

T-SERIESTM CONE CRUSHERS

PRODUCTIVE ■ RELIABLE ■ SAFE



T300

T400

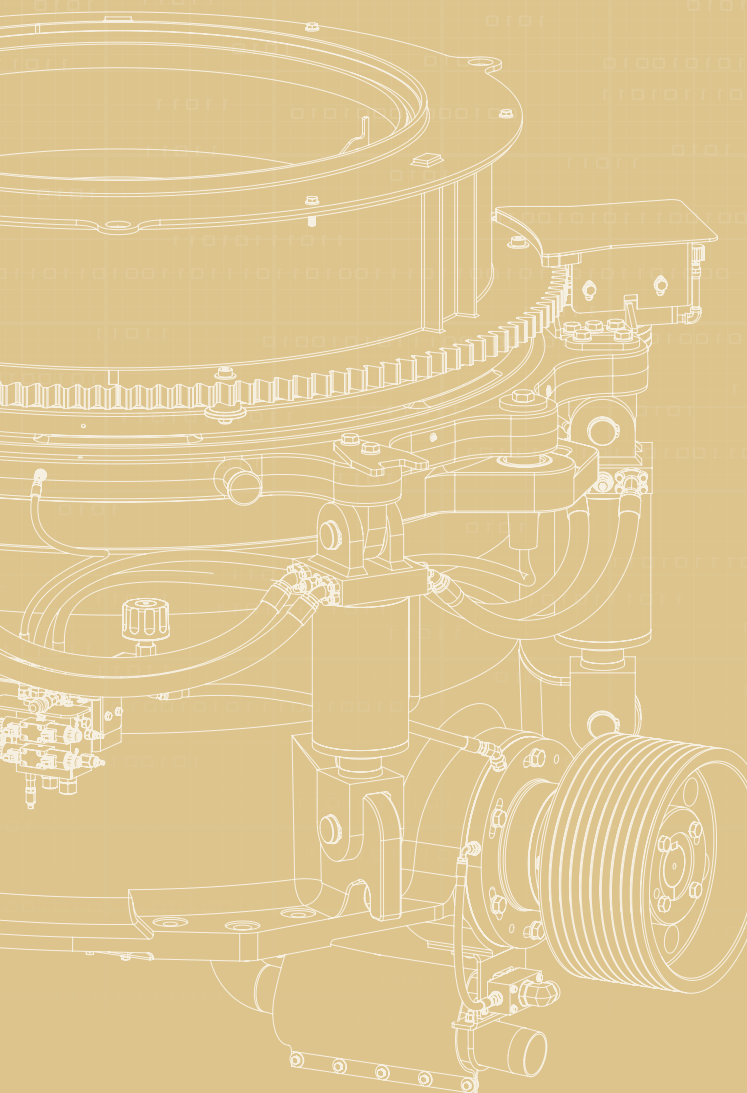
T900



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T-SERIES™ CONE CRUSHERS OVERVIEW



T200
T300 T400
T500 T700
T900 T1250



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Telsmith T-Series™ Cone Crushers are engineered to deliver un-compromising productivity, safety and ease of maintenance for maximum uptime in tough, abrasive aggregate and mining applications.

- Currently available in 3 sizes (T300, T400, & T900)
- Output capacities ranging from 110 to 2,100 metric tons per hour (depending on desired final output size)
- Up to a 381mm (15-inch) feed size, rated largest-in-class clearing stroke
- 220kw (300hp) to 660kw (900hp) performance, highest-in-class crushing force

