





Our company



CAMPINAS, BRAZIL Agency



BELO HORIZONTE, BRAZIL Agency

Serving in the solids processing industry since the company founding in 1980 our goal is to deliver the best cost beneit solution for our customer needs with world class equipment and provide the best in class value chain for transforming global natural resources with optimal eficiency and returns.

We represent equipment manufacturers that are global leaders in their ields and bring them together providing you with the best option for the supply of single critical equipment or complete process solutions.

Knowledge, imagination, excellence in our people and long term relationship with our customers are the values we passionately follow.

Based in Brazil and Argentina forming an important geographical link gives us the ability to reach all of Mercosur with the best global solutions.

Proglobal, your partner for success.



Screeners dry

Rotex Global is a manufacturer of dry-separation screening equipment with over 100 years of experience serving the needs of worldwide processing industries.

Applications:

Minerals / Ores / Coal / Fertilizers / Frac sand / Sands





ROTEX SCRENNERS

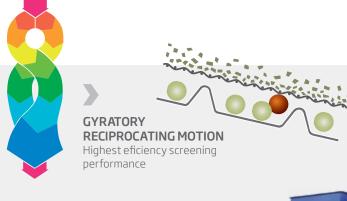
Original Rotex screener with gyratory reciprocating motion. Proven, rugged, long-lasting and versatile screener used in countless applications throughout the world.



APEX SCRENNERS

Same high eficiency performance gyratory reciprocating mo tion with a revolutionary ergonomic design, screen changes and maintenance can be carried out by a single operator.





HI-CLINE SCREENERS

Classic performance with unmatched quality. Designed for high frequency screening in the phosphatic ferti lizer process. The transmission of high frequency vibration to the screen only allows for While In Process cleaning without the need to stop the line.



MINERALS SEPARATOR

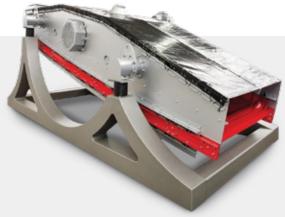
Providing high volume and unsurpassed screening performance for applications requiring accurate separations. Speciically designed to meet the demanding screening requirements of high-volume ap plications in the minerals industry.





Screening Technology

Leader supplier of thermal processing, vibrating screening, wet processing and sorting.



SCREENING

Eficient particle size separation of heavy screenable materials by using dynamically activated screening panels.

This Screener shows it advantages specially with dificult-to-screen materials. A relative movement of two oscillating masses efects streching and relaxing of the dynamic screen mats.

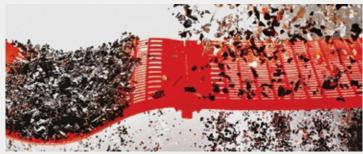
Dissolving of clumpings due to very high acceleration of material, up to 50G. No blinding of the mats booths screening eficiency. Optimal operation with adjustable oscillating masses.

Aplications:

Industrial minerals / Coal / Ores / Salts / Aggregates / Recycling materials







CONVENTIONAL VIBRATORY SCREENING

Linear vibratory screeners / Circular vibratory screeners

▼ SAND TRAP AND HIDROSIZER



Aplications: Dewatering screws / wet sizing process / wet classifying



Fluid Bed

Drying and cooling with outstanding quality.

Sorting

We ofers to its customers the complete processing of SORTING industrial products and minerals.









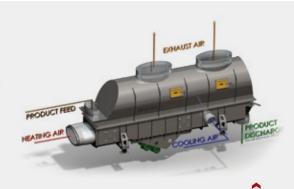
DRYON

Economically eficient drying system and uniform quality of the product with gentle handling.

Another advantages are the high level of availability of the system, the easy cleaning and discharging and the inluence on retention time by means of vibration adjust ments.



- -Mining & Steel
- -Recycling
- -Petrochemistry
- -Salt industry
- -Chemical Industry -Industrial Minerals
- -Sand
- -Coal
- -Others



DRYON Single mass vibration system



DRYON Resonance vibration system

Köppern

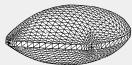
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Briquetting with roller presses

During briquetting granular material is compacted between two countercurrently rotating rolls.

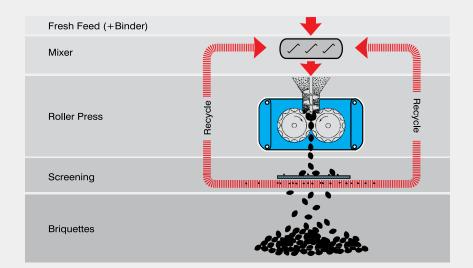
Forming of briquetting may be supported by a binding agent. Application in ashes, lime, metallic ores, coal, oxides, ilter dusts, metal chips and turnings, salts, sponge iron, steelworks dust and others.





