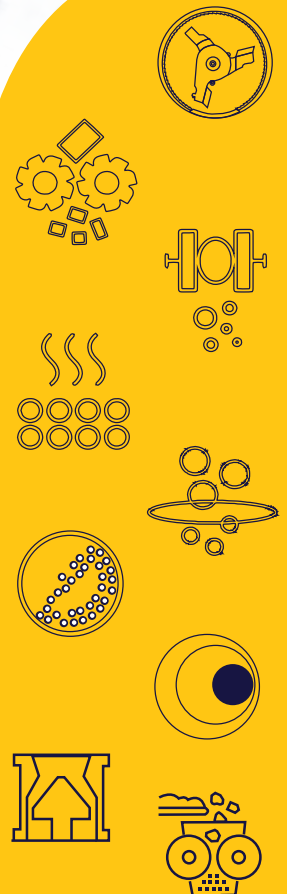




SAMPLE PREPARATION DRYING **mills** flotation **SIEVING**
GRINDERS separation R&D mixing **CONCENTRATOR**
recycling **cutting** recycling pressing size reduction
crushers storing **CONVEYING** **dividing** **SHREDDING**
mineral processing filtering homogenizing **FURNACES**
screening **INNOVATION** **splitting** automation





rantek

INNOVATION IN POWDER

RANTEK offers a wide range of private products featuring your corporate identity. Not only can our machines give you an additional product line but also enhanced a degree of credibility and trust with giving you a more personalized brand experience.

Rantek is at the Mineral Processing, Sample Preparation, Size Reduction, Ore Enrichment and Material Testing product development. We pioneer wide range and capacities pulverizing systems and make custom sampling solutions for customers all over the world. Our commitment to keep improving is highlighted in the release of next generation pulverizing mills, high-capacity fine jaw crushers, innovative test systems and more.

The demand of modern industries require higher quality and production rates but with reduced lead time and cost. Automation offers a solution to this. This is why we engineer processes to fully automate key items like size reduction and sample preparation plants.

We are always up to the challenge to meet the customers requirements. Years of experience together with creative engineering is what makes these projects a success.

WE CREATE INNOVATIVE CUSTOM MADE SAMPLING SOLUTIONS.



crushers

RAM25 jaw crusher std

As a result of the tests, 94.9% of the final product size is under 2 mm.

It can break materials with a hardness of 1.5 - 8.5 F MOHS.

Feed material : Very hard, Hard, Medium-hard, Brittle

Material feeding size: < 100 mm

Final thickness : < 1 mm

Jaw material: Manganese alloy steel

Jaw Plate Size : 100 x 300 mm

Jaw Aperture Adjustment: 1 - 35 mm

Electrical : 3 kW, 1500 rpm, 380 V, 50 Hz



RAM30 jaw crusher pro

As a result of the tests, 94.9% of the final product size is under 2 mm.

It can break materials with a hardness of 1.5 - 8.5 F MOHS.

Feed material : Very hard, Hard, Medium-hard, Brittle

Material feeding size: < 100 mm

Final thickness : < 180 micron (d29)

Jaw material: Manganese alloy steel

Jaw Plate Size : 100 x 300 mm

Jaw Aperture Adjustment: 1 - 35 mm

Electrical : 3 kW, 1500 rpm, 380 V, 50 Hz



RAM40 jaw crusher Xlarge

Desired material sizes by breaking bauxite, samot, ore, stone, sand, quartz, limestone, marble, clinker, coke, coal, uranium ore, ferro alloys, slag, silicate, cement clinker and similar hard, medium hard and quick drying inorganic materials obtained.

Feed material : Very hard, Hard, Medium-hard, Brittle

Material feeding size: < 130*200 mm

Size reduction principle : Pressure

Material feeding size: < 200 mm

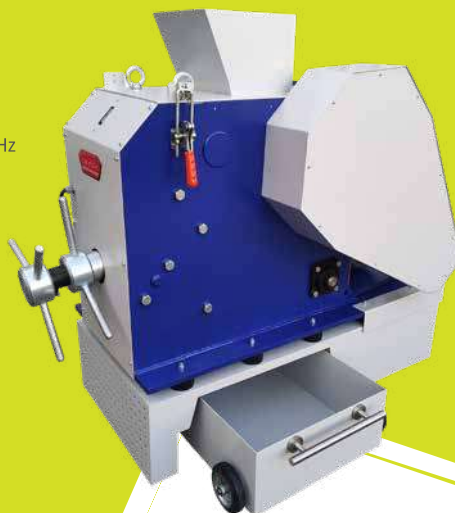
Final thickness : < 3 mm

Jaw material: Manganese alloy steel

Jaw Plate Size : 400 x 410 mm

Jaw Aperture Adjustment: 1 - 80 mm

Electrical : 7.5 kW, 1500 rpm, 380 V, 50 Hz



RAM35 jaw crusher large

As a result of the tests, 94.9% of the final product size is under 2 mm.

It can break materials with a hardness of 1.5 - 8.5 F MOHS.

Feed material : Very hard, Hard, Medium-hard, Brittle

Material feeding size: < 130*200 mm

Final thickness : < 1 mm

Jaw material: Manganese alloy steel

Jaw Plate Size : 200 x 400 mm

Jaw Aperture Adjustment: 1 - 35 mm

Electrical : 5.5 kW, 1500 rpm, 380 V, 50 Hz



RAM20 jaw crusher tft

The material of the grinding jaw and equipment is AISI 304 stainless steel.
Jaw width is approximately 45 x 59 mm.
Jaw gap width adjustment can be selected between 11-0 mm in 0.1 mm increments.
The crushing process speed can be adjusted between 550 and 950 min-1 in increments of 50.
It can break materials with a hardness of 8.5 - 1.5 F MOHS.
Electrical : 1.1 kW, 1500 rpm, 380 V, 50 Hz



RAM15 jaw crusher mini

Mini Jaw Crusher has a 200*80mm jaw sets and feed for crushing 50mm and smaller feed material to 1mm and finer at up to 15 kg/per hour.
It can break materials with a hardness of 1.5~7.5 F MOHS
Jaw Material : HARDENED STEEL ALLOY
Application : Hard quartz to soft claystone
Electrical : 380V / 50Hz / 3 phase / 1.1 kWA