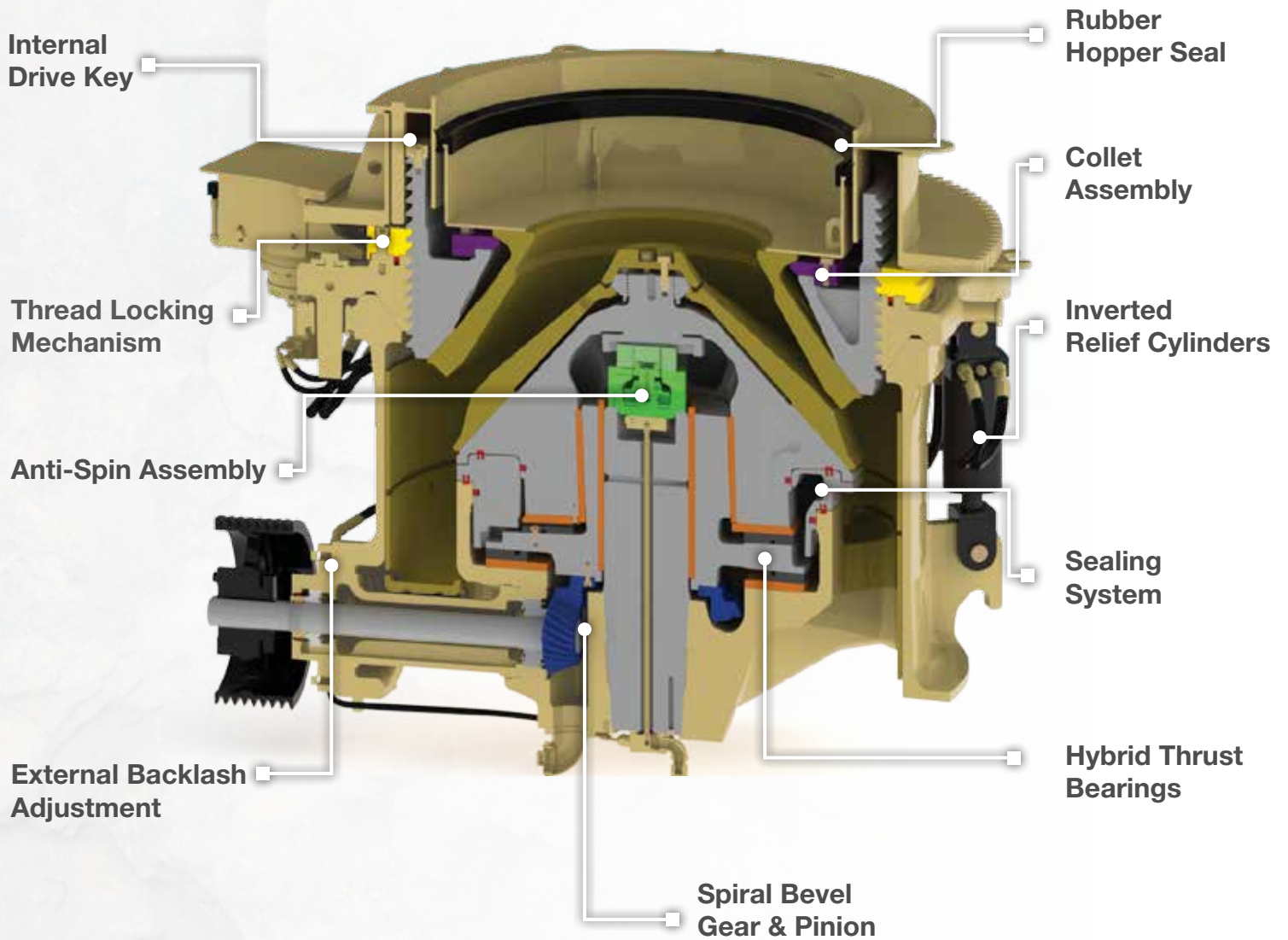
T-Series™ Cone Crushers have large clearing circuits, and are designed to safely and quickly allow uncrushable materials to pass, avoiding costly damage and associated downtime for repairs.

A patent-pending, anti-spin feature prevents head spin to help extend manganese service life. Like other key components, it's mounted on top of the machine for safe, top-service access. T-Series™ Cone Crushers anti-spin operates with pressure lubrication oil, eliminating the need for a gear box, separate hydraulic circuit and associated maintenance.