Typical briquette dimensions

Volume	cm ³	1,5	3	5	10	20	100	220
Width	mm	19,0	26	30	33	45	104	92
Height	mm	16,0	20	24	29	36	49	69
Thickness	mm	9,0	12	14	18	22	29	55



Briquetting rings available in various materials for diferent applications.







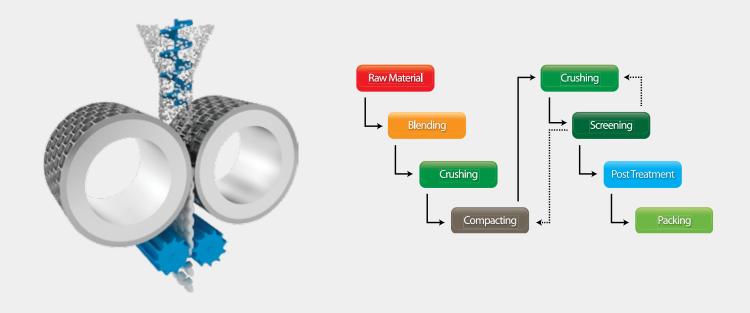




Compaction with roller presses

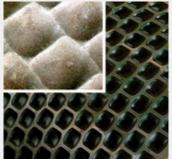
Compaction with roller presses is the most eficient way to reach the desired specs of your product ines such as potash, lithium, borates, fertilizers. Feeding reduced size materials and getting out compacted strips before crushing and screening set you material on spec. Recycling of aluminium and other metals.















Köppern

High-pressure **grinding**

During high-pressure grinding in roller presses coarse mineral materials, such as cement clinker, ore or limestone are subjeted to very high compressive forces.

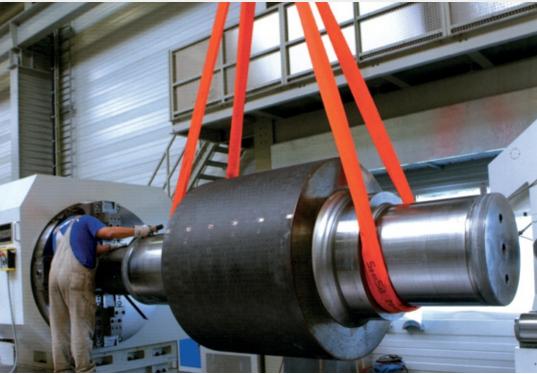
The sheets produced contain a high amount of the ine particles. Köppern high-pressure grinding rolls are operation- and maintenance-friendly. Easy separation of drive and rolls together with the Köppern hinged frame allow for quick roll removal and replacement. Wear parts of the gravity feeder can be replaced easily from the outside.











Hexadur

Köppern, the specialist in the high-pressure comminution introduce HEXADUR the wear protection for the HPGR of the cement industry.

With the inherent disadvantages of HPGRs in mind Köppern has pioneered the development of a new generation of highly eficient wear protection for HPGRs with the objective of achieving the combination of: Long Service Live / Uninterrupted Availability / Stable Throughput Over Its Service Life / Low Operation Costs.

Köppern



Manufacturing process:



1. Base ring. The assembly.



2. Capsule assembly. Powder illing

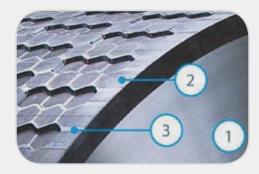




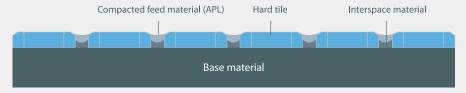
3. Evacuating and sealing. Hot isostatic pressing (HIP)



4. Removing the capsule. Hardening.



> Principle of the HEXADUR® Surface



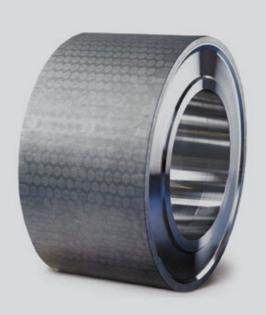
HEXADUR® Multi Material Wear Protection System consisting of a:

1. Base material

2. Wear resistant HEXADUR® tiles

3. Tough interspace iller material









Particle size reduction

Impact Crushers / V Roller Max /

Others: Hammer Mills - Lumpbreakers - Fine Grinders - Waste Recyclers - Chain Mills.

