



Terex[®] Minerals Processing Systems

TC SERIES CONE CRUSHERS



WORKS FOR YOU.

RELIABLE

You Can Depend On Terex® TC Cone Crushers

Optimum Performance

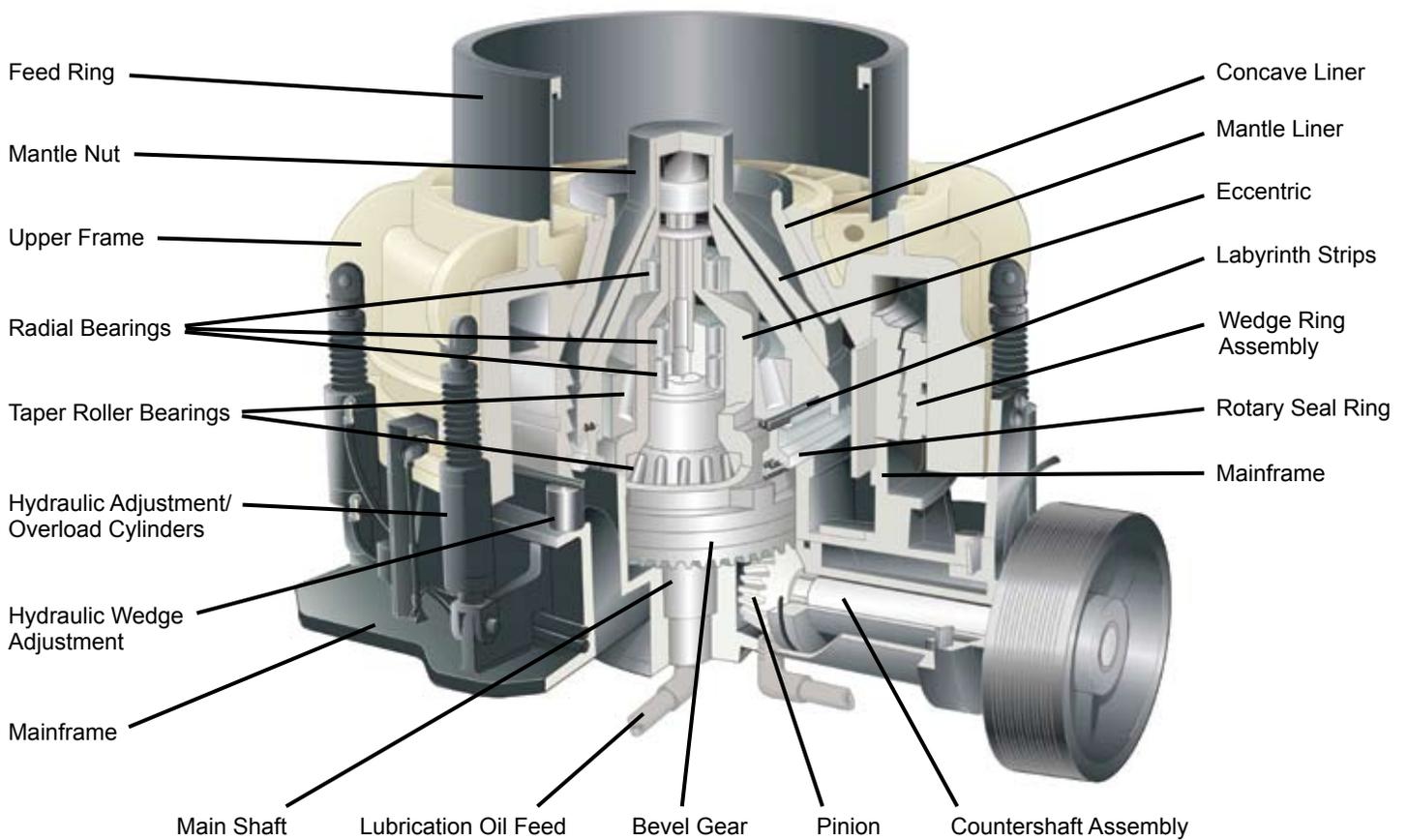
- Advanced crusher geometry
- Excellent product shape through attrition crushing
- High output capability
- Production of high quality material

