

CEDARAPIDS®
A TEREX BRAND

Cone Crushers

TC1000



Cedarapids® Static

TC Series Cone Crushers

The TC Cone Crusher provides an excellent reduction and product cubicity for the production of high quality aggregate and sub-base material.

Features & Benefits

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

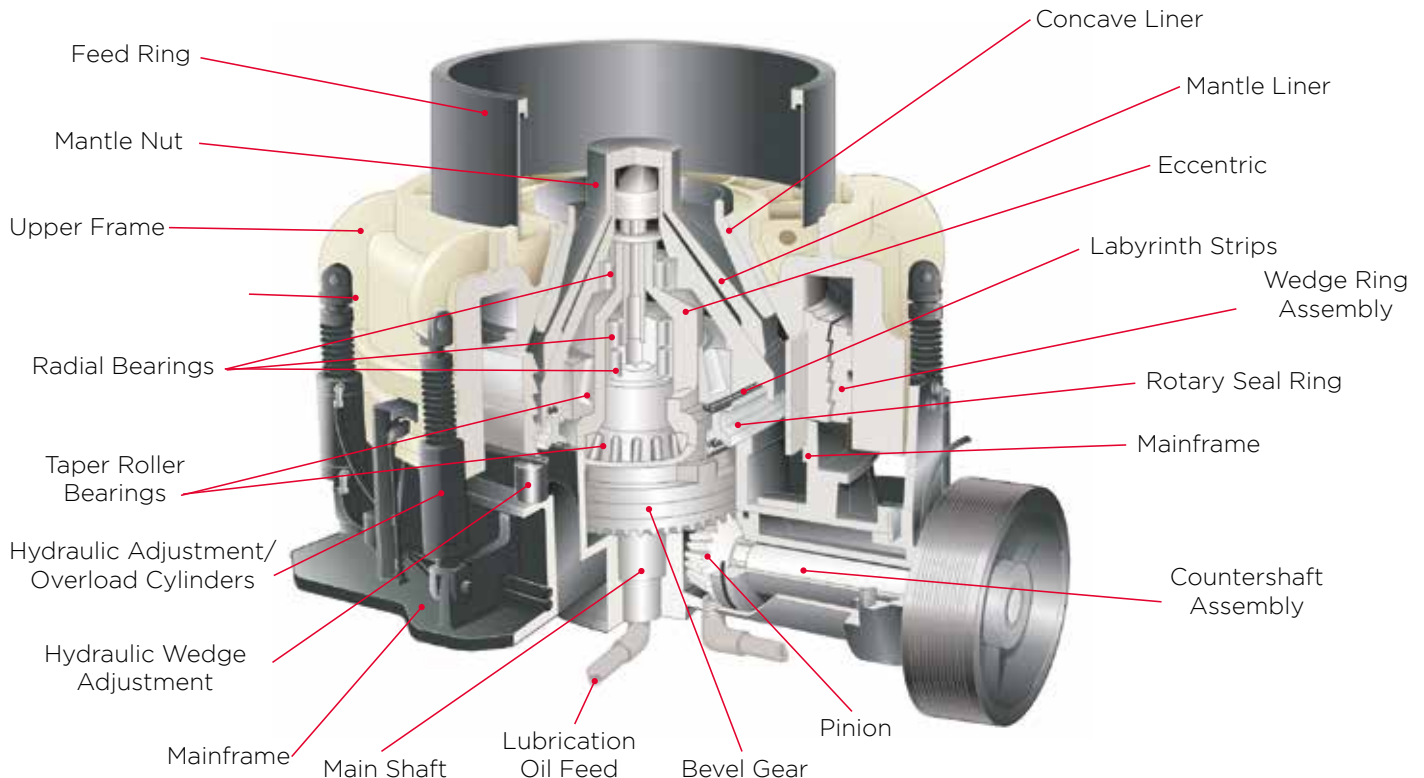
Overload Protection

- 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

ACE6 Control System as Standard



Drive Details

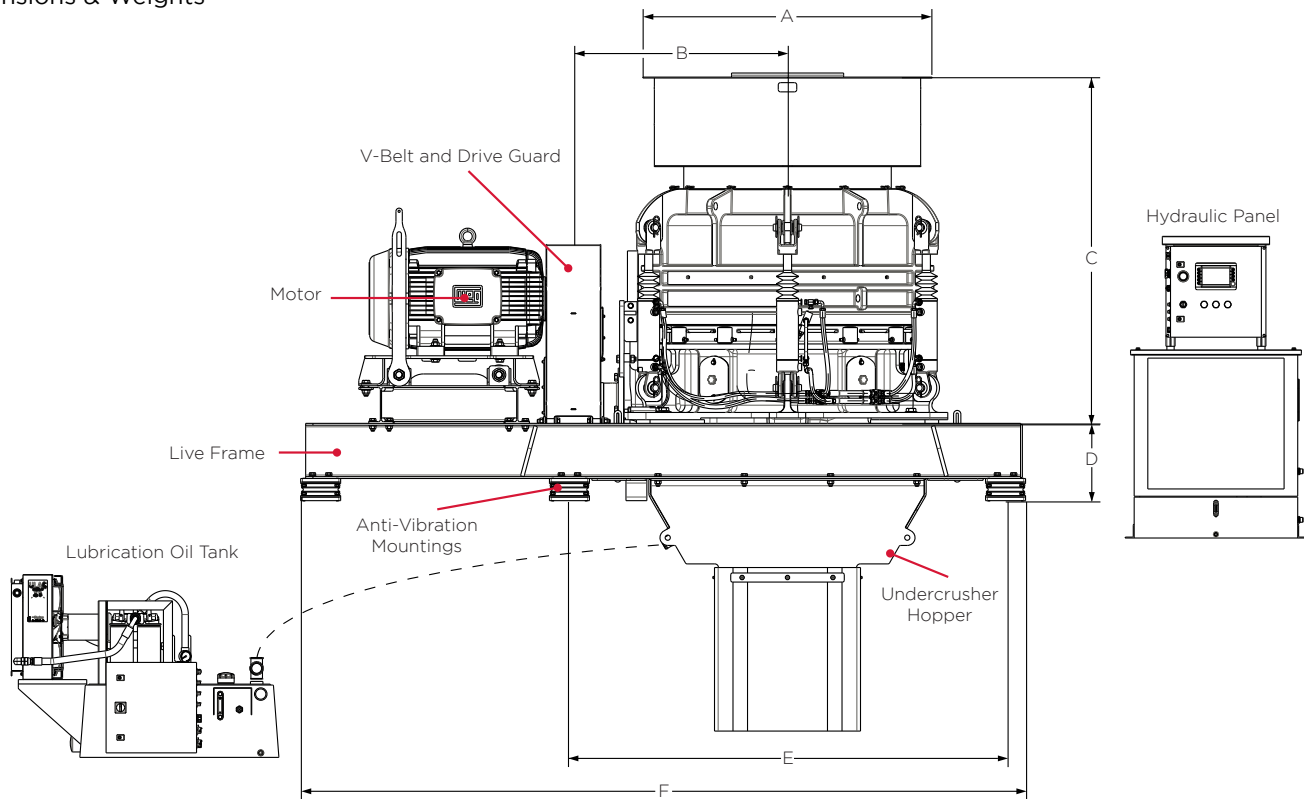
| Model | TC1000 Short Throw | | TC1000 Long Throw | |
|------------------|--------------------|----------|-------------------|----------|
| | Metric | Imperial | Metric | Imperial |
| Power Required | 160 kW | 215 hp | 170 kW | 225 hp |
| Countershaft RPM | 936 rpm | | 936 rpm | |
| Vee Belts | 8 - SPC | | 8 - SPC | |