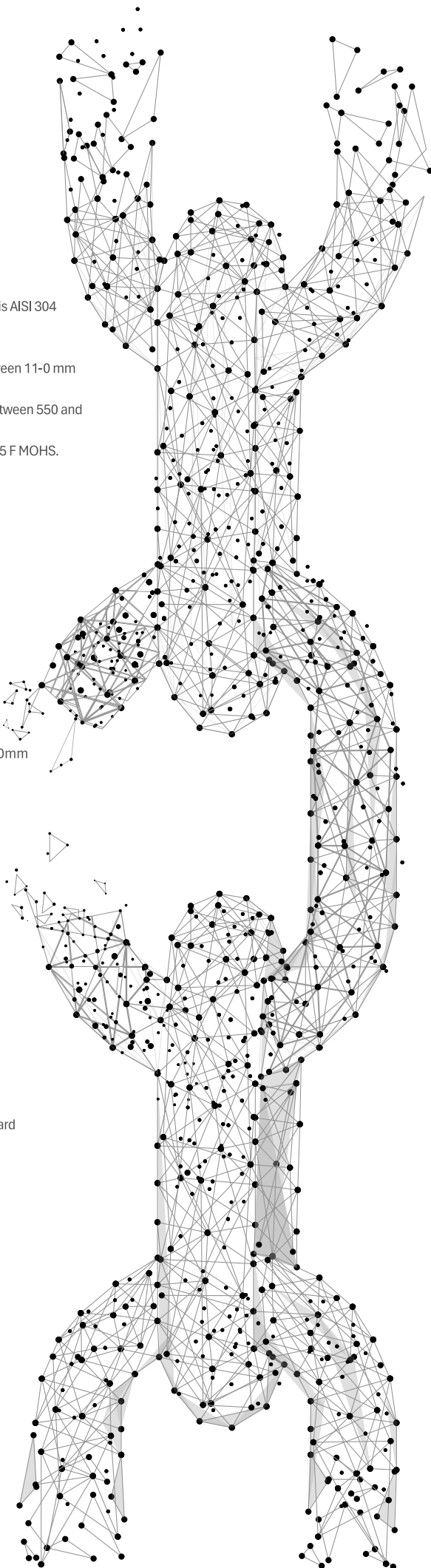
RAM50 COMBO CRUSHING +DIVIDING SYSTEM

Advance Jaw Crusher

Feed material : Very hard, Hard, Medium-hard, Brittle, Hard
Size reduction principle : Pressure
Maximum input lump size : 50mm
Product size -2mm : (+%94)
Jaw material: high density heat treatment steel
Jaw Plate Size : 300 x 70 mm
Jaw width : 300mm
Dust extraction : 2 extraction ports available
Motor power : 5.5kW, 3 phase

Rotating Sample Divider

Motor power : 0.18kW, 3 phase
Maximum input lump size : 10mm
Width x Height x Depth : 500 x 739 x 741mm
Weight : 95kg
Dust extraction : 1 extraction port available





roll mill

RAM 165 double roll crusher

RANTEK Double Roll Crushers are used as a second stage crusher and grinder in all hard and medium hard ores.
Roller Dimensions are 250*150 mm.
The size of the broken pieces is no more than 12 mm.
The size of the crushed material is 3-0.2 mm depending on the gap between the rollers.
Capacity is 0.3-0.5 m3 for material with 2 mm thickness.
The rotation of the rollers is provided by a reducer of suitable power.
The tensions in the rollers are absorbed by a spring system.
Electric motor: 4 hp, 1400 rpm, 380 V, 3p, 50 Hz



cone crusher

RAM 320 laboratory cone crusher

RANTEK Cone Crushers are durable, ruggedly constructed machines to meet many demanding pilot plant or laboratory applications.
Adjustment for varying the product size is quick and easy.
Cone crushers are used to quickly turn mass materials into small particles.
The material feeding opening is 300 mm (12 ").
Material feed size : 20 mm
Final fineness < 0.500 mm
Electrical supply data : 380 V, 50 Hz, 3 HP.
W x H x D closed : 630 x 550 x 970 mm





grinder



RAM150 pulveriser disc mill

Robust design, RANTEK Disc Mill can be used under rough conditions in laboratories and pilot plants, as well as online for the quality control of raw materials. The 2.2 kW Powerful Disc Mill requires only a few minutes to achieve the desired grind size.

Feed material : medium-hard, hard, brittle

Size reduction principle : pressure, friction

Material feed size* < 20 mm | Final fineness* < 50 μ m

Material of grinding tools : hardened steel, manganese steel

Gap width setting | Collector capacity : 3 Liters



crushers

RAM 335 hammer mill crusher

RANTEK Hammer Crusher is used for the rapid, safe and efficient crushing and secondary crushing of medium-hard, hard, brittle and tough materials.

Feeding Size: <30 mm - <100 mm*

Final Fineness : < 1 mm - < 3 mm*

Crushing Capacity Availability : 250kgs/hr - 2500kgs/hr

Electrical supply data : 380 V, 50 Hz, 5 kWA





VIBRATORY

disc/ring mills

Vibratory Ring Mill grinds soft, hard, medium-hard materials to analytical working dimensions quickly and without loss. With its robust design, it is widely used in cement, geology, mining, metallurgy sector and power plants. Extreme pressure and impact enable fine grinding in 3-1 minutes.