Low Cost of Operation

- High capacity with energy efficiency
- Low wear costs
- Exceptional reliability

Ease of Maintenance

- Accessible external hydraulics
- Simple assembly and dismantling
- Quick manganese change



Benefits and Features

▶ **Robust Construction**

Fully automatic controls
Designed for the most arduous applications

▶ **Low Profile**

Important where headroom is restricted
Ideally suited for mobile plant application

▶ **Advanced Hydraulics**

Accessible external hydraulics
Hydraulic setting adjustment
Automatic hydraulic overload protection and reset

▶ **Simple Wear Part Change**

Designed for fast changeover
Keeps downtime to a minimum
Readily accessible from above machine
- no need to remove cone head
Unrestricted feed opening reduces blockages
and bridging, and increases output

▶ **Balanced Design**

Reduces vibration

▶ **Advanced Bearing Arrangement**

High capacity taper and cylindrical roller bearings
Long trouble free service
Low friction characteristics compared with 'old fashioned plain bearings'

▶ **Proven Sealing Arrangement**

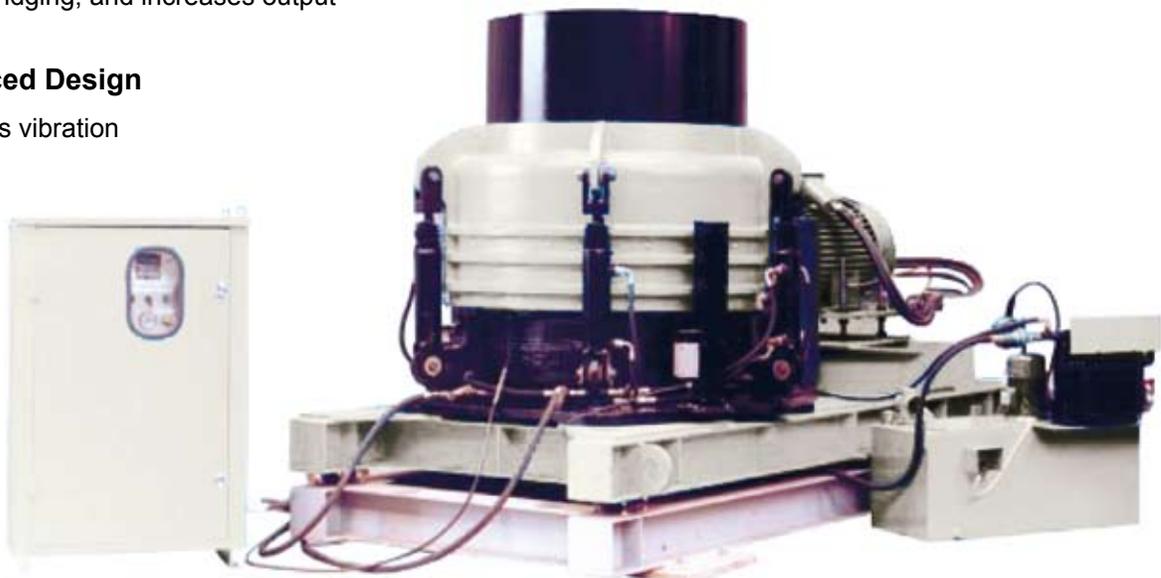
Utilizes rotary seal ring, piston rings and double row labyrinth seals