Power Variation

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



Dimensions & Weights



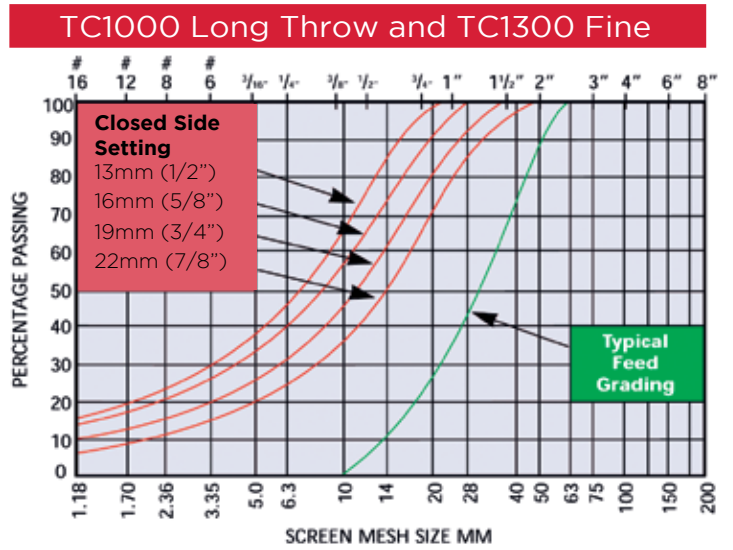
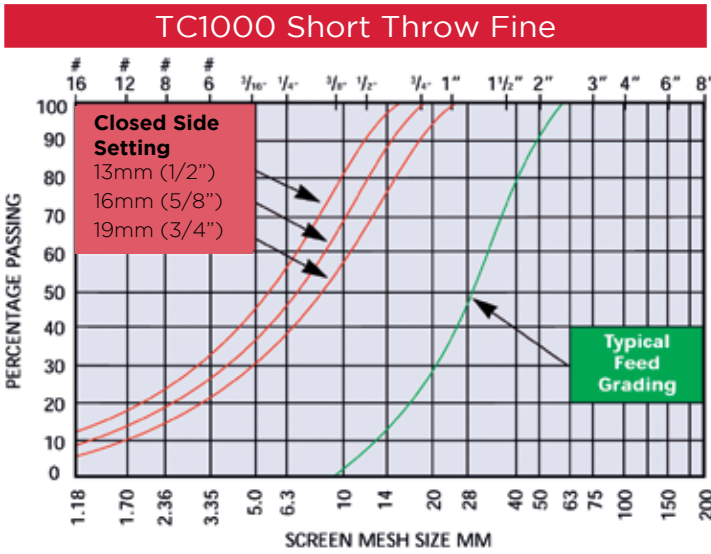
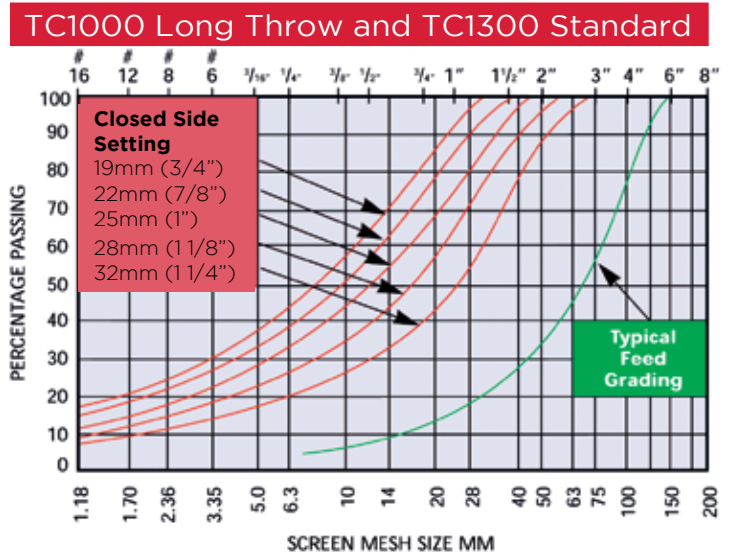
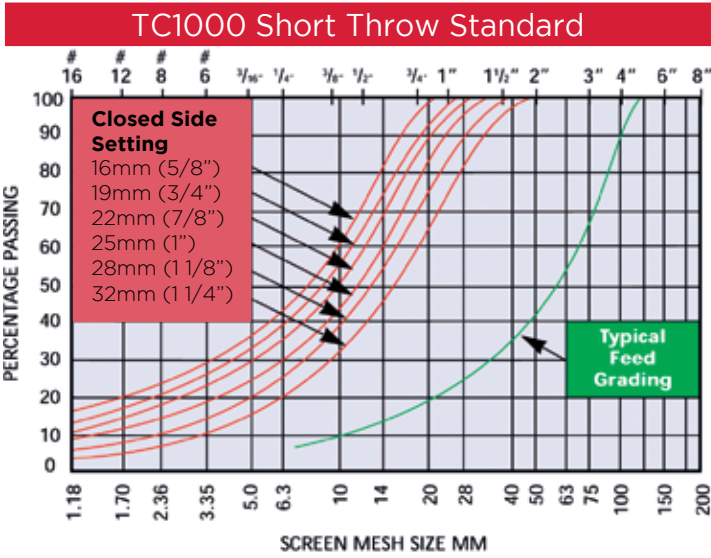
| Weights | TC1000 | |
|---|--------|--------|
| | kg | lb |
| Basic cone crusher only | 10,000 | 22,040 |
| Crusher assembled on live frame with motor, motor pulley, Vee belts and drive guard | 12,650 | 26,460 |
| Hydraulic panel | 300 | 660 |
| Oil tank with airblast cooler | 350 | 770 |

| | TC1000 | |
|---------|--------|------|
| | mm | in |
| A | 1592 | 62.7 |
| B | 1178 | 46.4 |
| C (Max) | 1928 | 75.9 |
| C (Min) | 1723 | 67.8 |
| D | 303 | 11.9 |
| E | 2400 | 94.5 |
| F | 3989 | 157 |

