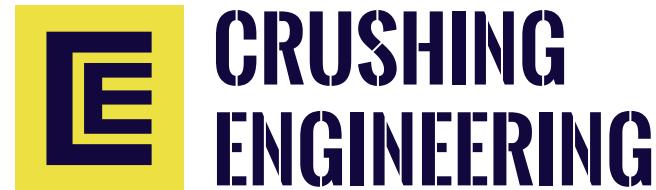


**CRUSHING
ENGINEERING**

**CRUSHING
ENGINEERING**

BROCHURE
2024





■ Welcome to Crushing Engineering, leaders in the manufacturing and design of components for the main mining machines. We have established ourselves as a benchmark in the industry, offering cutting-edge solutions for the most demanding challenges in the mining sector.



OUR COMPANY

Crushing Engineering is a factory dedicated to screening and manufacturing crusher spare parts to support maintenance of both mining and industrial equipment. We manufacture using our own engineering, and our experience of over 15 years has allowed us to develop a "proven" product.

This is a large-scale production line where we take care of everything, including design, engineering, equipment manufacturing, power supply, construction, assembly, and commissioning of these production units; within limited and precise timeframes.

Vibrating Screening and granulation solutions covering the entire screening circle including particle analysis, screening media, vibrating screens, process equipment, complete production analysis, and parts service and support.

We utilize structural calculation memory and finite element analysis, providing precision in our engineering and certainty in our products, meeting standards of strength and capacity.

Where others see problems, we see challenges and create solutions that prioritize productive efficiency.



OUR MISSION

Since our foundation, we have been committed to the mission of driving efficiency and performance in the mining industry through high-quality components and advanced design. With years of experience and a multidisciplinary team, we have overcome obstacles and achieved significant milestones in innovation and production.



OUR VISSION

At Crushing Engineering, we have a clear and ambitious vision: to be the preferred choice when it comes to components for mining machinery. We constantly seek excellence in every aspect of our operation, from initial design conception to the delivery of impeccable products and after-sales service.

OUR VALUES



1. INNOVATION

We embrace creativity and innovation in every project. We are always seeking new ways to enhance and optimize our products for the benefit of our customers.

2. QUALITY

Quality is the cornerstone of everything we do. Every component we manufacture meets the highest standards of quality and performance.

3. COMMITMENT

We are committed to total customer satisfaction. We work hand in hand with our customers to understand their needs and provide personalized solutions that exceed their expectations.

4. SUSTAINABILITY

We recognize the importance of sustainability in the mining industry. We design our components with energy efficiency and environmental impact in mind.

5. PARTNERSHIP

We encourage internal and external collaboration. We believe in the importance of partnering with other companies, suppliers, and experts to drive innovation and mutual growth.

OUR PRODUCTS

At Crushing Engineering, we specialize in manufacturing and designing key components for the most important mining machines, such as crushers, Vibrating screens, and bucket-wheel excavators. Our range of products is backed by years of experience and a focus on continuous improvement.

We are committed to providing reliable and durable solutions that help our customers maximize productivity and efficiency in their mining operations.

Thank you for considering Crushing Engineering as your reliable partner in the mining industry. We look forward to the opportunity to collaborate with you and contribute to the ongoing success of your company.



OUR PRODUCTS

CRUSHERS

The Crusher is a fundamental piece in the mining industry, designed to reduce the size of large rocks and minerals into smaller particles.

In our company, we offer a high-quality crusher that is designed to provide exceptional efficiency and performance in material crushing.