▶ **Overload Protection**

Hydraulic relief system with automatic reset

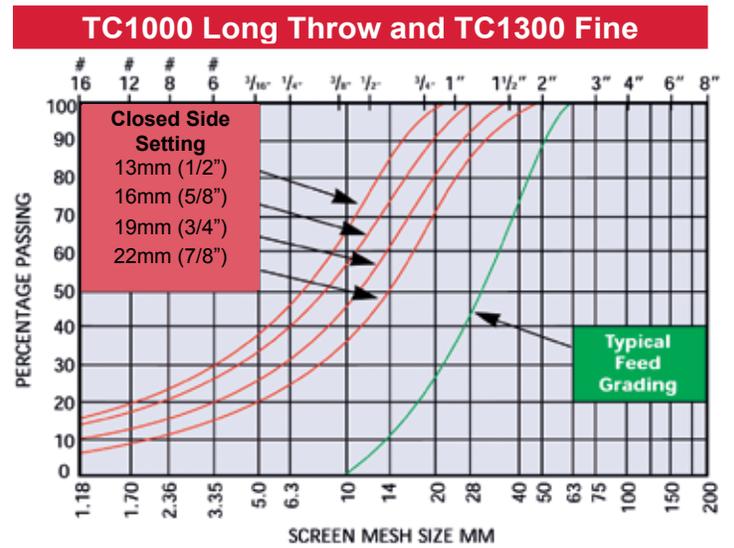
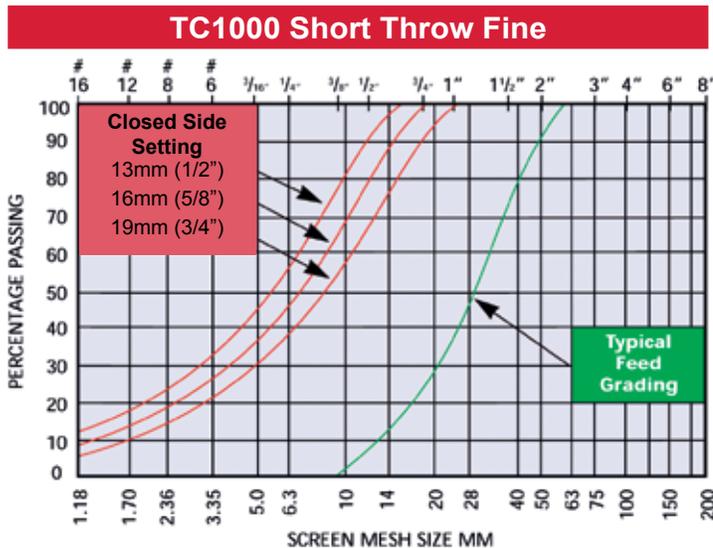
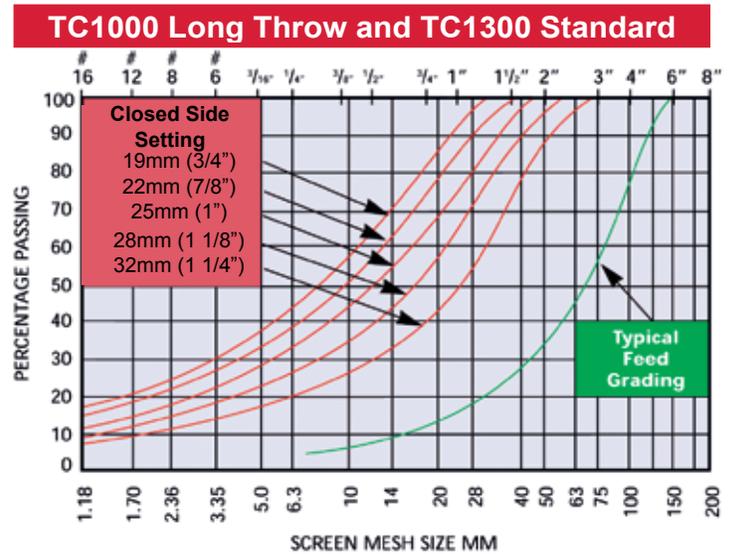
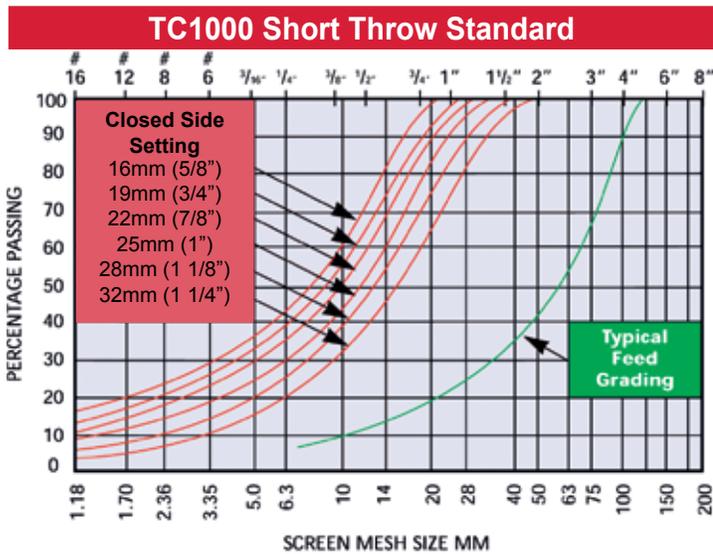
▶ **Setting Adjustment/Unblocking Facility**