RAM60 vibratory ring mill eco



RAM65 vibratory ring mill std



RAM70 vibratory ring mill pro



RAM75 vibratory ring mill proXL



PULVERIZER

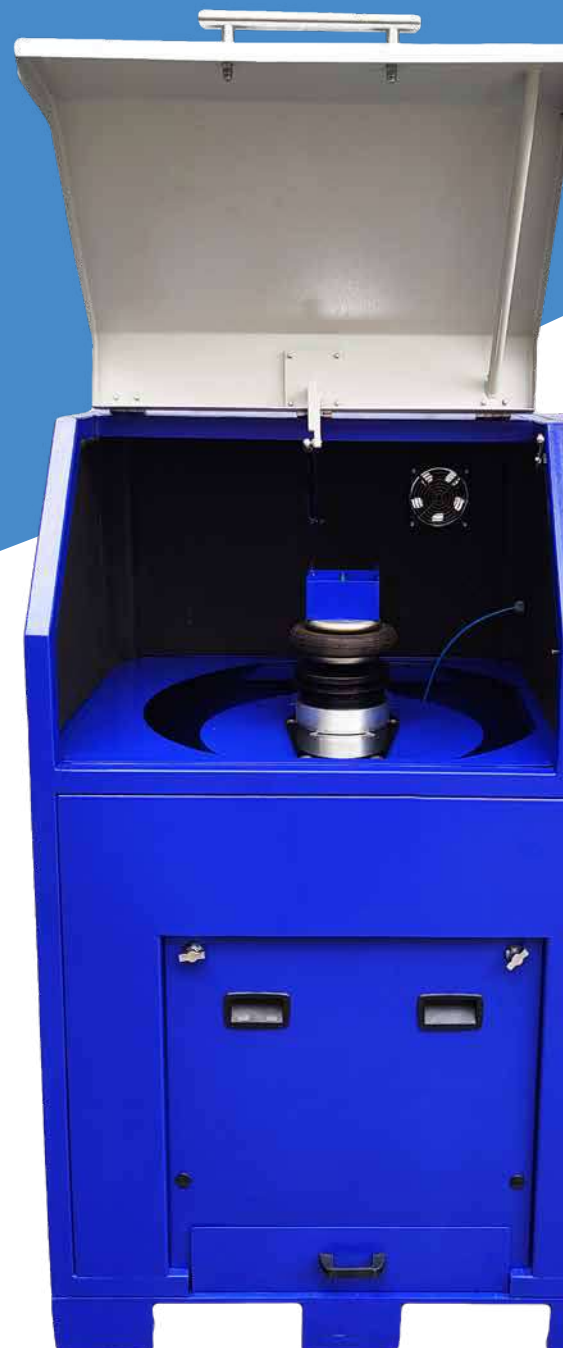
disc/ring mills

**TRANSMISSION FORCE
LONG LIFE
HEAVY DUTY MOVEMENT MECHANISM**

With its robust design, it is widely used in cement, geology, mining, metallurgy sector and power plants. Thanks to its fine grinding and speed, it gives excellent results in sample preparation for spectral analysis. Vibratory Disc/Ring Mill works with the effect of friction. The grinding set is placed on the plate of the device and subjected to circular horizontal vibration. Extreme pressure and impact enable fine grinding in 3 - 1 minutes. The friction force acting on the sample performs the process with the centrifugal force acting on the grinding rings.

RAM85 pulverizer disc/ring mill 5000

Same as mod. RAM80, but in additional ;The optimum filling of a RAM85 is around 3500cc sample.



RAM80 pulverizer disc/ring mill 2000

Pneumatic clamping system
The optimum filling of a RAM80 is around 1300cc sample.
Output size < 75 μ m
Max. Grinding Bowl Volume : 2000 cc
Grinding time setting : digital, 00:01 to 99:59



ball mill

Ball Mill is a suitable process machine for grinding and homogenizing soft, fibrous, hard and brittle materials in dry and wet condition. The ball mill is designed to accept ball charge up to %30 of the total



RAM115 bond mill 22L

Same as mod. RAM110, but in additional ;
Grinding Mill volume: 22 Liters.
Grinding chamber made of 304 S.S.
The rotation speed can adjustable up to 70 rpm.



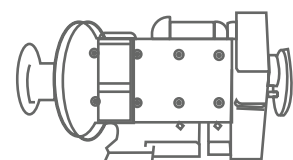
RAM105 ball mill 5L

Same as mod. RAM110, but in additional ;
Grinding Mill volume: 5 Liters.



RAM110 ball mill 28L

It is capable of setting time via the digital control unit.
Standard speed of the device is 70 rpm
Grinding Mill volume: 28 Liters.
Sound should be in the cabin system.
The time setting is automatically set to stop after the set time.
Supplied Set of high carbon chromium alloy steel - Grinding Balls.



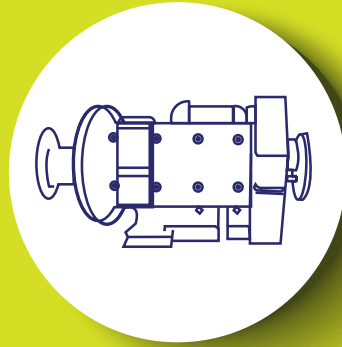


RAM130 rod mill 21l

Laboratory Rod Mill is designed to meet the industrial requirements to grind coal, cement and a wide variety of ores.

A Laboratory Rod Mill for large capacity fine milling up to 21 litre vessel.

Variable speed setting | Variable volumes on request



RAM135 tiltable ball mill

Feeding Size: < 8 mm*

Feed quantity 500-1500 ml

Final Fineness: < 40 μ m*

Rotation speed infinitely variable between 0-100 rpm

Jar made of AISI 304 S.S – 9 L internal volume

Easy positioning parallel (grinding) and vertical (loading-unloading).



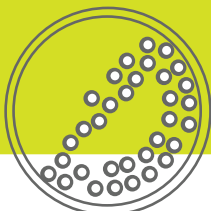
RAM245 micro ball mill

Sample size $\leq$ 1mm

Sample amount $\leq$ 50-80ml

Final discharge size : About 5-10 μ m

Milling method : Dry milling, wet milling, atmosphere milling





ball mill

WET & DRY GRINDING FEATURE

Ball Mill is a suitable process machine for grinding and homogenizing soft, fibrous, hard and brittle materials in dry and wet condition. The ball mill is designed to accept ball charge up to %30 of the total volume. The balls and sample are filled into the Grinder Mill and allowed to grind for the desired time.



RAM1370 pilot scale ball mill 600l

A special collecting chamber system for separating the grinding balls and the grinded material during the unloading process of the grinded material from the ball mill. Equipped with automatic digital control panel. It is capable of setting cycle & time via the digital control unit.

Adjustable Speed variable 7-33 rpm
Grinding Mill volume: 600 Liters
Grinder Mill Diameter: 800 MM
Grinder Mill Length: 1200 MM
Supplied with special collector for grinding powder.

RAM1375 pilot scale ball mill 1177 l

A special collecting chamber system for separating the grinding balls and the grinded material during the unloading process of the grinded material from the ball mill. Equipped with automatic digital control panel. It is capable of setting cycle & time via the digital control unit.

Adjustable Speed variable 7-33 rpm
Grinding Mill volume: 1177 Liters
Grinder Mill Diameter: 1000 MM
Grinder Mill Length: 1500 MM
Supplied with special collector for grinding powder.