KEY COMPONENTS:

- **CRUSHING JAW**

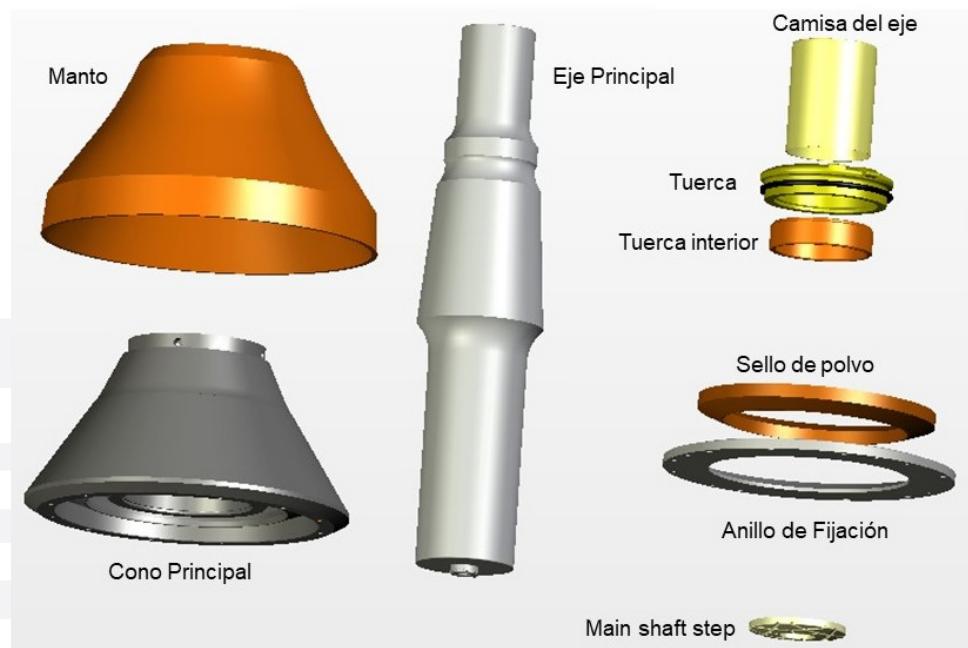
Designed to apply force and pressure to rocks, breaking them into smaller particles.

- **ADJUSTMENT SYSTEM:**

Allows controlling the output size of the crushed material.

- **HIGH-POWER MOTOR:**

Provides the necessary energy for the crushing process.



OUR PRODUCTS

VIBRATING SCREENS

Nuestro Harnero es una herramienta esencial en el procesamiento de minerales y agregados, utilizada para clasificar y separar diferentes tamaños de partículas. Con un diseño robusto y eficiente, nuestro harnero ayuda a optimizar la producción y la calidad del material.

KEY COMPONENTS:

- **CLASSIFICATION MESHES**

Perforated or woven surfaces that allow particles of a desired size to pass through.

- **VIBRATORY MOTOR**

Generates vibrations that facilitate the movement and classification of the material.

- **STURDY FRAME**

Provides support and stability to the equipment.



OUR PRODUCTS

BUCKET-WHEEL EXCAVATOR

The Bucket-Wheel Excavator is a large-scale excavation machine designed to load large quantities of material onto trucks or conveyors in mining and construction operations.

Our Bucket-Wheel Excavator is designed to be powerful, reliable, and efficient in excavation and loading task

KEY COMPONENTS:

• EXCAVATOR BUCKET:

Equipped with sturdy teeth for excavating and picking up the material.

• BOOM ARM:

Proporciona alcance y capacidad de elevación para cargar el material en los camiones.

• OPERATOR CABIN

Ergonomic space equipped with advanced controls to ensure operator safety and efficiency.



