



UNIQUELine

Special Edition: 25 - Q1A

Dear Patrons,

As RAX Unique embarks on another year of innovation and growth, we're excited to share our vision, objectives, and initiatives that will propel our success. The past year was marked by challenges and opportunities that allowed us to explore new equipment and technologies, enhancing our manufacturing capabilities.



With renewed determination, we're poised to deliver high-quality products that meet and exceed customer expectations in the new financial year.

Thank you for your ongoing support and trust in Rax Unique.

Warm Regards, Ram

Rax Unique Products

- Vibratory Cup Mill
- Hammer Mill
- Ball Mills
- Hydraulic Press
- Jaw Crushers
- Micro BEE Pulverizer
- Roller Crusher
- Auto Desiccators
- Humidity Chamber
- Furnace and Ovens
- Riffler Sample Divider
- CON Quad Sample Divider
- Fume Hood Cabinet
- RAX-TAP Sieve Shaker
- Rax Spear
- Sound Enclosure for Sieve Shaker
- Bomb Calorimeter





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WHAT'S NEW

A. Smart VCM

Our latest Vibratory Cup Mill innovation, combining spacesaving design with cost-effective performance.

B. 3 Bowl Vibratory Cup Mill

Process three samples simultaneously in a single run, boosting laboratory productivity and efficiency.

C. Rax Spear Mechanical Sieve Shaker

Our compact, cost-efficient sieve shaker with reduced noise and accurate sample output, ideal for laboratory use.

D. 8mm Sample Divider

Achieve precise sample division with our 8mm divider, ensuring accurate representation and minimizing sample loss.

E. Con Quad Sample Divider at Hindalco

Successful installation and commissioning of our Con Quad Sample Divider at Hindalco Industries, dividing samples into four parts with precision.

F. New Referral at NVR Minerals

Rax Unique's Vibratory Cup Mill successfully supplied, installed, and commissioned at NVR Minerals Lab.





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<u>Vibratory Cup Mill – Three Bowl Model</u> Three Bowls – Three Samples – Single Run



Rax Unique State-of –the –art equipment – Three Bowl Vibratory Cup Mill offers same specifications as Single Bowl VCM but with added advantage of 3 Bowls which efficiently processes three different samples simultaneously enhancing productivity and reducing time.

- Multiple Sample Processing: Handles 3 bowls at a time with 3 samples.
- Increased efficiency: Saves time and boosts laboratory productivity.
- Precise Grinding: Delivers consistent results with high accuracy.
- Maximum Bowl Capacity: 150ml





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Smart Vibratory Cup Mill

Our Latest Innovation, the SMART Vibratory Cup Mill, combines cutting-edge technology with space saving design, offering better cost performance without compromising on quality.

Key Features:



- Compact design:
 Ideal for laboratories with limited space.
- Better cost# Performance Ratio:
 Optimised performance at a lower cost.
- Upgraded Door Mechanism:
 Enhanced safety and ease of use.
- Unmatched Performance:
 Consistent results and high productivity.
- Easy Accessibility of Components: Simple maintenance and components access





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Vibratory Cup Mill



- Clamping of Bowl: Manual, Positive in nature (Slippage of Bowl not Possible), 100% Safe.
- Variable Speed, 700-1440 rpm
- Safety Interlocking
- Maintenance Free Design
- Solid Base, No need for Foundation
- Feed Size: < 10mm. Output Size: Up to 120 μ.
- Grinding Time: 1-20 minutes depending on the materials.
- Unique design for faster grinding than the models available in the market.
- Display: Digital, to set Time range 0.5 –
 256 minutes.
- Manual "QUICK SNAP" Locking Mechanism. Easily detachable single bowl system.

Vibratory Cup Mill is improved in substantial reduction of noise level.

- Noise was arrested with 25mm acoustic pads.
- The panel fitting has been improved with folds to arrest noise.
- The bottom plates have been enhanced with additional 12mm sheets to dampen the vibration.
- Locking Mechanism upgraded with TUBE Rubber PADS.





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Vibratory Cup Mill – Bowl Set

Capacity: 80ml - 250ml



- Additional O-Ring for leak proof grinding.
- Heavier Bowl (almost double) compared to competition.
- Faster grinding since heavier Hammer & Ring.
- Finer since Heavy Impact & Friction at the Bowl bottom.