RAM1365 continuous ball mill

The Continuous Ball Mill is a type of grinder used to grind and blend materials.

It works on the principle of impact and attrition.

The Continue Ball Mill is divided in three main components.

The vibratory feeder, ball mill and collector hopper.

Max. volume of inlet funnel : 10 Litres

Adjustable Speed : 9.1 to 45.8 rpm



RAM1390 COMBO continuous ball mill 50 l

The Continue Ball Mill is divided in five main components.

vibrating feeder + continuous ball mill + screw feeder + airjet shaker + cyclone unit

Fully automatic automation system works simultane.

Grinding Mill volume: 50 Liters.

Full working parts are made of AISI316L S.S. against cross contamination.

The rotation speed can adjustable via. TFT Screen.

Airjet sieving down to 20 micron as automatically.

Thanks to Rantek software, the entire working system can be viewed instantly on the TFT Touch screen.



planetary ball mill

Planetary ball mill is a device that can reduce samples to the smallest size. It differs from conventional grinding and reduction processes. It is especially suitable for grinding colloidal samples and for studies containing mechanical alloys.

Grinding Chamber Material: Tungsten Carbide, Zirconium, Agat, Aluminum Oxide, Stainless Steel, Hardened Heat Treatment Steel



RAM260 planetary ball mill led

DIGITAL LED SCREEN
DOUBLE UNIT in one frame
Grinding Chamber Capacities: (between 50 ml to 500 ml) * 2
Material inlet size < 20 mm
Output size < 1 μ m - 20 μ m
Number of grinding stations : 2
Table speed : 100 - 650 min⁻¹
Grinding time setting : digital, 00:00:01 to 99:59:59

RAM265 planetary ball mill tft

DIGITAL LED SCREEN
DOUBLE UNIT in one frame
Grinding Chamber Capacities: (between 50 ml to 1000 ml) * 2
Material inlet size < 20 mm | Output size < 1 μ m - 20 μ m
Number of grinding stations : 2
Table speed : 100 - 650 min⁻¹
Grinding time setting : digital, 00:00:01 to 99:59:59



RAM270 planetary ball mill tft

TFT TOUCH SCREEN
FOUR UNIT in one frame
Grinding Chamber Capacities:
(between 100 ml to 10000 ml) * 4
Material inlet size < 20 mm
Output size < 1 μ m - 20 μ m
Number of grinding stations : 4
Table speed : 100 - 650 min⁻¹
Grinding time setting :
digital, 00:00:01 to 99:59:59



RAM815 attritor stirred mill

Its advantages of high efficiency and fine granularity meet technological requirements of various processes. Stirred ball mill is a kind of ideal equipment that are used to crush new materials and research painting for universities, research centers and enterprises because of its features of small batch and low size end material. A variety of grinding jars in different materials is available for customer's option such as stainless steel, corundum ceramic, polyurethane, zirconia and so on.

Stirred Bowl Volume : Between 500 cc to 10000 ml

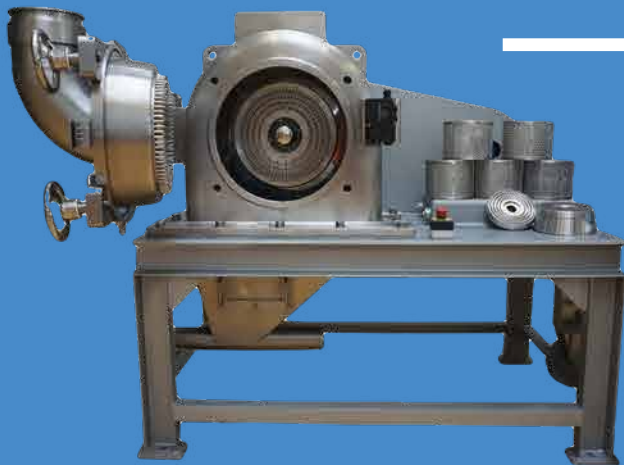
Material Feed Size : ≤ 5 mm

Output Granularity : $\leq 1 \mu$ m

Adjustable Rotate Speed : 50-1400 (rpm)

fine impact mills

The industrial fine impact/pin mill (also known as a universal mill, turbo mill, and impact mill) is a one pass grinding equipment ideal for achieving the micronization of bulk materials and powdered products. Common applications involve the fine grinding of chemical, pharmaceutical, animal feed, mineral and food industries. The average achievable particle size range of the pin mill is around a d50 of 80 microns. Results can vary depending on the



RAM710 fine impact mill 315

Made from mild steel, stainless steel 304L or 316L.
Size reduction of soft materials up to 3.5 on the Mohs' scale.
Generously dimensioned mill door for easy cleaning and exchange of grinding elements.
Production of powders with a high mass fraction within a defined particle size range.
Diameter of Mill : 500 mm
Power : 37 kwa
Theoretical Flow in M³/h : 2000

RAM700 fine impact mill 160

Made from mild steel, stainless steel 304L or 316L.
Size reduction of soft materials up to 3.5 on the Mohs' scale.
Generously dimensioned mill door for easy cleaning and exchange of grinding elements.

Meets the latest ATEX standards. (optionally)
Production of powders with a high mass fraction within a defined particle size range.
Diameter of Mill : 160 mm
Power : 5.5 kwa
Theoretical Flow in M³/h : 250



RAM270 planetary ball mill tft

Made from mild steel, stainless steel 304L or 316L.

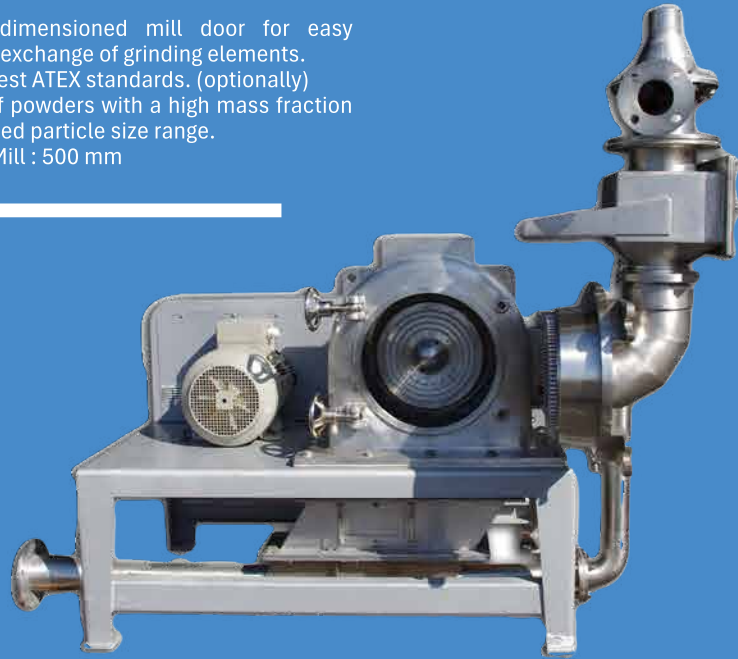
Size reduction of soft materials up to 3.5 on the Mohs' scale.