Optional Equipment

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

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



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 MPS for more information.

Closed Side Settings and Approximate Capacities

| Standard Chamber | Maximum Feed Size | Minimum CSS | CSS | Approximate Capacities | | | | | |
|----------------------------|-------------------|-------------|------|------------------------|-----------------|-----------------|---------------|-------------------|-------------------|
| | | | | 16 mm 5/8 in | 19 mm 3/4 in | 22 mm 7/8 in | 25 mm 1 in | 28 mm 1 1/8 in | 32 mm 1 1/4 in |
| TC1000 M.C. Short Throw | 160 mm | 16 mm | MTPH | 90 - 110 | 105 - 120 | 115 - 140 | 120 - 150 | 130 - 160 | |
| | 6 1/4 in | 5/8 in | STPH | 100 - 120 | 115 - 130 | 125 - 155 | 130 - 165 | 140 - 175 | |
| TC1000 X.C. Short Throw | 195 mm | 19 mm | MTPH | | 105 - 120 | 115 - 150 | 135 - 160 | 145 - 170 | 150 - 180 |
| | 7 1/2 in | 3/4 in | STPH | | 115 - 130 | 125 - 165 | 150 - 175 | 160 - 185 | 165 - 200 |
| TC1000 M.C. Long Throw | 160 mm | 19 mm | MTPH | | 125 - 145 | 140 - 170 | 145 - 180 | 155 - 190 | |
| | 6 1/4 in | 3/4 in | STPH | | 135 - 160 | 155 - 185 | 160 - 195 | 170 - 210 | |
| TC1000 X.C. Long Throw | 195 mm | 22 mm | MTPH | | | 140 - 180 | 165 - 195 | 175 - 205 | 180 - 220 |
| | 7 1/2 in | 7/8 in | STPH | | | 155 - 195 | 180 - 215 | 190 - 225 | 200 - 240 |

Key: M.C. = Medium Coarse, X.C. Extra Coarse

| Fine Chamber | Maximum Feed Size | Minimum CSS | CSS | Approximate Capacities | | |
|-----------------------|-------------------|-------------|------|------------------------|-----------------|-----------------|
| | | | | 13 mm 1/2 in | 16 mm 5/8 in | 19 mm 3/4 in |
| TC1000 Short Throw | 63 mm | 13 mm | MTPH | 70 - 100 | 80 - 110 | 85 - 125 |
| | 2 1/2 in | 1/2 in | STPH | 175 - 110 | 90 - 120 | 95 - 135 |
| TC1000 Long Throw | 63 mm | 13 mm | MTPH | 85 - 120 | 95 - 130 | 100 - 150 |
| | 2 1/2 in | 1/2 in | STPH | 95 - 130 | 105 - 140 | 110 - 165 |

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 MPS should be consulted to verify the application.

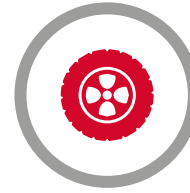
Crusher Grading

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

Versatility for Your Application



MODULAR



PORTABLE



STATIC

Available as static cone crushers for a custom fit for your application or available in pre-engineered modular and portable options for easy transport and installation.

Modular



| Model | Main Components | Motor Size | Capacity (MTPH) | Shipping Configuration |
|--------|---------------------|--------------------|------------------------|---|
| MC1000 | TC1000 Cone Crusher | 250 hp (185 kW) | 75 - 240 (68 - 218) | (1) 40ft shipping container plus (1) 20ft container |

Portable



| Model | Main Components | Motor Size | Capacity (MTPH) | Suspension | Weight lbs (Kg) |
|----------|--|--------------------|--------------------------|------------|---------------------------|
| CRC1150 | TC1150 cone | 300 hp (224 kW) | 165 - 320 (150 - 290) | 2 Axle | 66,100 lbs (29,990 Kg) |
| CRC1150S | TC1150 cone and LJ-TSV6203 three deck screen | 300 hp (224 kW) | 165 - 320 (150 - 290) | 3 Axle | 66,100 lbs (29,990 Kg) |

Cedarapids® Services

Proven Success, Global Reach

A comprehensive range of services. Original spare and wear parts. Customizable solutions to meet your exact needs. Outstanding technical expertise and support.

This is what Cedarapids® delivers to businesses – and what it delivers to businesses throughout the world via our global distribution network, service and distribution facilities and regional warehouses.

Spare and Wear Part Support

Our OEM parts help maintain and enhance the performance of your equipment – and you can count on us to get you the spare and wear parts you need, when you need them.

Cedarapids® parts are manufactured according to exact specifications, using high-quality materials, tools and techniques. By using genuine parts you are helping to ensure the maximum performance and longevity of your machines.

Terex® Financial Services

At Cedarapids® we not only offer a strong and broad product portfolio. We also offer the means for customers to purchase the equipment they need in order to meet their operational and profitability goals.

Terex® Financial Services is a globally trusted resource that is able to leverage its knowledge of Terex® equipment plus its marketplace expertise to provide a unique tailored solution for customers.

Combining our global service network and deep industry knowledge with your operational expertise ensures that we provide the best solutions...

A Shared Focus

We understand your key focus is delivering your operational and financial goals. We share that focus: it's how we both measure success.

By combining our global service network and proven, in-depth industry knowledge with your operational expertise we're able to provide you with the right solution to deliver a quality end product – with increased productivity.

Field Services

We offer a comprehensive set of field services to meet your maintenance, repair and refurbishment needs – which means you get a cost-effective alternative to purchasing new or replacement equipment.

