)												
2 1/2" (64)												
2" (50)						100						100
1 1/2" (38)					100	90					100	90
1 1/4" (32)					90	80					90	80
1" (25)				100	85	60				100	85	70
3/4" (19)			100	85	60	40			100	90	70	50
1/2" (13)		100	85	60	35	22		100	90	70	50	30
3/8" (10)	100	85	60	40	22	16	100	90	70	50	31	22
1/4" (6)	85	60	35	22	14	11	90	70	50	31	22	16
4# (5)	60	40	22	16	11	8	70	50	30	22	17	12
6# (3)	35	24	15	12	8	6	50	32	22	17	12	8
8# (2)	22	16	11	8	6	4	31	22	17	12	8	5

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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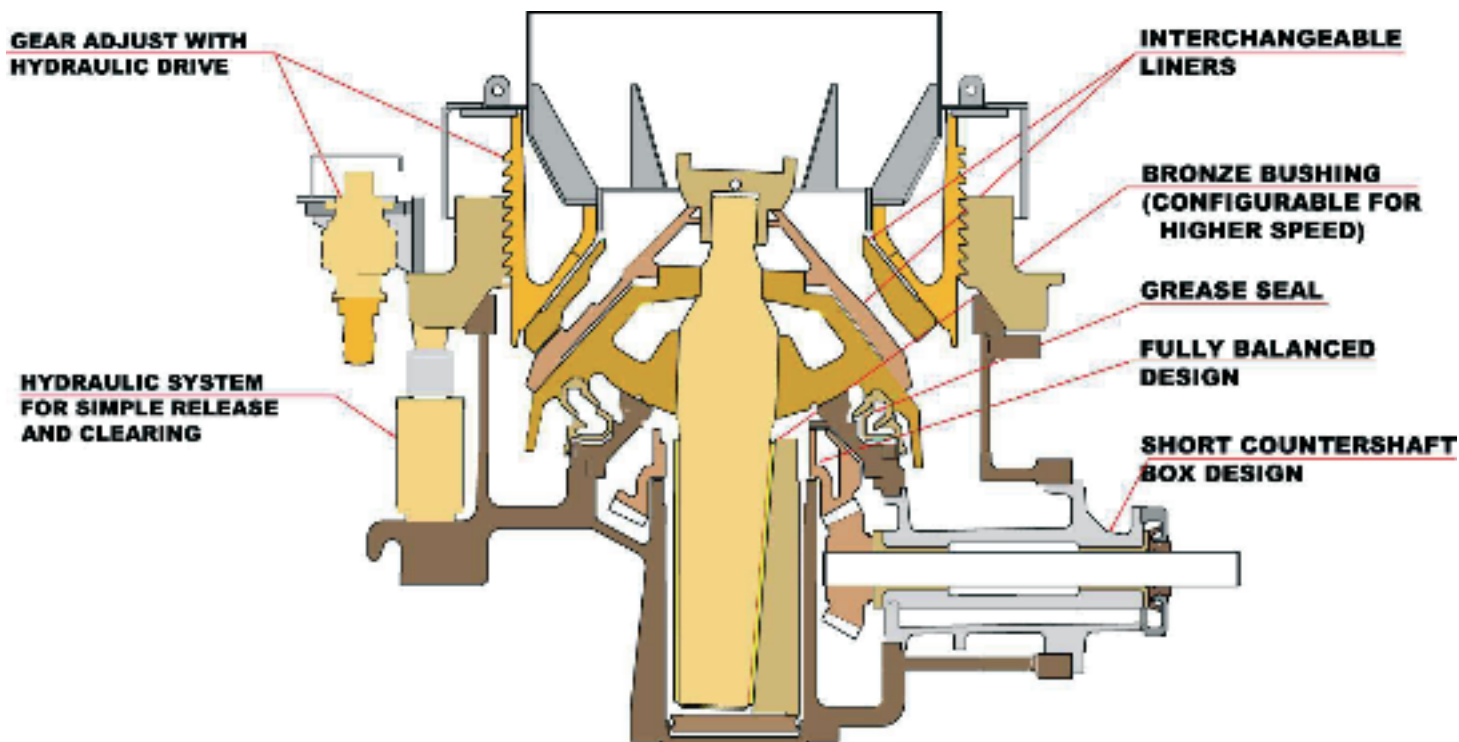
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Short Head



DESCRIPTION	STANDARD SPEED		HIGHER SPEED	
	US	METRIC	US	METRIC
Speed	485 RPM	485 RPM	550 RPM	550 RPM
Power	200 HP	160 Kw	250 HP	200 Kw
Weight	55000 Lbs	25000 kg	55000 Lbs	25000 kg
Size	126x92.5x105.5"	3200x2350x2680mm	126x92.5x105.5"	3200x2350x2680mm

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