Generously dimensioned mill door for easy cleaning and exchange of grinding elements.

Meets the latest ATEX standards. (optionally)

Production of powders with a high mass fraction within a defined particle size range.

Diameter of Mill : 500 mm



RAM730 fine impact mill 630

Made from mild steel, stainless steel 304L or 316L.

Size reduction of soft materials up to 3.5 on the Mohs' scale.

Generously dimensioned mill door for easy cleaning and exchange of grinding elements.

Meets the latest ATEX standards. (optionally)

Production of powders with a high mass fraction within a defined particle size range.

Diameter of Mill : 630 mm



classifier mill

RAM750 air classifier mill

The RANTEK Air Classifier Mill is a high speed screen-less vertical hammer mill with an integrated on-line adjustable air classifier that is generally used to reduce particles in the 40-8 microns range.

Allowable Feed Size: 0 TO 15 MM

Achievable Output Fineness: 8 MICRONS TO 40 MICRONS

Throughput Capacity: 5 KG/HR TO 2000 KG/HR



Machine Contact and Non-Contact Parts available in Cast Iron, Carbon Steel, 304, 304L, 316, 316L

Wearable parts available in hard materials like Forged Alloy Steel, Welded Hard Facing, Hard Alloy Steel Casting, Cast Iron Internal fan available in single or two-piece design. Available in external fan design where airflow control is required.

Liners available in water jacketed design to provide cooling in the grinding chamber.



15 mm
▼
8-40 µm

spiral jet mills



Allowable Feed size: 0 to 25 mm
Achievable Output Fineness : 250 Microns to 0.2 Microns
Throughput Capacity: 5KG/HR to 3000 KG/HR

5 KG/HR



3000 KG/HR

Spiral Jet Mills provide leading-edge performance in jet pulverizing and fluid energy grinding. These advanced systems are capable of producing an average particle size of 3/1 to 15 microns. Because the jet pulverization process creates no internal temperature increase, our mills can easily handle heat-sensitive materials that cannot be safely processed in conventional grinders.

25 mm



0.2 μ m



shredder crushers

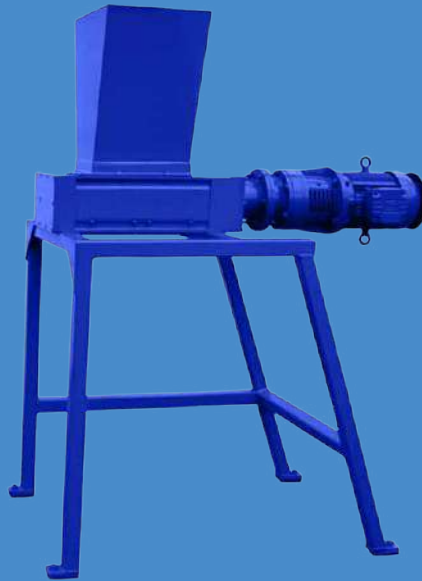


RAM350 shredder crusher lab

The RANTEK shredders are heavy-duty shredder designed to reduce a high volume of solids with its low speed, high torque design. This unit is built for the maximum level of performance and reliability using quality components and superior design.

Its powerful, direct gear drive reduces the shaft speed and delivers high torque to the cutters for excellent cutting capacity. The unit can rip, tear and shred through a variety of tough solids reducing the volume to strips or chips ideal for further processing or economical disposal.

RAM360 shredder std



RAM370 shredder crusher pro



chain mills

RAM3220 catalyst grinder

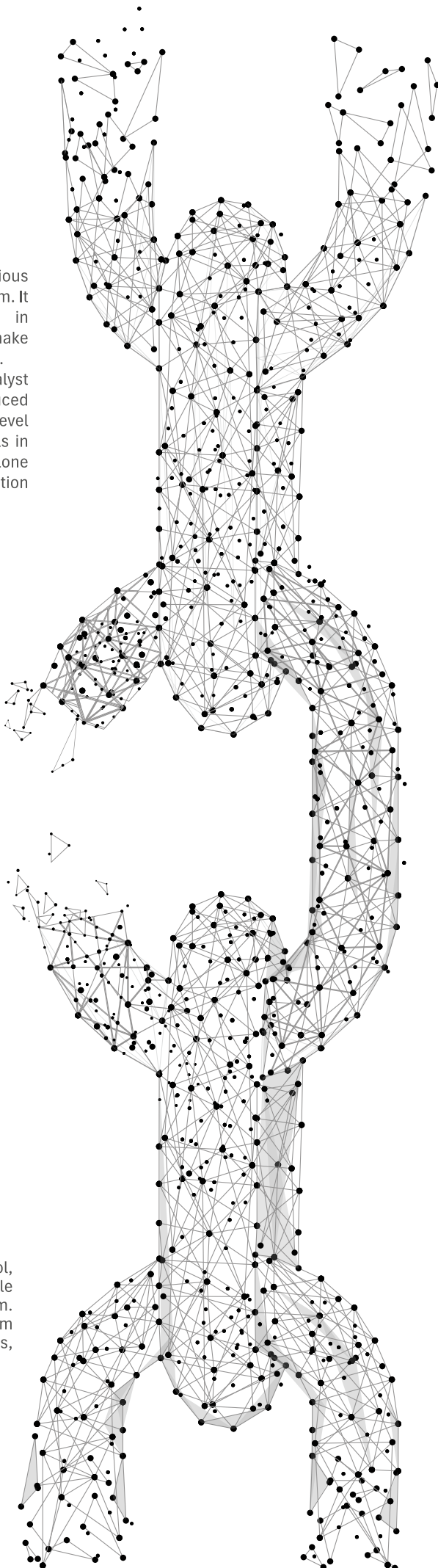
It is specially designed for RECYCLING precious metals such as rhodium, platinum, palladium. It has the capacity to be used easily in production-scale facilities, and we also make special production for larger-scale facilities. We also manufacture laboratory scale catalyst grinders. With the grinding elements produced from high alloy hardened steel, the micron level is reached in a short time. Precious metals in micron size, which are grinded by the cyclone system, are collected in a special collection chamber without any loss.