OUR PRODUCTS

EXCITERS

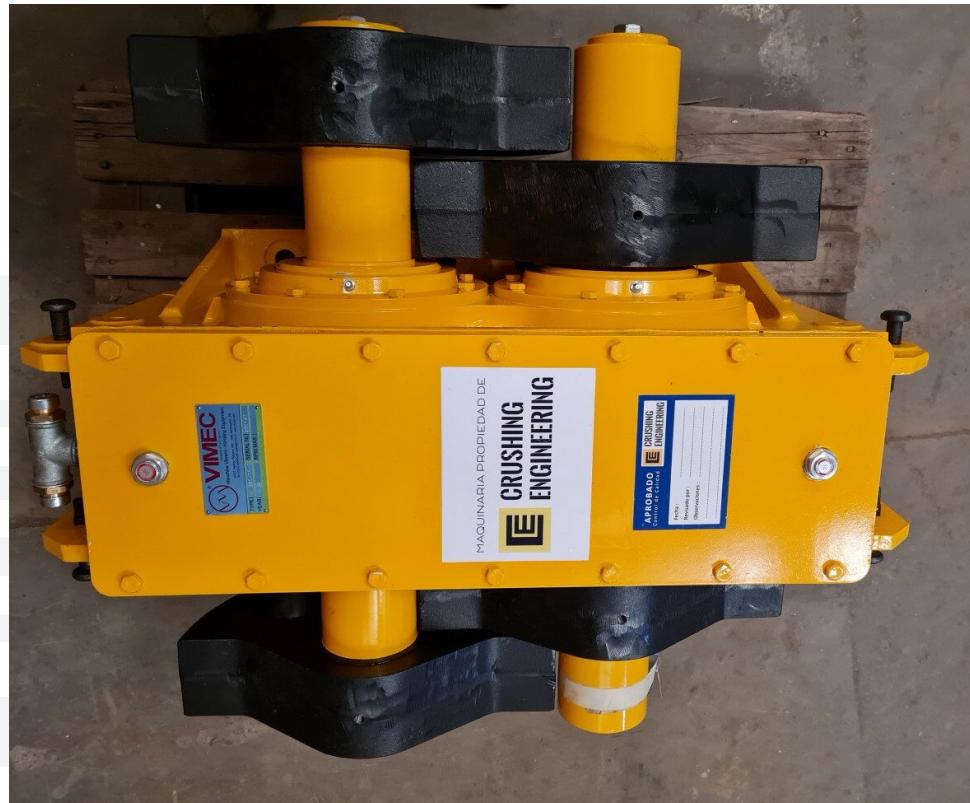
CRUSHING ENGINEERING's Exciters are designed to operate inside oscillating machines, sieves, or other vibrating equipment with particularly high payload levels and/or very high conveying performance. All exciter components are manufactured by us in our own workshop.

The linear motion exciter is a long-lasting, low-noise exciter, with lip and labyrinth seals to prevent the ingress of dust and moisture. A special ventilation vent prevents foreign bodies from entering.

Precision CNC lathes are used to manufacture exciter components, plug weights, and labyrinth seals.

Depending on the various mounting options for the exciters, there are possible installation angles where the rod must be used to ensure the correct oil level.

The angle from the horizontal plane is crucial; it must add up the beam angle and the machine's tilt angle.



OUR PRODUCTS

IDLERS

The bearing assembly welding to the tube is completely under the edge of the tube, preventing wear. A variety of tube diameters and thicknesses are available.

Low Temperature: For low temperatures (-20°F and below), rollers can be equipped with special grease bearings.



OUR PRODUCTS

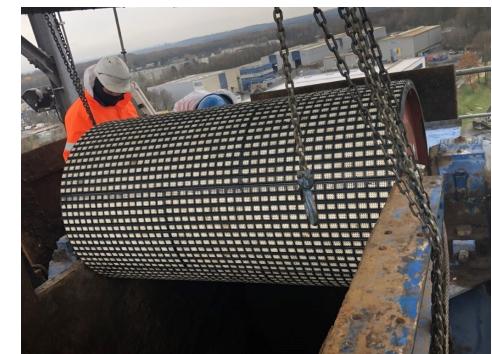
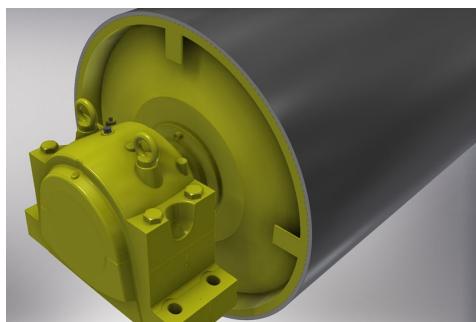
CONVEYOR BELT DRUMS

Static Balancing EPT 1 available. Balancing specifications define the maximum acceptable amount of pulley imbalance for the application.