Our experienced field service and distribution network are available to you on site or at our global service facilities. We can repair broken or damaged equipment to like-new condition and restore worn or irreplaceable equipment to perfect operating condition – which minimizes costly downtime for you.



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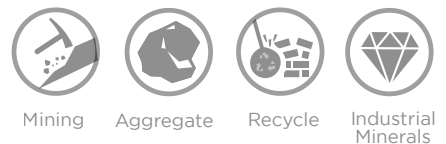
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CEDARAPIDS[®]
A TEREX BRAND

Spider Bearing Cones TG Series



A world working better™

 **TEREX**.MPS

Cedarapids® TG Series

Exceptional Versatility Superior Productivity Consistent Performance

Cedarapids provides a complete range of crushing equipment in four key industries:

- Mining
- Aggregates
- Demolition & Recycling
- Industrial Minerals

The range of bronze bushing TG Series cone crushers are the latest addition to the world leading Cedarapids Cone Crusher Range.

These impressive cone crushers can be easily and efficiently set up to perform and deliver the best cost per ton cubicle product by selecting the optimum crushing cavity and eccentric throw to suit the application requirements. From a coarse secondary right through to fine quaternary, the TG series cone crushers will consistently exceed all performance expectations.

The advanced automation control system, fitted as standard on all TG Series Cones, improves performance and cone safety. With its user friendly interface and advanced technology the control system will continuously monitor the cone's operational parameters and make the necessary adjustments to ensure consistent peak performance.

- Hydraulically controlling the cone's CSS, even under load, and compensating for liner wear
- Maintaining the cone's optimum power requirement
- Logging of key operational parameters & performance indicators
- Provides advanced diagnostics

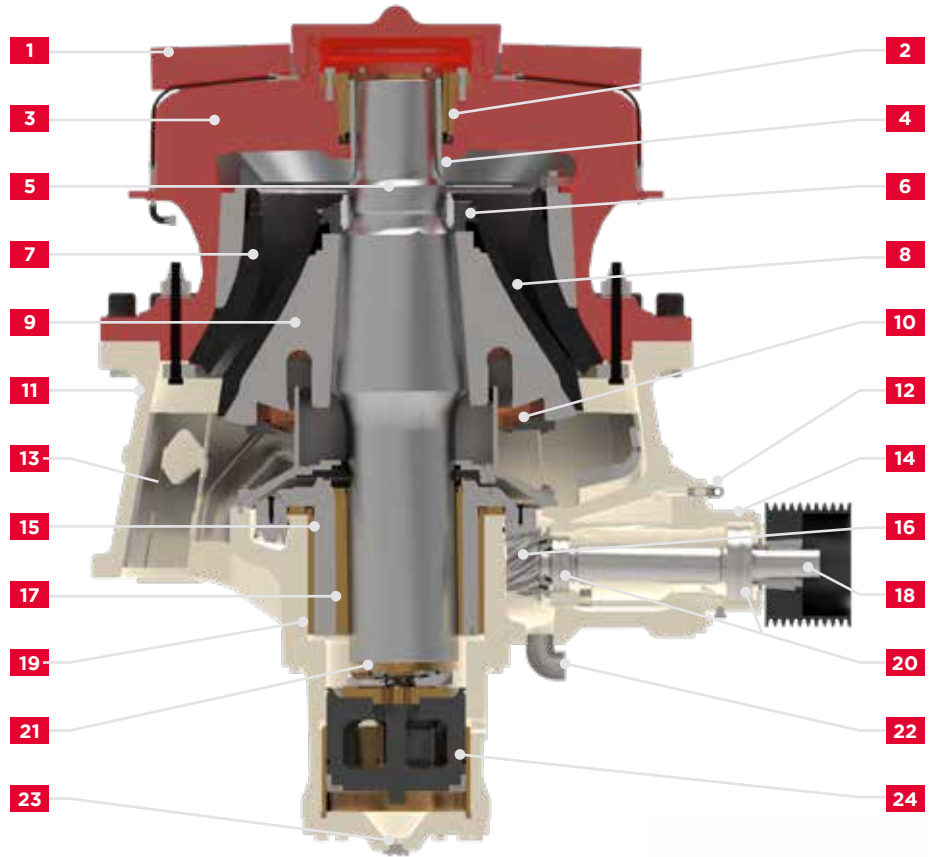
A world working better™



CROSS SECTION OF STANDARD TG CONE

Standard/Fine Range

1. Spider Arm Shields
2. Spider Arm Bearing
3. Top Shell & Spider Arm
4. Mainshaft Sleeve
5. Mainshaft
6. Mantle Lock Nut
7. Concave Liner
8. Mantle Liner
9. Cone Head
10. Floating Seal Ring
11. Bottom Shell/Main Frame
12. Air Over Pressure Inlet
13. Main Frame Liners
14. Countershaft Housing
15. Eccentric
16. Spiral Bevel Pinion Gear
17. Inner Eccentric Bush
18. Countershaft
19. Outer Eccentric Bushing
20. Countershaft Roller Bearings
21. Thrust Bearing
22. Lubrication Oil Return
23. Linear CSS Transduced
24. CSS Adjustment Piston



Mining



Aggregate



Recycle



| Model Name | TG120 | TG220 | TG320 | TG420 | TG820 | TG1020 |
|----------------------|------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|
| Maximum Power | 120hp (90kW) | 215hp (160kW) | 335hp (250kW) | 422hp (315kW) | 805hp (600kW) | 1006hp (750kW) |
| *Maximum Feed Size | 125mm (5") | 165mm (6.5") | 190mm (7.5") | 240mm (9.5") | 320mm (12.6") | 355mm (13.2") |
| Basic Crusher Weight | 5,500kg (12,125lbs) | 9,500kg (20,945lbs) | 15,000kg (33,070lbs) | 25,200kg (55,556lbs) | 50,000kg (110,231lbs) | 77,000kg (170,000lbs) |
| CSS Range | 6-29mm (1/4-1 1/8") | 6-32mm (1/4-1 1/4") | 8-38mm (5/16-1 1/2") | 13-44mm (1/2-1 3/4") | 13-64mm (1/2-2 1/2") | 13-70mm (1/2-2 3/4") |
| Maximum Capacity | 110-130mtph (121-143stph) | 195-215mtph (215-237stph) | 380-410mtph (419-452stph) | 640-680mtph (706-750stph) | 1400-1550mtph (1543-1709stph) | 2100-2300mtph (2315-2535stph) |

*Maximum Feed Size based on a feed of F₉₅
Crusher range not to scale

Cedarapids® TGS Series

Epic Durability Unmatched Reliability Optimum Efficiency

The TGS cone utilises the same base mount, drive train and power rating as its equivalent TG cone and is the ideal choice for large feed secondary applications. It can be utilised in a control fed sand & gravel primary application.