RAM3750 recycling chain mill COOLING JACKET SYSTEM MOTORIZED SAMPLE DISCHARGE SYSTEM

Thanks to the touch control unit, rpm, time, cooling water temperature control, sample discharge door opening adjustment mm. A round barrel with replaceable Hardox lining in which at the bottom a chain rotates at approximately 700 rpm. Numerous unique applications: Electronics scrap / WEEE, Refrigerators, Aluminum connections, Plastic - Metal connections, Rotations, Magnet fractions, Catalysts, Scrap fractions, Polyester fractions, Others..

Demand-driven offer: Working widths from 900 mm to 2,500 mm
Barrel Dia. 2000 mm
Barrel Height : 1800 mm
Power : 160 kW
Stirred Bowl Volume : Between 500 cc to 10000 ml
Material Feed Size : ≤ 5 mm
Output Granularity : $\leq 1\mu\text{m}$
Adjustable Rotate Speed : 50-1400 (rpm)



cutting mills

FUNCTIONAL DOOR LOCK MECHANISM
CARBIDE STEEL GRINDING ELEMENTS
SOLID ALUMINUM GRINDER BODY
GRINDING ROTOR ELEMENTS 304 QUALITY STAINLESS STEEL

Advantages

Double-action cutter bars with optimum cutting effect.
Easy and quick cleaning thanks to its attachable rotor, smooth surface and foldable funnel.
Determining the output size with 0.25-20 mm sieves
Wide range of accessories including screens, rotors, collection chambers and various feeding units
High safety standards thanks to safe stand, central locking system, engine brake

Application

Secondary fuel, Electronic waste, Wood, Spices, Non-ferrous metals, Leather, Bone, Electronic parts, Pharmaceutical products, Foil, Food, Granulated feed, Paper, Cardboard, Rubber, Lignite, Material mixtures, Planning materials, Plastic materials, Plastic toys, Polymer, Resins, Straw, Textile, Aluminum slag, Cable

Types of rotors : parallel section rotor / 6-disc rotor / V-rotor
Material of grinding tools : stainless steel, hardened steel for heavy-metal free grinding
Sieve sizes are SELECTABLE | Collector systems capacity : 4 lt
Hardened Heat Treatment Steel

RAM200
cutting mill



RAM210
cutting mill + cyclone



RAM210
cutting mill + vibro feeder





RAM250
+cyclone

RAM250



RAM160

CROSS

beater mills

Cross Beater Mills are intended for universal use: from sample preparation in laboratories up to preparing sample batches in pilot plants or production facilities.

Application Examples :

Cement, clinker, Glass, Coke, Coal, Ceramic Powder, Gravel, Gypsum, Slag, Ore, Granite, Minerals, Ceramics, Soil, Dried Foods, Solid Waste...

Grinder Rotor Inner Diameter:

Ø100 mm - Ø160 mm - Ø250 mm - Ø450 mm

Feeding material: medium-hard, brittle

RAM450



grinders



RAM300 mortar grinder

The Mortar Grinder can mix and homogenize powders, suspension and pastes even for samples with high viscosity.

Material feed size* < 8 mm

Final fineness* < 10 μ m

Batch size feed quantity : 10 - 190 ml

Chamber volume : 700 ml

Material of grinding tools : hardened steel, stainless steel, agate

RAM220 ultra centrifugal mill

soft to medium-hard as well as temperature-sensitive or fibrous materials.
Gentle high-speed pulverization due to pre- and fine grinding in one working run cassette system for maximum sample recovery and easy cleaning.
Selectable speed 18,000 and 23,000 rpm

Defined final fineness due to ring sieves with aperture sizes from 0.08 – 10 mm .

Collecting vessels for sample volumes from 250 ml to 4.5 l.

Automated vibratory feeder and various cyclone systems available.



RAM505 vibratory feeder



RAM800 bottle roller lab

A laboratory bottle roller, used for mixing and grinding.
The rollers can be adjusted to fit several sizes of bottles.
The rollers can be easily adjusted to meet the required bottle size.
From 5 seconds up to 99 days programmable.
From 29 to 280 RPM drive speed.



bottle roller

Rantek Pilot bottle rollers are used for ultra-fine grinding and mixing for laboratory and small batch production.
The bottle roller is equipped with a safety cage and closed down with a manual safety switch.

Distance Between Rollers : 6 inch (150 mm) from Center to Center

Min diameter bottle : 120mm

Max diameter bottle : 370mm

Speed Setting : 35 – 100 rpm

5 sec – 99 min, timer HOLD function.





RAM620 digi tablet press 30t

4.3" tft screen controller
Hydraulic system with hand operated and fully programmable system.
The pelletization process is controlled by the PLC program.
TFT, programmable system.
Max. pressure : 30 t.
Dies : $\varnothing$ 32 / $\varnothing$ 40 mm

RAM600 analog tablet press 20t

The RAM600 is a compact benchtop unit with particularly simple and safe operation.
The piston pressure can be read off from the clearly visible manometer scale.
Max. pressure : 20 t.
Dies : $\varnothing$ 32 / $\varnothing$ 40 mm



4.3" tft screen controller
It is suitable for producing pellet samples for XRF, IR, etc..
Auto-hydraulic system and fully programmable system.
Typical pressing cycle is less than two minutes.
Automatic pump shut-off safety valve.
Automatic pellet mold unloading system.
Perform the entire pressing cycle at the touch of a button.
Max. pressure : 40 t.
Dies : $\varnothing$ 32 / $\varnothing$ 40 mm

3D shaker mixers



RAM 460 3D shaker mixer

Container Capacity : 2 Lt
Container Material : AISI 316L S.S. - PU - PP
Adjustable Analog Speed (min-1)
with set of rubber clamping rings

The 3D SHAKER MIXER is used for the homogeneous mixing of powdery substances with differing specific weights and particle sizes. The product is mixed in its own closed container.