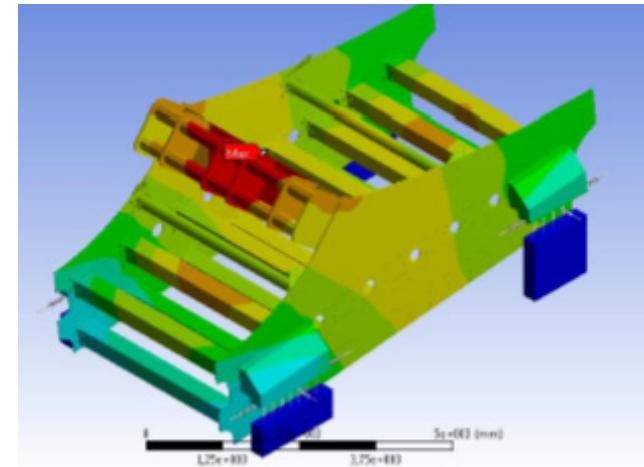
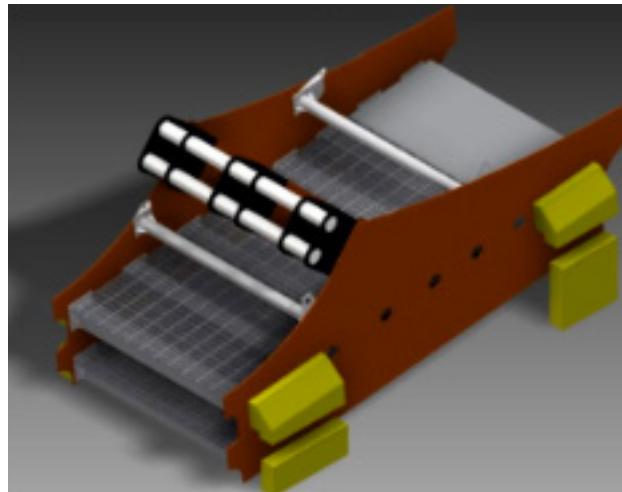
The ISO 1940/1 Specification of the International Organization for Standardization (ISO) is typically used as a guide for pulley balancing by pulley manufacturers. Typically, pulleys are statically balanced to meet the specification.

LINING:

Installed with a hot vulcanization method using our factory extruders and autoclave. Various rubber compounds are available depending on the application.



OUR SERVICES



REVERSE ENGINEERING

Reverse engineering is the key to perfectly understanding how existing products work. Our team of highly skilled engineers employs the latest techniques and technologies to dismantle, analyze, and comprehend each component of your product. Gain a comprehensive insight into its design, structure, and functionality to enhance and optimize your own projects.

CALCULATION REPORTS

Precision is paramount in the engineering world. Our comprehensive calculation reports ensure that every aspect of your project is properly documented and analyzed. Trust our experts to generate detailed and rigorous reports that meet the most demanding regulations and standards.

MECHANICAL SIMULATIONS

Need to optimize the performance of your designs before moving to production? Our advanced mechanical simulations provide you with a virtual perspective of how your product will behave in the real world. Leverage our knowledge and experience to identify weak points, reduce development costs, and achieve exceptional designs.

- Design and Manufacturing of Screens
- Design and Manufacturing of Crushers
- Design and Manufacturing of Exciters

VIBRATING SCREENS COMPONENTS

We present our range of specialized components designed to optimize and enhance the performance of your vibrating screens. With years of experience in the industry, we take pride in offering quality solutions that drive the efficiency of your vibrating screening and separation operations.

VIBRATING SCREENS MESHES

Our screening meshes are precisely designed to ensure accurate and efficient classification of materials. With a variety of openings and materials available, our meshes are suitable for various applications, from mining to the food industry.

Mesh Type A: Designed for fine materials and high precision.