Push button controlled hydraulic cylinders raise and lower the upper frame assembly to adjust the crusher setting and to unblock the crushing chamber



PRODUCTIVE

Performance Charts



Feed and product curves are relative and based on actual test data. If the feed varies from that shown, products and capacities will also vary. Consult Terex® Minerals Processing Systems for more information.

Closed Side Settings and Approximate Capacities									
Standard Chamber	Maximum Feed Size		Approximate Capacities						
			Closed Side Setting	16 mm	19 mm	22 mm	25 mm	28 mm	32 mm
	mm	inches			5/8 in	3/4 in	7/8 in	1 in	1 1/8 in
TC1000 M.C. Short Throw	160	6 1/4	M. tph	90-110	105-120	115-140	120-150	130-160	
			U.S. tph	100-120	115-130	125-155	130-165	140-175	
TC1000 X.C. Short Throw	195	7 1/2	M. tph		105-120	115-150	135-160	145-170	150-180
			U.S. tph		115-130	125-165	150-175	160-185	165-200
TC1000 M.C. Long Throw	160	6 1/4	M. tph		125-145	140-170	145-180	155-190	
			U.S. tph		135-160	155-185	160-195	170-210	
TC1000 X.C. Long Throw	195	7 1/2	M. tph			140-180	165-195	175-205	180-220
			U.S. tph			155-195	180-215	190-225	200-240
TC1300 Standard	220	8 1/2	M. tph			220-255	235-275	250-295	260-320
			U.S. tph			240-280	260-300	275-325	285-350

Closed Side Settings and Approximate Capacities												
Fine Chamber	Maximum Feed Size		Approximate Capacities									
			Closed Side Setting	mm	ins	mm	ins	mm	ins	mm	ins	
	mm	inches			13	1/2	16	5/8	19	3/4	22	7/8
TC1000 Short Throw	63	2 1/2	M. tph	70 - 100		80 - 110		85 - 125				
			U.S. tph	75 - 110		90 - 120		95 - 135				
TC1000 Long Throw	63	2 1/2	M. tph	85 - 120		95 - 130		100 - 150				
			U.S. tph	95 - 130		105 - 140		110 - 165				
TC1300 Standard	63	2 1/2	M. tph	165 - 185		180 - 200		195 - 220		210 - 240		
			U.S. tph	180 - 220		200 - 220		215 - 240		230 - 260		

Crusher Capacity

The capacities given are approximate. They are based on crushing clean, dry, well graded aggregate weighing loose about 1600kg/m³ (100lbs/ft³) and having a specific gravity of 2.6 - 2.8. Wet sticky feeds will reduce crusher capacities.

Capacities will vary according to the method of feed and the size, gradation, compressive strength, toughness, friability and moisture content of the feed. Capacities are for open circuit applications.