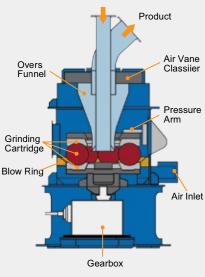


V ROLLER MAX

The STEDMAN V Roller Max is an Air Swept Fine Grinding System. Similar to vertical Raymond mills but introducing a new grinding media technology with results comparable to traditional ball mills.

Feed material enters the center of lower ring and lows to pulverizing zone through centrifugal force. Material is air-swept for classified conveyance by means of an air stream supplied through the blow ring. Fine powder is air-swept to a second classification zone.





Feed









VERTICAL IMPACTOR

HAMMER MILL

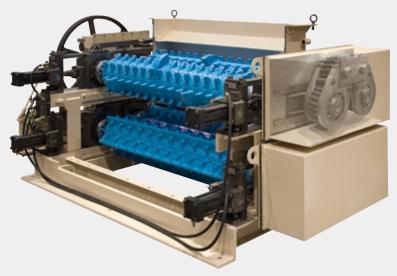
DUAL ROTOR CRUSHER

Size reduction and Material handling equipment

TerraSource Global is the ultimate resource for material pro cessing and handling equipment, uniting market leaders whose brands are recognized and trusted around the globe.



Single-Stage, Two-Roll Crushers Two-Stage, Four-Roll Crushers Nanosiz-R® Roll Mills



MULTI-ROLL CRUSHERS

Gundlach roll crushers are available in four model series with single-stage and twostage designs and produce precise product sizing with fewer ines.





Hidrocyclons

High capacity classification cyclones / MAX dense medium cyclones / Pulp distributors / Cyclon distributors / PU, RUBBER and CERAMIC lining.

Gravity Concentration

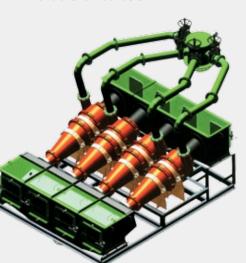
Gravity concentration is used as a lowing ilm concentrator in several wet processing. With the advantages of relatively low capital cost and virtually no operating cost (reagents, consumables, power, wear).



HIDROCYCLONS

Multotec has designed and optimized cy clons for diferent applications:

- -High capacity classification cyclons.
- -VV Cyclons.
- -Compression rubber moulded range cyclons
- -Max dense medium cyclons.
- -Cast iron dense medium cyclons.
- -Additional components like pulp distributors and overlow launders.



Applications:

Industrial minerals / Coal / Metallic ores / Fer tilizers in wet processing / Chemical industry / Iron ore / Zinc / Tinc and similar.





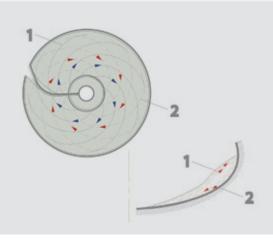
SPIRAL CONCENTRATORS

Coal spiral concentrators. SX4 / SX7 / MX7.

Heavy minerals spiral concentrators. HX5 / SC.

Pulp distributors, pipe launders systems.

Centrifugal forces drive low in outer direction: (1) Upper layer goes radially outwards, and low returns radially inwards at the bottom as a result of (2) friction at bottom = low velocity low centrifugal forces. Resulting in circulation and in radial direction superimposed on main low.







Sampling Systems

Cross belt sampling system (dry) / Cross stream sampling systems (dry and wet) / Two-in-one samplers (wet) / Dividers, sampling col lectors, sampling milling and collectors / Complete systems.

Magnetic Separators

A complete equipment line for wet and dry application of magnetic separators.

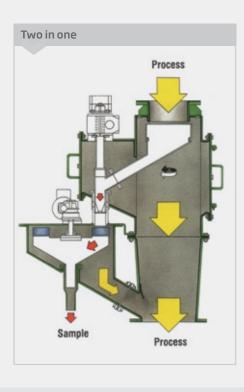


Secondary Rotating Plate Diveder



WET SAMPLING SYSTEMS

- -Wet cross cut sampling solutions
- -Two in one sampler

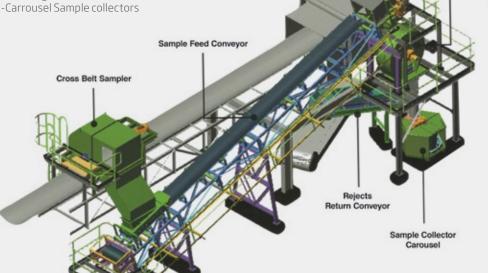


DRY SAMPLING SYSTEMS

-Cross belt sampling systems -Cross stream sampling systems

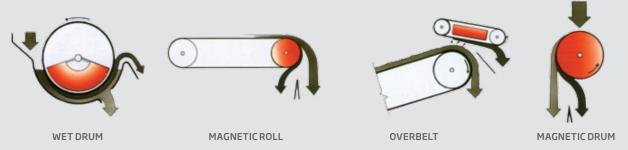
-Dry cross-cut sampling systems -Primary and secondary crushing station