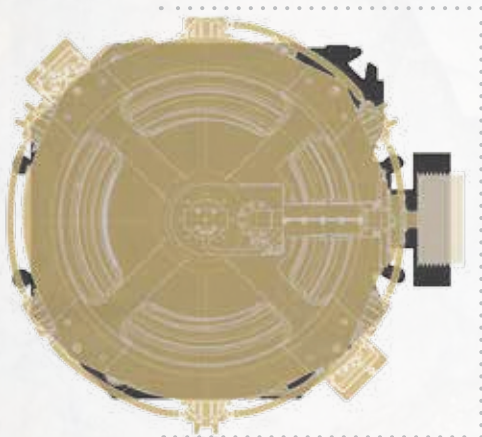
The use of a single bowl for all liners over its range of operation helps reduce downtime and inventory costs while allowing optimum versatility, flexibility, and efficiency in any aggregate application.

T-Series™

CONE CRUSHER FEATURES

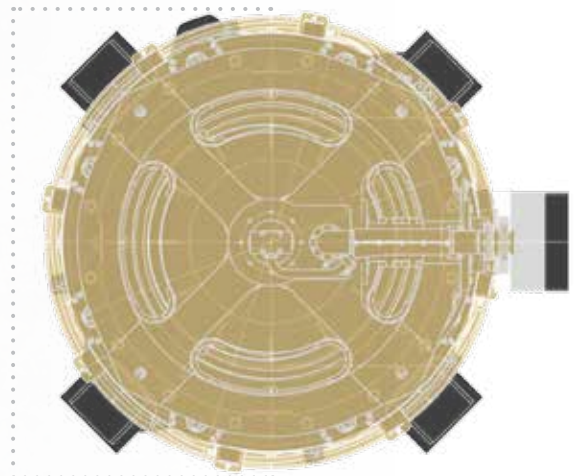


Identical Mounting Footprint To Competition



Replace existing crushers within same footprint

- Shorter than competition
- Equally as strong
- FEA Stress Analysis



Hydraulic Relief and Clearing

Large clearing circuits safely and quickly allow uncrushable materials to pass;

Fewer cylinders help reduce maintenance costs

- T300 – 6 Cylinders
- T400 – 6 Cylinders
- T900 – 8 Cylinders

Inverted relief cylinders stay cleaner longer, extending life of seals

Top-service for tramp cylinder maintenance

- Located above-deck, at standard work height for safe repair or replacement

No accumulators – Patent pending, **nitrogen-free** release system eliminates associated maintenance and costs required with hydraulic accumulators

Largest in-class clearing stroke

- T300 – 178mm (7.0")
- T400 – 178mm (7.0")
- T900 – 254mm (10.0")

Hydraulic Anti-Spin System

Patent-pending, anti-spin system prevents head spin to extend manganese life. An automatic reset feature requires no parts replacement or repair time, since shear bolts are not used in this assembly.

Benefits

- Compact design
- Hydraulic restraint
- Uses cone-lube oil
- Automatic reset
- Less parts /repair cost
- More torque capacity
- More flow capacity
- Less wear (*Close to pivot*)

TRAC10[®]