Mesh Type B: Perfect for high load and abrasion applications.



CLASSIFICATION PANELS:

Our classification panels allow for effective separation of materials into different sizes. Manufactured with wear-resistant materials, our panels extend the life of your screens and improve the quality of the final product.

Classifier Panel X: Optimizes material distribution for increased efficiency.

Classifier Panel Y: Specially designed for dry separations.

MOTORS AND VIBRATORY UNITS:

Our motors and vibratory units are the power behind the smooth operation of your screens. Designed for strength and durability, these components ensure consistent performance even in the most demanding conditions.

Vibratory Motor Z: Adjustable power to suit different loads.

Vibratory Unit W: Designed for efficient and uniform vibration.



VIBRATING SCREENS COMPONENTS

SIDES

1. Structural Support:

The sides of the vibrating screens provide a solid and sturdy frame that holds all the internal components of the screen, such as the vibrating screening meshes, classification panels, vibratory units, and motors. This structural support ensures the stability and durability of the screen during operation.

2. Material Containment:

During the screening process, the sides help contain and direct the materials being processed. They prevent materials from spilling or falling out of the machine, which is especially important in applications where bulk materials are being handled.

3. Protection and Safety:

The sides also play a role in protecting operators and the surrounding environment. By containing materials and preventing their dispersion, they contribute to keeping the work area clean and safe. Additionally, as part of the robust structure of the vibrating screen, they contribute to the overall safety of the operation.

The sides of the vibrating screens, also known as side panels or flanks, are essential components that play a significant role in the operation and structure of these machines. These sides are part of the housing or box that contains the vibrating screen platform and other key components.

4. Customization and Adaptability:

In some screens, the sides may be removable or adjustable, allowing the machine to be adapted for different applications or material sizes. This provides flexibility in the vibrating screening process and allows for changes to be made according to the specific needs of the operation.

5. Design and Aesthetics:

The sides can also contribute to the visual and aesthetic aspect of the vibrating screen. A well-thought-out and attractive design can convey professionalism and quality in manufacturing.



CRUSHERS COMPONENTS

PERFORMANCE AND DURABILITY IN ONE PLACE

We present a complete range of components designed to optimize your crushers and enhance your crushing operations. With a long history in the industry and a focus on constant innovation, we are proud to offer high-quality solutions that elevate the performance of your equipment and increase efficiency.

OUTER CASING AND LINERS

The outer casing of crushers is the first line of defense in the crushing process. Designed with strength and durability in mind, our casing is built to withstand extreme loads of rock and material. Additionally, our high-quality liners are strategically placed inside the casing to protect it from abrasion and wear, ensuring an extended lifespan.

Reinforced Casing: Designed to withstand heavy loads and protect internal components.

High-Resistance Liners: Manufactured with quality materials to resist wear and abrasion.

CRUSHING ELEMENTS

Our crushing elements are essential for efficient and precise size reduction. We offer a variety of options to meet your needs, from hammers and impact bars to teeth and jaw plates. These components work together to achieve uniform crushing and a high-quality final product.

Crushing Hammers: Designed to handle materials of high hardness and resistance.

High-Performance Jaw Plates: Optimized for efficient crushing in various applications.



CONTACT US

En CRUSHING ENGINEERING, estamos comprometidos a proporcionar productos de alta calidad que cumplen con los estándares más exigentes de la industria.

Nuestros productos, incluyendo el Chancador, el Harnero y la Roto Pala, están diseñados para ofrecer un rendimiento óptimo y una durabilidad excepcional en entornos de trabajo rigurosos.

Si deseas más información sobre estos productos o estás interesado en adquirirlos, no dudes en ponerte en contacto con nosotros. Estaremos encantados de ayudarte.



PHONES

+56-51-2402296 | +56-51-2402297



E-MAIL:

sales@crushing.cl



WEBSITE:

www.crushing.cl



CRUSHING ENGINEERING



ADDRESS:

Geronimo Méndez 1541, Barrio Industrial, Coquimbo