-Rotating Plate dividers





Wet drum magnetic separator / Wet high intensity magnetic separator / Induced magnetic separator / Magnetic roll separator / Overbelt magnetic separator / Magnetic drum separator.







The material handling problem solvers. PEBCO is the major manufacturer of valves, diverters, feeders, dustless loading systems and chutes for the bulk material handling industry.

Loading Systems

Spouts and feeders

Dustless Loading Spouts. Telescopic Chutes. Cleveland Cascade Chutes. Mass Flow Feeders. Uni-load Systems.

AUTOMATED TRUCK LOADOUT



The bulk loading systems of the future, load ing railcars or trucks with amazing speed and high weight accuracy.

DUSTLESS LOADING SPOUT



 The Dustless Loading Spout (DLS) from PEBCO is available in many models and conigurations engineered to withstand the rigors of hash daily industrial use.

Each system is designed to minimize the emission of dust into the environment while loading dusty, free-lowing materials into a wide variety of containers and vehicles.

CLEVELAND CASCADE CHUTE



Strong, simple and highly lexible The Cleve land Cascade® Chute consists of a series of oppositely inclined cones, supported by straps, and surrounded by an independent wind shroud.

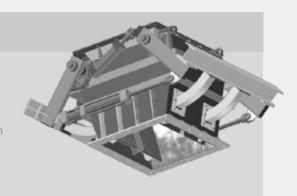
A carrier at the lower end of the chute is raised or lowered by cables from a winch assembly. When lifted, the carrier supports the compact stack of cones, while the cones themselves automatically stack into one another without any form of guide.

AUTOMATED RAILCAR LOADOUT



MASS FLOW FEEDER

The mass low feeder was introduced for solving the problems associated with asymmetric funnel low, funnel low, and rat-holing. The need to develop a solution to aid in the solving of the asymmetric low problem discovered in many silos.

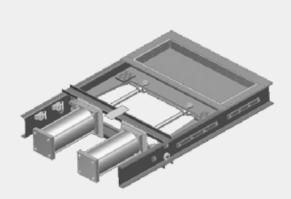


Material handling valves

Slide Gates. One-Way Rolling Blade Gates. Clamshell Gates. Diverter Gates, Lock Gates,



DIVERTERS



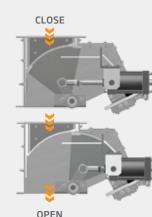
> SLIDEGATES

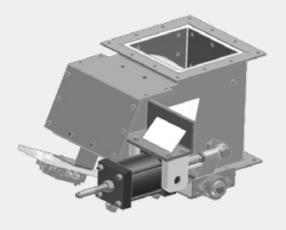
The most used valve in the bulk industry re-engineered to achieve low operational costs and low initial investment.

Heavy-duty structural design. Product contact surfaces made of abrasion resistant steel. Heavyduty regreasable rollers with cast nylon high strength cryogenic slide bars as optional. Displace ment pocket. Perimeter seals with an option for each app.



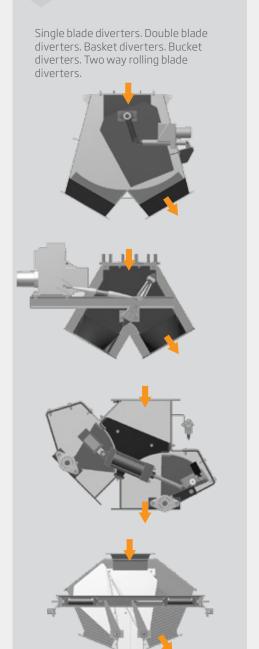
The Rolling Blade Gate incorpo rates a camming into the seal for a positive cut-of.

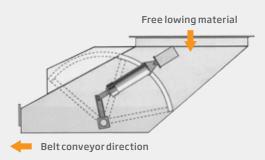




> ROLLING BLADE **BELT FEEDER**

Using the rolling blade features and advantages the RBBF unify high availability with a very reli able low cost of investment and operation for loading free lowing material into belt conveyors.

























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