It is also possible to mix wet and dry components or different wet components. The production process is hygienic and dust-free, making the mixer easy to clean.

The mixing container is set into three-dimensional movement that exposes the product to always changing, rhythmically pulsing motion.

3D SHAKER MIXERS are used wherever minimum mixing times together with fulfillment of the highest homogeneity standards are required - in all industries, in research and development, and in production plants.

Applications : Bulk Bags, Clothing, Food Waste, Plastic, Cardboard, Construction Waste and much more ...



RAM 465 3D shaker mixer

Container Capacity : 10 Lt
Container Material : AISI 316L S.S. - PU - PP
Adjustable Analog Speed (min-1)
with set of rubber clamping rings





RAG205 r-tap sieve shaker

- with sound-enclosure cabinet
- Digital time setting
- Vertical stroke, circular sieving motion
- Suitable for wet and dry grinding
- Sieve loading up to 350 mm high
- Measuring range: 20 μm - 25 mm

RAG220 air jet sieving machine

The Air Jet Sieving machine is particularly suitable for sieve cuts of powdered materials which require efficient dispersion and desagglomeration.

Operation with airjet sieves, 203 mm (8") $\varnothing$ or 200 mm $\varnothing$ (with adapter),
Electronic adjustment of all process parameters (time, vacuum, speed),

Speed : Electronic

Measuring range : 14 μm - ~ 4mm

Max. batch / feed capacity : 0.3 - 100 g
with Air Jet Vacuum Aspirator Device



RAG240 high capacity screen shaker

- with sound-enclosure cabinet

- hydraulic clamping system

- Digital time setting

- frequency controller

The sieve shaker has a capacity of about 30 liters (1ft³) of sample.

Enabling from two to seven separations simultaneously.

Can separate up to 30 liters (1ft³) of aggregates (65 kg approx.).

To be use with 660x457x75 mm dimension screens.

The shaker has 6 screens and 1 pan capacity



RAM5250 vibro screen separator 2000

VIBRO SCREEN SEPERATOR is a high-precision, low noise, high efficiency, quick changer takes 3-5 minutes, totally enclosed structure, for grain, flour, mucus and other materials screening filter. Vibro screen is a motor for vertical excitation source, the motor and lower eccentric weight installed at both ends of the motor rotary motion into a horizontal, vertical, inclined three elementary motions, then the movement passed to the screen surface. Sieve dia. From 400 mm to 2000 mm with different capacities. Selectable materials as AISI 316L – 304 – Mild Steel. Feel free to contact for different capacities models



RAM5245 vibro screen separator 700



RAM4710 linear screen shaker

The new high-efficiency screening equipment has a screen moving trajectory that is approximately straight. Screen size: 30cm*75cm. Small volume and large screening capacity. Light weight, easy to install. Less energy consumption. Simple structure and beautiful appearance.



RAG195 electromagnetic shakers

Tripple motion sieving system

The shaker is fitted with a electronic timer which can be preset to any duration up to 99 minutes.

Sieve Capacity

15 pieces of 200 mm (8") sieves + pan and cover

10 pieces of 300 mm mm (12") sieves + pan and cover

RAG193 vacuum system for shakers



rotary divider



RAM525 mini rotary divider

The divider consists of a stationary hopper of 2.6 litres capacity with a vibratory feed chute feeding through a funnel onto a turntable driven at 52RPM carrying six sample collecting bins.

Extremely accurate
6 stainless steel sample collecting bins
Adjustable rotating speed 0 - 52rpm
Vibrating feeder unit mounted above bins
2.6 litre hopper.



RAM535 wet sample divider

New wet sample divider is applicable to labs for geological, metallurgical, building material, coal and other industries for ore slurry reduction and wet sampling for product tests.

Feeding density : 5-50%
Feeding granularity : ≤ 0.5 mm
Handling capacity : 2 L/min
Container capacity : ≤ 4 L/min



RAM540 rotary sample divider COMPACT

Stainless steel sample buckets 4*3 liters
Sample grain size that can work: 0-100 mm
Stainless steel, radial (triangular prism), 3 liters with 4 compartments
25 liters capacity stainless steel hopper
The adjustable rotating speed from 0 to 60 rpm,
The material feeding speed with the electromagnetic vibrating feeder.

RAM550 rotary sample divider XL

Stainless steel sample buckets 8*6 liters
Sample grain size that can work: 0-150 mm
Stainless steel, radial (triangular prism), 6 liters with 8 compartments, 48 liters capacity stainless steel hopper
The adjustable rotating speed from 0 to 60 rpm,
The material feeding speed with the electromagnetic vibrating feeder.



RAM575 stand alone RSD

The Stand Alone Rotating Sample Divider is designed to split out a representative portion of the sample.
It takes a single representative split of any proportion from 0– 50% from any size of sample, up to 25kg.
Duplicate split option available – 2 sample splits and remainder,
Feed rate: 0 – 15kg per minute
Feed size: less than 10mm recommended
Stainless steel hopper with 25kg capacity



RAM515 rotary sample divider GLASS

The speed-controlled dividing head rotates.
Material feed size ≤ 10 mm
Batch size / feed quantity ≤ 5000 ml
Rotary speed : 110 min⁻¹
Number of divisions : 6 / 8 / 10 | Time setting
Container volume : 100 ml / 250 ml / 500 ml
Vibrating feeder unit mounted above main frame.



RAM500 sample splitter

Designed for use in the field or in the lab.
The sample splitters are made of made of ; AISI316L S.S / AISI304 / Mild Steel
Slot width can be selected between 7 mm to 75 mm.
Supplied with 3 nos. sample containers.

RAM510 large sample splitter

Large Capacity Sample Splitter is used for splitting aggregate samples.
Slot widths are adjustable from 12,5 mm to 100 mm.
The splitter is equipped with 24 channels with a 20 lt. hopper capacity.
The Large Capacity Sample Splitter is supplied complete with;
Sample Collection Pan - 2 pcs.