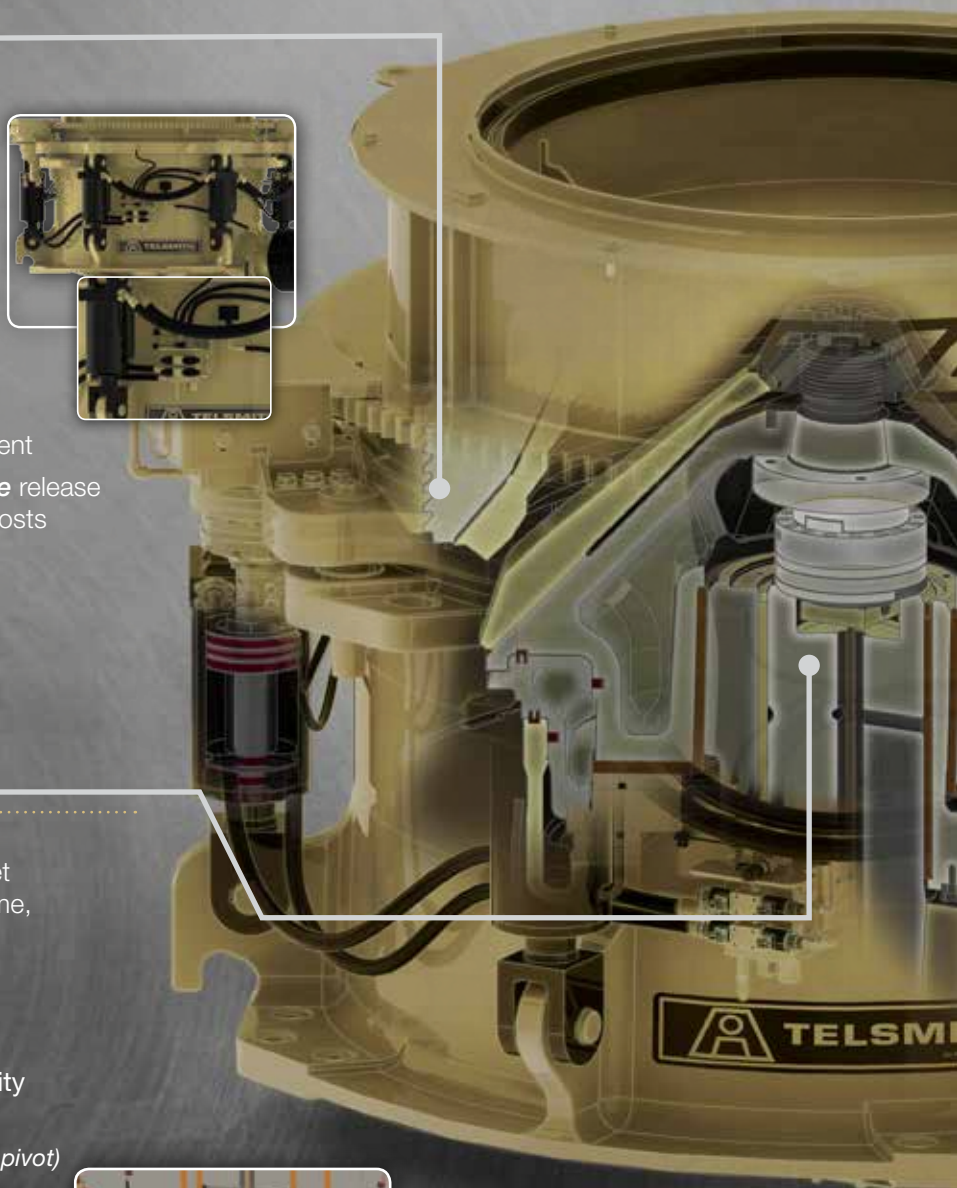
Combined as a standard feature on T-Series™ Crushers, the proven TRAC10[®] control system allows integration into the network of any plant control system, regardless of type or brand!

The TRAC10[®] system allows even the most demanding tasks in the areas of controls engineering and motion control to be combined into a single network and provides an ideal foundation for future upgrades and modular machine concepts.



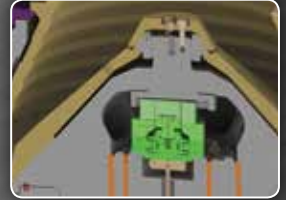
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Hybrid Thrust Bearing Technology

Patent-pending hybrid bearings improve both static and dynamic lift. This design provides the ability to crush at lower horsepower from improved lift that helps carry the crushing forces, when compared to roller bearing machines. Hybrid bearings replace conventional socket, socket liner and head ball design with a simplified washer and ramp design, for increased service life and quick, easy repair.