The TGS cone can accept a 65-80% larger feed in size compared to all other types of cones in the same power rating, and the steep angled head design accounts for an increased throughput in capacity and the ability to sustain an on/off feed. The consistent feed in opening, through the full wear life of the liners, results in no reduction in maximum feed size and limited fluctuation in output gradings.

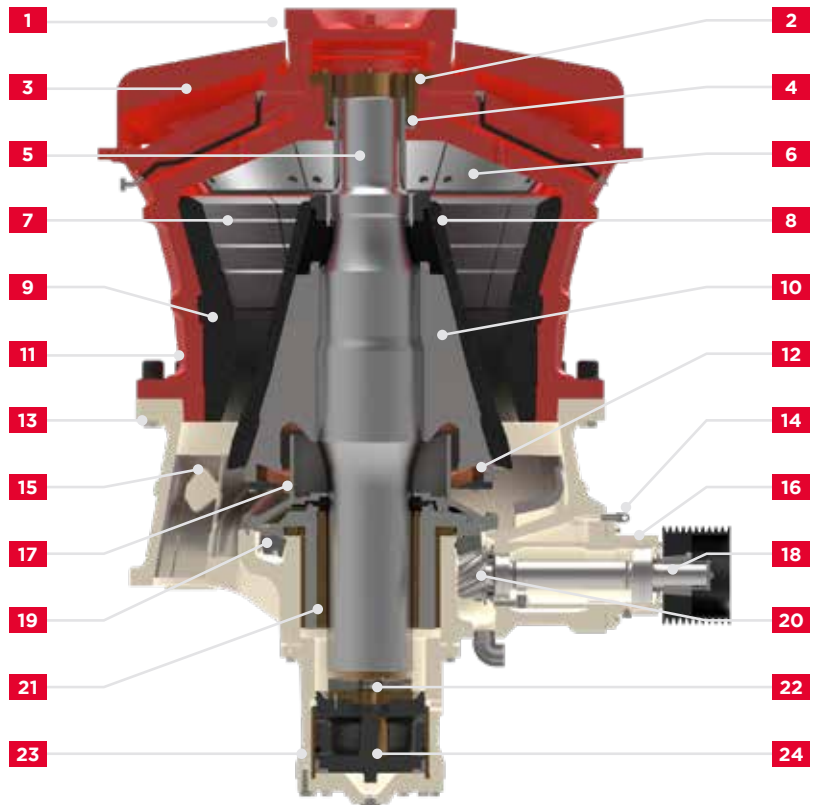
The TGS Series cones come with the advanced automation cone controls as standard. With numerous choices of crusher cavities and eccentric throws, which allow the cone to be easily adapted to all application requirements at a minimal cost, coupled with the exceptional productivity, results in an overall lower cost per ton average.



CROSS SECTION OF SECONDARY TGS CONE

Secondary Range

1. Spider Bearing Cap & Arm Shields
2. Spider Arm Bearing
3. Top Shell & Spider Arm
4. Mainshaft Sleeve
5. Mainshaft
6. Inlet Ring Wear Plates
7. Concave Liner - Upper Ring
8. Mantle Liner
9. Concave Liner - Lower Ring
10. Cone Head
11. Top Shell
12. Floating Seal Ring
13. Lower Shell/ Main Frame
14. Air Over Pressure Inlet
15. Main Frame Liners
16. Countershaft Housing
17. Dust Collar Ring
18. Countershaft
19. Bevel Gear
20. Spiral Bevel Pinion Gear
21. Inner Eccentric Bush
22. Lower Thrust Bearing
23. Adjustment Piston Sleeve
24. CSS Adjustment Piston



| Model Name | TGS120 | TGS220 | TGS320 | TGS420 |
|----------------------|--|--|---|---|
| Maximum Power | 120hp (90kW) | 215hp (160kW) | 335hp (250kW) | 422hp (315kW) |
| *Maximum Feed Size | 190mm (7.5") | 275mm (10.8") | 330mm (13") | 385mm (15.2") |
| Basic Crusher Weight | 6,850kg (15,102lbs) | 12,100kg (26,676lbs) | 19,500kg (42,990lbs) | 36,500kg (80,469lbs) |
| CSS Range | 9-35mm (⁵ / ₁₆ - 1 ¹ / ₈ " | 19-35mm (³ / ₄ - 1 ³ / ₈ " | 29-48mm (1 ¹ / ₈ - 1 ⁷ / ₈ " | 38-70mm (1 ¹ / ₂ - 2 ³ / ₄ " |
| Maximum Capacity | 132-143mtph (146-158stph) | 325-344mtph (358-379stph) | 575-601mtph (634-662stph) | 1000-1050mtph (1102-1157stph) |