RAC4900 split rotary tube furnace

motorized tiltable system
Tube Size : dia.60*450 mm
Max. Temperature : 1100°C
Continuous Working Temperature : 800°C
Rotary Speed : 0~15 rpm
50 segments programmable PID auto control
Temperature Accuracy : $\pm 1^\circ\text{C}$

RAC570 muffle furnaces

The Muffle Furnaces has powerful PID algorithm for precise temperature control.
Capacity : 1 – 2 - 5 - 7 - 9 - 12 – 16 Liters or customs made
Max Temperature : 1100°C - 1800°C
Accuracy : $\pm 2^\circ\text{C}$



RAC130C conveyor oven

The continuous movement of the conveyor ensures that each product is dried. The conveyor's movement speed and time can be adjusted from the control panel.
Conveyor Band Length : 1000 mm
Conveyor Band Width : 400 mm
Continuous Band Moves
HEATING SYSTEM with Air Fan Circulation
Microprocessor digital controller with dual display.
Max. Temperature 300 °C
Thermometer: Digital.

furnaces



Drying Ovens use the high temperature, humidity and often chemically active atmosphere created by the drying process. They are specially designed to withstand the corrosive environment that naturally occurs within them due to their composition.

Oven construction is stainless steel lining interior with fiberglass insulation; powder-coated exterior and heavy-duty stainless steel carts and racks.

Improved quality: stainless steel inner chamber minimizes sample contamination.

Each oven is factory-set to an operating temperature range of 105°C to 120°C, controlled by a thermocouple.

Capacity: from 1000 liters to 10000 liters

Door Type: Double Door or Single Door

RAM3860 fire assay

Fire assaying is used to separate metals for the determination of impurities and quantity in a sample. During this process the furnace will reach temperatures above 1000 degrees Celsius. The high temperature radiation and pernicious gas volatilization are extremely dangerous to the operators health.

We provide a full range of fire assay tools which can reduce manual work intensity, improve work efficiency, safety and avoid high temperature radiation. All fire assay tools can be tailored for clients' specific requirements.



flotation



RAM6150 lab flotation system

Flotation (Denver type).
Speed adjustment can be adjusted.
TFT Touch screen controller.
Stainless or acrylic flotation cells are 1 - 2 and 4 liters.
Reducer electric motor 380 V 1400 rpm.



RAM6180 lab flotation system

Capacity : 40-50 kg/h
Volume of each cell : 10 L
Cell dimensions : 200 × 200 mm ± 10% tolerance.
Cell material : acid and corrosive proof
Impeller speed : adjustable between 300-1500 rpm.



RAM6170 column flotation unit

Column Diameter: Ø300 mm
Column Height: 800 mm
Provided with;
Peristaltic pump.
Pressurized concentrate wash water system
Water reservoir with float valve
Pressure gauge
Bypass valve and spray nozzles.

RAM3845 laboratory hydrocyclone

Suitable for both for laboratory and pilot plant.
Centrifugal type pump : 5,5 hp, 2800 rpm.
Equipped with a 70 L capacity main tank.
1" or 2" sizes PU Hydrocyclones.





RAM3585 press filter system

Hydraulic operated.
Filter surface area : 4 m².
Plate size : 500x500 mm
Cake thickness : 30 mm.
Number of plates : 7 pieces.
Pressure : ≤0.6 Mpa.

RAM3710 vacuum filter apparatus

Dimension : Ø250×60 mm
Filter pan made of steel
2000 ml Erlenmeyer + vacuum hoses
100 pcs 40×40 cm white filter paper.
Under filter cloths.
Double-Stage Vacuum Pump 10.0 m³/h.



RAM3730 pressure filter device

Max. Pressure : 10 bar
Ø250×400 mm pressure chamber
Chamber material : AISI 316L S.S.
Frame Material : Heat Paint Steel.
Internal volume : 19,6 L

RAM3735S pressure filter device

Max. Pressure : 10 bar
Chamber diameter : 320±5 mm
Chamber height : 500±5 mm
Chamber material : AISI316L S.S.
Frame material : Heat Painted Steel
Chamber volume : 40 liters.





RAM6850 falcon separator

The Falcon concentrator bowl dia. : 100 mm
 Designed for laboratory test-work on small ore samples.
 Recommended Solids Capacity : 0-240 Kg/hour.
 Max. Slurry Capacity : 2.3 m³/h
 G-Force : 50 - 200
 Water Supply Pressure : 2 - 3 bar
 Recommended Maxfeed Particle Size : 1 mm
 Absolute Maxfeed Particle Size : 1.5 mm
 Max. Feed Percent Solids : %55 - %70

RAM6240 knelson concentrator

Solids Feeding Capacity: 0-240 Kg/hour.
 Maximum Volumetric Efficiency: 15 - 120 LPM
 Feed Density : Up to 75 (%)
 Feed To Size : max. 4.5 mm
 Feed To Size : Recommended 1.5 to 1.7 mm
 Matrix Cone Option : Polyethylene
 Target Recovery Particle Size : Pilot / Laboratory Type



RAM3315 disc pelletizer / granulator

Automatic Tilting Positioning
 Adjustable Rotation Speed
 Dimensions of disc : Ø800x350x10 mm
 Material of pelletization disc : AISI 316L S.S.
 AISI 316L stainless steel blades
 Electro-magnetic vibratory feeder
 5 L feeding hopper.



RAM3830 laboratory mineral jig, tripple

It is a device to enrich various minerals like carbon, coke, etc. in three compartments.

Equipped with three pistons, with cross sectional dimensions 200×275 mm, Drived by an eccentric crank shaft on three water basins and enrich the material through a screen deck.

The pulse rate infinitely variable from 0 to 300 rpm,

Provided with S.S. Sieves - sizes 1 mm, 2 mm, 3 mm, 4 mm, 5 mm.

Nominal capacity up to 150 kg/h.

RAM3820 laboratory mineral jig, tripple



RAM6750 screw conveyors & feeders

Screw diameter ranges from 50mm to 800mm

Available in MS & SS construction

Varying pitch for preventing preferential feed

Available for inclined applications

Rigid body structure with working height adjustment

Minimal clearance between rotor and stator



RAM6825 wilfley shaking table

It enriches ore by taking advantage of the difference in specific gravity between two ores.

Angle adjustable shaking table covered with polyester on steel sheet.

Shaking Table Dimension: 1200*600 mm

Oscillation infinitely adjustable from 0 to 400 rpm

Maximum Capacity 20 kg/hour

Water consumption (lt/min): 200 liters/hour.

Different capacities are available.







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