Benefits

- More stable cone head
- High-capacity
- Less friction
- Allows easy, more frequent bearing inspection
 - Less costly to repair/replace
 - No socket liner
 - No upper head bushing
 - No head ball
 - No socket

Eccentric Assembly

- More balanced design
- Eccentric removal is quick and easy,
 - No socket or socket liner to remove
- Setting adjustments machined for smooth operation

Adjustment Threads with Patent Pending Thread Scraper

Benefits

- Shorter for a lighter (not weaker) crusher
- Keeps contaminants out of system
- Direct loading of bowl

Concave Retaining System

A patent-pending concave (bowl liner) retention system consists of a specially-design and positioned collet that centers the bowl to achieve retention without the use of hammers and other hand tools. The system's easy-to-service lip ring helps keep the concave centered using jack-bolts and an impact or torque wrench.

Benefits

- Reusable
- Installed with power tools
- Predictable loading

Features include the capability to run up to four crushers with a single touch-screen and the ability to connect to TRAC10® via a Wi-Fi hotspot and laptop, or Smartphone.

- “Auto-wear” keeps track of liner wear and makes adjustments on-the-fly, without operator input.
- “Auto-power” feature automatically maintains the desired horsepower level on the crusher(s).



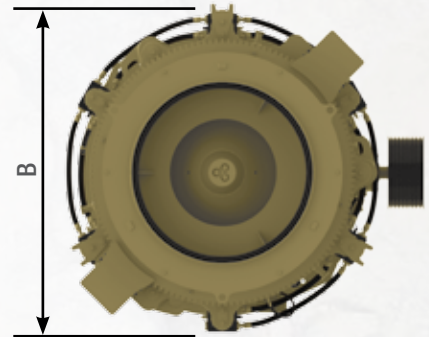
DIMENSIONS & SPECIFICATIONS

T-Series™ Cone Crusher Capacities

Crusher Model	CSS	Crushing Capacities								
		Crushing Capacities - Total throughput at discharge setting (CSS)								
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"
		(10 mm)	(13 mm)	(16 mm)	(19 mm)	(25 mm)	(32 mm)	(38 mm)	(45 mm)	(51 mm)
T300	mtph	111 - 144	135 - 180	162 - 212	180 - 234	221 - 288	257 - 333	288 - 374	324 - 410	N/A
	stph	123 - 160	150 - 200	180 - 235	200 - 260	245 - 320	285 - 370	320 - 415	360 - 455	N/A
T400	mtph	135 - 180	158 - 203	185 - 239	207 - 270	252 - 329	299 - 378	329 - 428	369 - 477	410 - 527
	stph	150 - 200	175 - 225	205 - 265	230 - 300	280 - 365	320 - 420	365 - 475	410 - 530	455 - 585
T900	mtph	500 - 580	544 - 644	590 - 710	637 - 776	809 - 1074	1010 - 1275	1213 - 1476	1400 - 1800	1612 - 2134
	stph	550 - 640	600 - 710	650 - 780	700 - 850	890 - 1180	1110 - 1400	1330 - 1620	1540 - 1980	1775 - 2350