*Maximum Feed Size based on a feed of F₉₅
Crusher range not to scale

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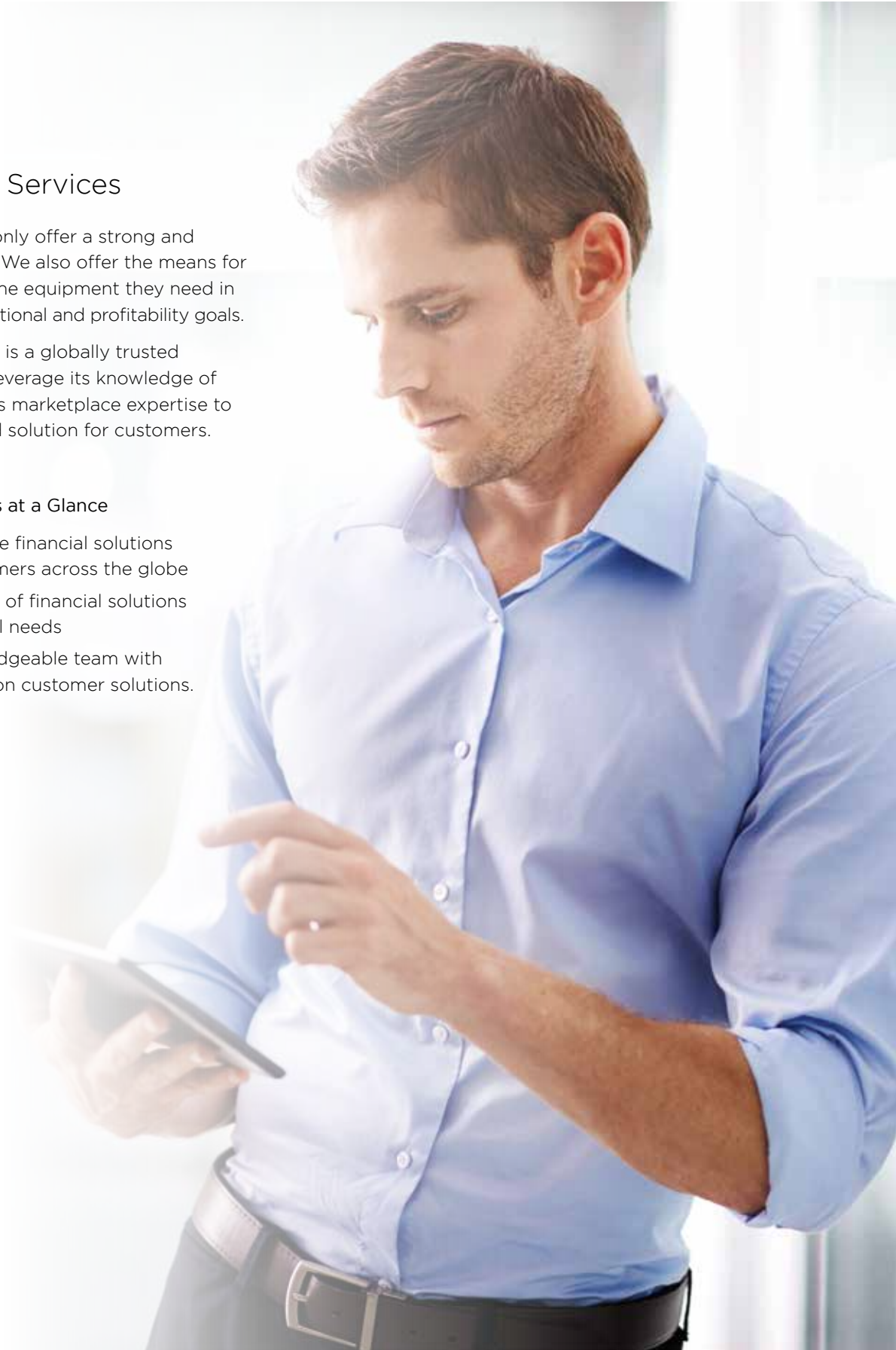
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Terex® Financial Services at a Glance

- Providing cost-effective financial solutions to thousands of customers across the globe
- A comprehensive suite of financial solutions tailored to fit individual needs
- Dedicated and knowledgeable team with global reach, focused on customer solutions.



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A TEREX BRAND

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CEDARAPIDS®

A TEREX BRAND

MVPX Series Cone Crushers



A world working better™

 **TEREX**® MPS

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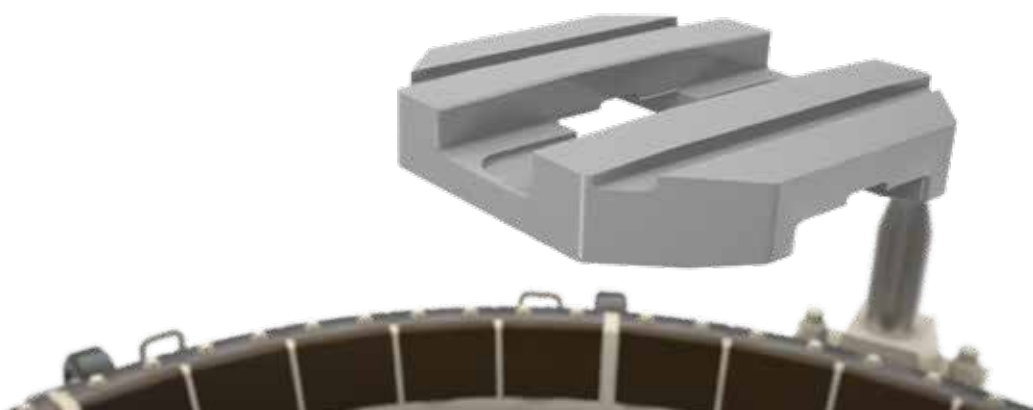
Cedarapids®

Designed to Deliver. Built to Last.

Cedarapids® understands your business and we are dedicated to offering cost-effective solutions for your needs.

In today's competitive environment, you need to have high quality equipment. It's even better to know that your equipment is backed by an outstanding support network.

Customer satisfaction is our goal. Our service, parts, applications and sales teams are trained to provide our customers with crushing and screening process knowledge and fast friendly service. With over eight decades of experience and our leading edge technology, you can depend on us.



MVPX Series Cone Crushers

Crush the Competition

Cedarapids® MVPX Crushers conquer challenges

You wrestle with multiple challenges every day in the aggregates business: cutting costs, becoming more productive, meeting customer requirements, staying competitive. The Cedarapids® MVPX cone crusher is an industry leader that simply pulverizes everything that stands in the way of success.

The advanced engineering of the MVPX features the ElJay® roller bearing design and a hydropneumatic tramp iron relief system that revolutionized the industry. The complete MVPX line includes three different models in stationary or portable configurations, from 300 to 500 hp, processing up to 810 tons per hour and capable of handling sand and gravel, shot rock and recycled materials. Each machine offers you an array of competitive advantages—from improved product quality, to higher throughput capacities, to lower operational costs.

Cedarapids® MVPX—the leading force in compression crushers.

Built To Deliver

Tons of Advantages

It all comes down to delivering more tons of material cost effectively.

Cedarapids® MVPX crushers make it no contest. They weigh in with sheer power, innovative technologies and time-tested reliability. Their performance gives you a low cost-per-ton. You are able to meet the requirements of your customers for superior quality product.

You are able to meet the needs of your business with a cost effective crusher — the MVPX. Put it to work for you.

Versatility and Value

Every detail of the Cedarapids® MVPX has been designed to provide superior performance. As a result, it offers high versatility and high value.