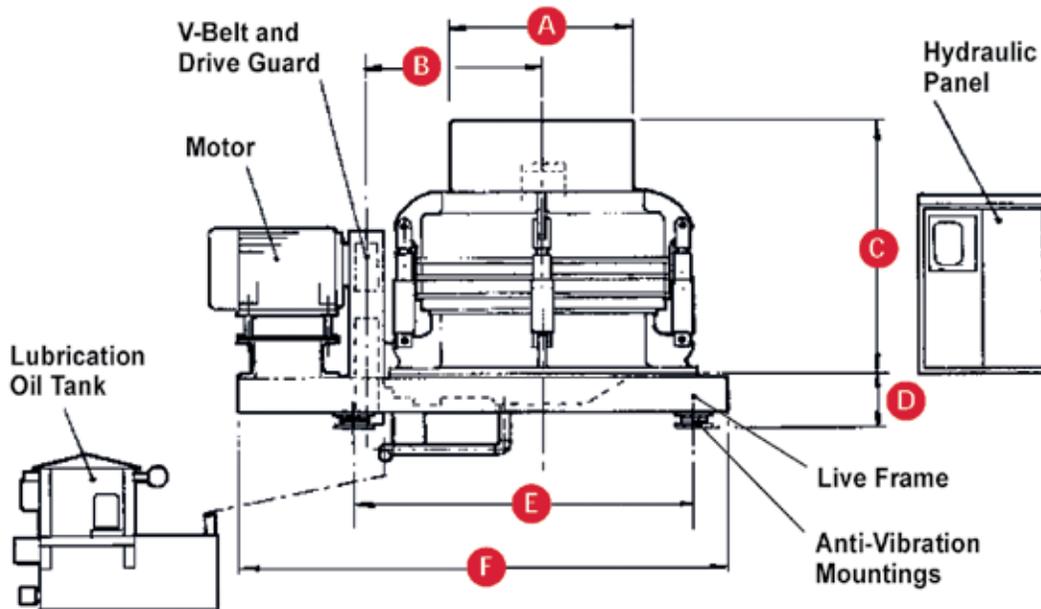
Crusher Settings

The crusher settings shown in the tabulation are for general guidance only and when operation is required toward the lower end of the setting range, Terex® Minerals Processing Systems should be consulted to verify the application.

Crusher Grading

The grading curves provided are a guide only and will vary with rock characteristics.

BUILT TOUGH



Approximate Overall Dimensions					
Model		TC1000		TC1300	
		mm	inches	mm	inches
A	mm	1168	46	1410	55 1/2
B	mm	1160	45 5/8	1415	55 3/4
C	Max	1730	68	2268	89 1/4
	Min	1525	60	2020	79 1/2
D	mm	289	11 3/8	356	14
E	mm	2250	88 1/2	2375	93 1/2
F	mm	3286	129 3/8	3875	152 1/2

Footnote: Dimensions shown are approximate only and are subject to change. Use only certified installation drawings for construction purposes.

Optional Equipment

- Motor
- Vee Belt Drive, Guard and Motor Pulley
- Live Frame Assembly with Anti-Vibration Mountings
- System 3 Hydraulics
- System 4 Hydraulics

Terex[®] TC Cone Crusher Specifications

Drive Details				
Model		TC1000	TC1000	TC1300
		Short Throw	Long Throw	Standard
Power Required	kW	160	170	225
	HP	215	230	300
Pulley P.C. Diameter	mm	630	630	630
	inches	24 3/4	24 3/4	24 3/4
Pulley Face Width	mm	213	213	213
	inches	8 3/8	8 3/8	8 3/8
Pulley Speed	RPM	936	936	718
Vee Belts		8 - SPC	8 - SPC	8 - SPC

Weights				
Model	TC1000		TC1300	
	kgs	lbs	kgs	lbs
Base Cone Crusher only	10,000	22,040	22,000	48,500
Crusher assembled on Live Frame with Motor, Motor Pulley, Vee Belts and Drive Guard	12,000	26,460	26,000	57,320
Hydraulic Panel (System 2)	300	660	300	660
Oil Tank with Airblast Cooler	350	770	390	860

Power Variation

The power required will vary with the feed and product size, capacity and rock characteristics.



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Give us a call to learn more about our extensive equipment range.

www.terexmps.com

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