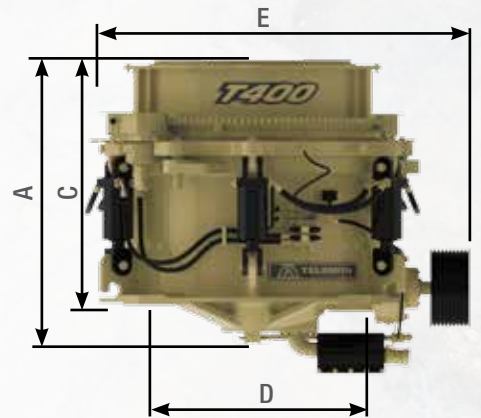
T300 Chamber Profiles

Bowl	Recommended Minimum Closed Side Setting (CSS)		Feed Opening at Minimum Closed Side Setting			
			Open		Closed	
No. 2	10 mm	.39"	83 mm	3.3"	39 mm	1.5"
No. 3	13 mm	.50"	105 mm	4.1"	67.5 mm	2.7"
No. 5	20 mm	.79"	139 mm	5.5"	105 mm	4.1"
No. 6	26 mm	1.02"	179 mm	7.1"	147 mm	5.8"
No. 9	38 mm	1.50"	240 mm	9.4"	212 mm	8.4"
No. 11	45 mm	1.77"	290 mm	11.4"	264 mm	10.4"



T400 Chamber Profiles

Bowl	Recommended Minimum Closed Side Setting (CSS)		Feed Opening at Minimum Closed Side Setting			
			Open		Closed	
No. 2	10 mm	.39"	94 mm	3.7"	45 mm	1.8"
No. 3	12 mm	.47"	105 mm	4.1"	57 mm	2.2"
No. 4	16 mm	.63"	128 mm	5.0"	81 mm	3.2"
No. 5	20 mm	.79"	153 mm	6.0"	109 mm	4.3"
No. 8	22 mm	.87"	222 mm	8.8"	185 mm	7.3"
No. 12	38 mm	1.50"	321 mm	12.6"	289 mm	11.4"



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T-Series™ Cone Crusher Weights

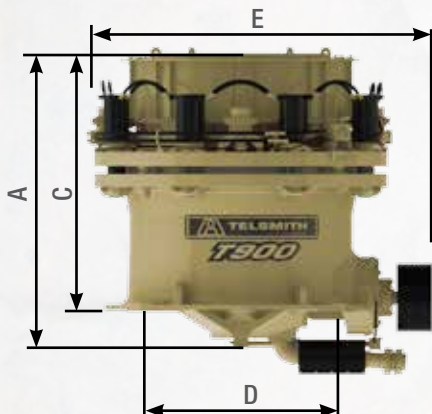
Crusher Model	Weights					
	T300		T400		T900	
Complete Crusher	16,000 kg	35,300 lbs	23,269 kg	51,300 lbs	127,000 kg	280,000 lbs
Main Frame Assembly	5,350 kg	11,800 lbs	8,074 kg	17,800 lbs	43,000 kg	95,000 lbs
Eccentric Assembly	1,470 kg	3,240 lbs	2,009 kg	4,430 lbs	9,000 kg	20,000 lbs
Head Assembly	2,360 kg	5,210 lbs	3,425 kg	7,550 lbs	17,000 kg	37,500 lbs
Upper Frame Assembly	5,810 kg	12,800 lbs	7,893 kg	17,400 lbs	55,500 kg	122,000 lbs

T900 Chamber Profiles

Bowl	Recommended Minimum Closed Side Setting (CSS)		Feed Opening at Minimum Closed Side Setting			
			Open		Closed	
No. 3	19 mm	.70"	97 mm	3.8"	58 mm	2.3"
No. 5	25 mm	1.00"	146 mm	5.8"	112 mm	4.4"
No. 7	30 mm	1.20"	213 mm	8.4"	154 mm	6.1"
No. 10	36 mm	1.40"	287 mm	11.3"	229 mm	9.0"
No. 15	45 mm	1.80"	401 mm	15.8"	348 mm	13.7"

T-Series™ Cone Crusher Dimensions

	A		B		C		D		E	
T300	1,956 mm	77.0"	2,261 mm	89.0"	1,727 mm	68.0"	1,320 mm	52.0"	2,463 mm	97.0"
T400	2,119 mm	83.4"	2,686 mm	105.75"	2,064 mm	81.3"	1,660 mm	63.4"	2,686 mm	105.75"
T900	3,698 mm	156.2"	4,307 mm	169.5"	3,598 mm	141.7"	2,490 mm	98.0"	4,313 mm	169.8"



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