- High net tons of finished product per operating hour
- Ability to adjust under load means more up time, resulting in more production
- Ability to make Superpave materials
- Ability to operate in a true choke feed condition
- Ability to operate at tight settings

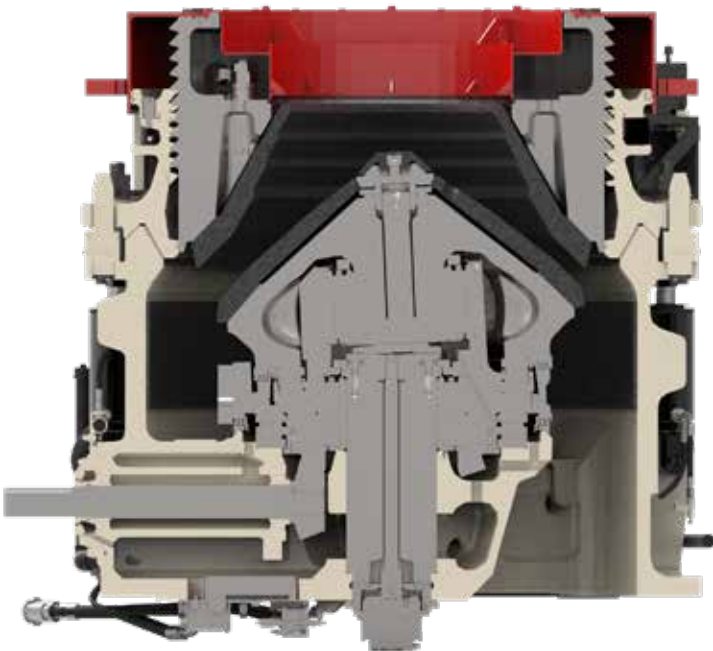
Proven Capabilities

Whether it's a matter of capacity, quality, yield or efficiency, the Cedarapids® MVPX will take you to high levels of performance. The unique ElJay® Rollercone® design, famous for its efficiency, has proven itself for decades and with each succeeding generation the MVPX has advanced the technology.

Increase Your Crushing Power

Imagine crushing more product on the first pass. That's the efficiency of the MVPX's proven rotating wedge plate design. It transmits a very high percentage of the input energy to direct crushing power. Riding the wedge plate with an eccentric motion, the cone head squeezes rock between the mantle and stationary bowl liner. Rock is crushed on the closed-side setting, and simultaneously discharged on the open-side setting.

The wedge plate's roller bearings also contribute to improved productivity. Their tight tolerances reduce oversize to about 15% to 20% instead of the 30%+ typical for bronze-bushing cones when making 1/2" (12.7mm) minus product. This allows more feed material in the circuit with less recirculation. The Cedarapids® MVPX offers power, capacity, quality and ultimately, profitability.



Cedarapids®

Operating Time, Not Downtime

The very technologies that make the Cedarapids® MVPX so highly productive also help prevent downtime. The frictionless roller bearing generates less heat and provides extensive service life. An anti-spin mechanism prevents spinning of the cone head when empty, thus reducing excess wear on the cone liners.

A heavy-duty cast base frame withstands the harshest applications to prolong the unit's service life.

Replaceable counterweights maintain vibration-free performance.

Hydropneumatic tramp iron relief system safely passes uncrushable materials. Every aspect of the MVPX design was engineered to provide reliable operation day after day.

High Capacity

- Unrestricted, full sized feed entry easily handles large slabs
- Advanced head and chamber design minimizes hang-ups
- Roller bearing provides superior load carrying capacity

High Quality

- Head angle and crushing chamber design enhances cubical product
- Remote, on-the-fly adjustment for fine tuning of output gradations
- Advanced automated cone control system standard.

High Yield

- Varying speeds and crushing chamber configurations produce more product, less waste
- High hold down pressure and optimum speed deliver greatest saleable product
- Electronic bowl float monitoring system standard, for added reliability and cone protection.

High Efficiency

- Field-proven ElJay® Rollercone® roller bearing design converts high percentage of horsepower into crushing power
- More product produced per hour with less friction and heat
- Long crushing chamber with high retention results in more crush per pass



MVPX Series Cone Crushers

Advantages/Key Features

- New ACE8 Advanced Automated Cone Control System helps improve the crusher's performance as well as overall reliability, including a bowl float monitoring system as standard.
- Fully guided dual action tramp relief cylinders provide 6" (152 mm) lift for easy clearing of jammed feed material to reduce downtime and increase productivity.
- Hydraulic powered threaded upper assembly for quick crusher setting adjustment under load.
- Hydro-pneumatic tramp iron relief system instantly resets crusher setting after passing uncrushable material; high flow manifold system with multiple accumulators provides redundant cylinder protection.
- Pinned cylinder ends remove quickly to allow fast cone separation for fast manganese changes, reducing downtime.
- Optional counterweight wear guard eliminates high velocity wear on base frame and weights, reducing maintenance (MVP380X & MVP450X models)
- Computer optimized, high endurance, all-cast construction with new upper and lower frame castings; rugged, field proven cone head and bowl nut castings for high-force, demanding crushing applications.
- Patented Rollercone® design and super bearing increase efficiency, making more horsepower available for crushing.
- Full size feed entry and a vigorous upper cone crushing action increase throughput.
- Anti-spin brake stops the cone head from spinning, preventing wear on the liners which increases manganese life.



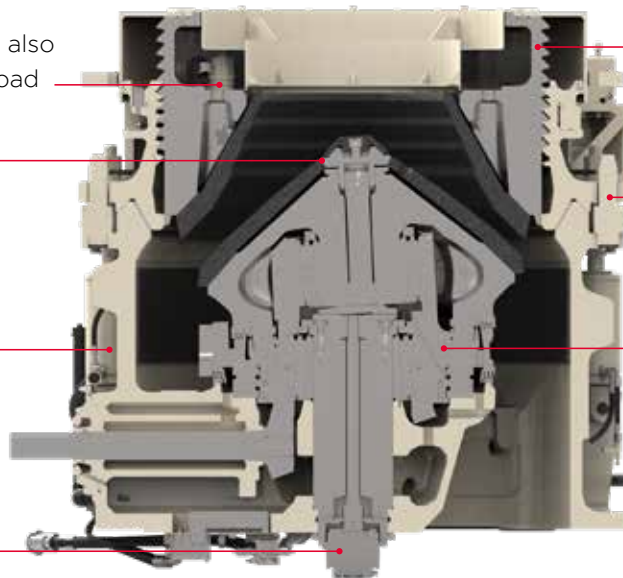
MVPX Series Cone Crushers

Clamp cylinders hold setting securely during crushing but also allow for adjustment under load

Full size feed opening with active upper head to better handle slabby feed

Tramp iron relief system for consistent passing of uncrushables

One-way clutch prevents head from spinning with empty chamber



Bowl assembly with easy-change liner and brass thread inserts for trouble-free adjustments under load

Hydraulic adjusting motor assembly for fast, safe operation

Wedge plate with roller bearings to distribute load 360 degrees around bearing

Cedarapids® Services

Proven Success, Global Reach

A comprehensive range of services. Original spare and wear parts. Customizable solutions to meet your exact needs. Outstanding technical expertise and support.

This is what Cedarapids® delivers to businesses – and what it delivers to businesses throughout the world via our global distribution network, service and distribution facilities and regional warehouses.

Spare and Wear Part Support

Our OEM parts help maintain and enhance the performance of your equipment – and you can count on us to get you the spare and wear parts you need, when you need them.

Cedarapids® parts are manufactured according to exact specifications, using high-quality materials, tools and techniques. By using genuine parts you are helping to ensure the maximum performance and longevity of your machines.

A Shared Focus

We understand your key focus is delivering your operational and financial goals. We share that focus: it's how we both measure success.

By combining our global service network and proven, in-depth industry knowledge with your operational expertise we're able to provide you with the right solution to deliver a quality end product – with increased productivity.

Field Services

We offer a comprehensive set of field services to meet your maintenance, repair and refurbishment needs – which means you get a cost-effective alternative to purchasing new or replacement equipment.

Our experienced field service and distribution network are available to you on site or at our global service facilities. We can repair broken or damaged equipment to like-new condition and restore worn or irreplaceable equipment to perfect operating condition – which minimizes costly downtime for you.

Combining our global service network and deep industry knowledge with your operational expertise ensures that we provide the best solutions...



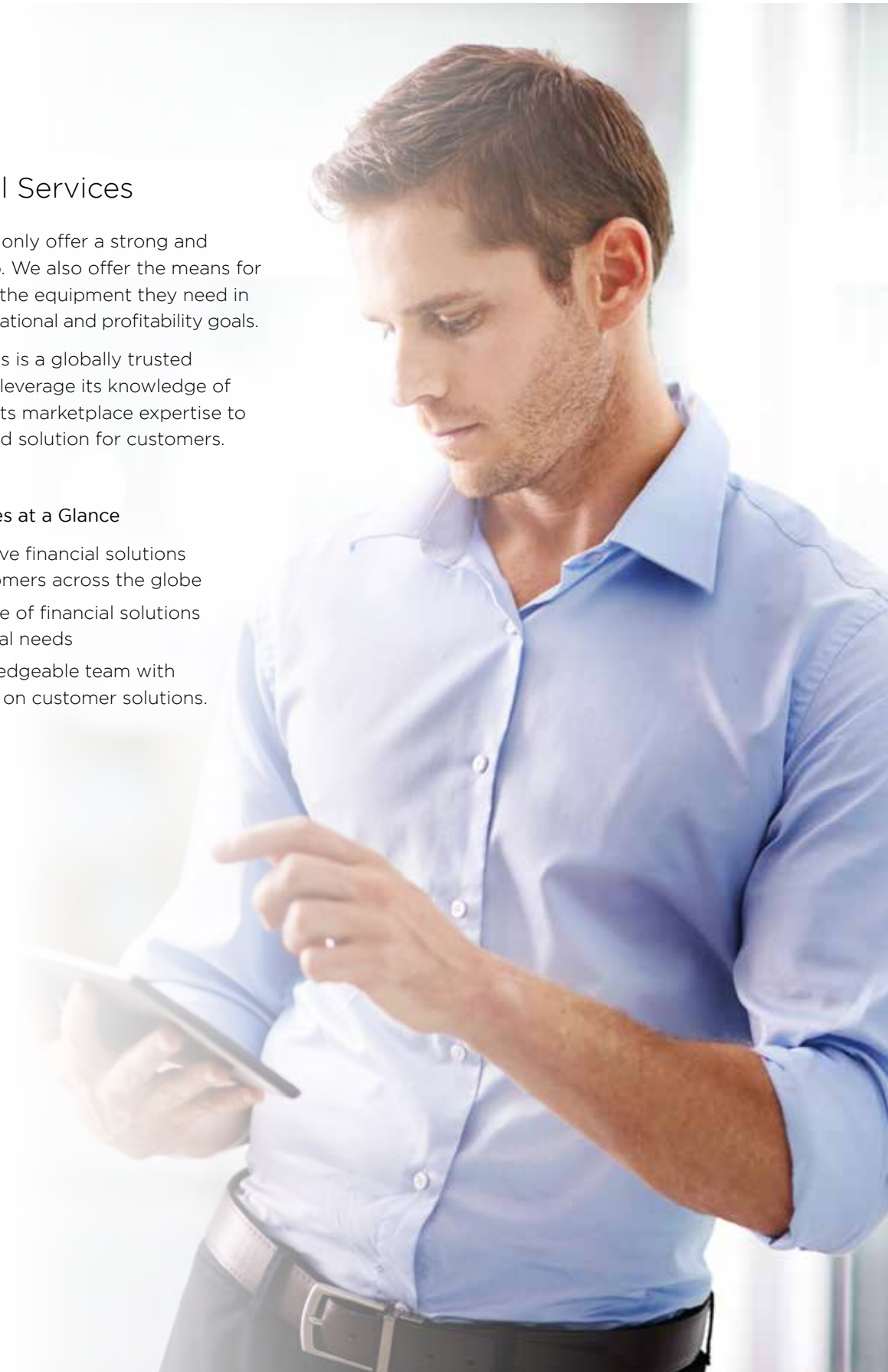
Terex® Financial Services

At Cedarapids® we not only offer a strong and broad product portfolio. We also offer the means for customers to purchase the equipment they need in order to meet their operational and profitability goals.

Terex® Financial Services is a globally trusted resource that is able to leverage its knowledge of Terex® equipment plus its marketplace expertise to provide a unique tailored solution for customers.

Terex® Financial Services at a Glance

- Providing cost-effective financial solutions to thousands of customers across the globe
- A comprehensive suite of financial solutions tailored to fit individual needs
- Dedicated and knowledgeable team with global reach, focused on customer solutions.



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Failure to follow the appropriate Operator's Manual when using our equipment or failure to act responsibly may result in serious injury or death.

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