D2 Grade - Hardened Steel Bowl

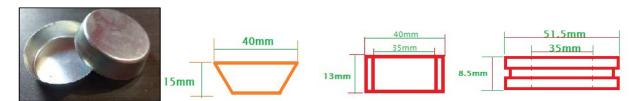
- 7mm Thick Tungsten Carbide,
- Sintered and ground Tungsten Carbide material.
- High performance.
- Heavy Duty Bowl with Handle.



Tungsten Carbide Bowl

RAX UNIQUE Special Aluminium Cups & XRF Sample Rings

RAX UNIQUE has designed the special Aluminium cups with the customer's requirement in mind. We also specialise in supplying STEEL ring for the XRF Pressed Pellets and automation purposes.



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RAX UNIQUE HYDRAULIC PRESS

RAX UNIQUE Hydraulic Press - DUAL DIE

- Hydraulic Press for High Throughput
- 25 Tons, 30 Tons and 40 Tons Configuration
- Easily exchangeable DIES
- Dust free System
- Easy Maintenance
- High Performance Cylinder
- Comes with Extended Warranty
- Special Pressure RECHARGER
- Working Speed: 03mm/sec
- Electrical Power: 3HP/3Phase



Hydraulic Press with Safety

- Sensors for extra Safety
- Activation once the Cylinder moves
- Pressure Sensing and Tripping



Hydraulic Press Pellet Breaker

- Simple, yet Rugged System
- Easy Installation & Occupies Less Space
- Can be attached in any existing Pelletiser
- Both 40mm & 51.5mm Pellet breaking





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Jaw Crusher



Crushing Lumps of Limestone, Iron ore, Laterite, Clinker.

- Easily movable JAW Fixtures
- Belt Guard, Emergency Stop Switch,
 OLR for motor protection, CE Electrical safety.
- Mounting: Systems will be provided with the Anti Vibration Pads, separate Concrete Mounting not required.
- Motor: 5HP / 3phase / 1440RPM

	Principal	Primary	Secondary
Feed Size	< 180mm	< 125mm	< 80mm
Output	25 – 40mm (Adj)	12 – 25mm (Adj)	2mm – 12mm (Adj)
Jaw MOC	Hardened Steel	Hardened Steel	Hardened Steel
Optional	Dust Collection unit	Dust Collection unit	Dust Collection unit
Accessories			

	Mini Jaw Crusher	
Feed Size	<40mm	
Output	2mm-10mm (Adj)	
Jaw MOC	High Carbon High Chrome	
	material / Manganese Steel /	
	Tungsten Carbide	
Optional Accessories	Dust Collection unit	

For Ferro Alloys & hard materials, we recommend TUNGSTEN CARBIDE Jaws

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HAMMER MILL

BEE Pulverizer

- Funnel Size: 1Kg/2Kg/5Kg sizes
- Input Feed Size: Fe Pellets of <15mm
- Output Size: <212microns
- Applications: Iron Ore, Fe Pellets, Dolomite, Si Mn, Sponge Iron, Cement Material.
- Motor: 3HP 3phase Motor
- RPM: 1440rpm
- Direct Drive Power Transmission
- Disc Size: 200mm Dia
- Disc Type: Specially designed CONE#SLANT arrangement with Hardened Steel/Tungsten Carbide material.
- Dust free construction
- Heavy construction and hence concrete base not required.





• Input Size: <12mm

Output Size: -212 μ

Application: Coal, Iron Ore, Clinker etc.,

Sample Capacity: 2-5kgs/hr

Motor: 3HP 3 phase Motor

RPM: 2800 & 4000 rpm

Belt driven

Overload Protection incorporated

Heavy construction







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D Supreme Plus Auto Desiccator



RAX UNIQUE





- Bench top Desiccator system
- Polycarbonate Walls and Trays
- Customised 6 Trays
- Trays can hold 40mm / 51.5mm
 XRF Pellets.
- Other sizes can also be supplied on order
- NEW Feature: Hygrometer
 Controller, for precise control of Humidity
- Optional TESTO Hygrometer with USB cable for ONLINE updates of H% &°C trends
- Temperature Indication
- Humidity Indication
- Auto Desiccation Process
- Operational convenience
- Easy PICK UP of Standards
- LED Illumination

Rax Unique have completed installation of more than 100 units of D Supreme^{Plus}
Auto Desiccator. Our Premium customers include ULTRATECH, SHREE CEMENT,
RAMCO CEMENTS, SAGAR CEMENTS, OWENS CORNING, RCCPL, CSIR, JK CEMENT,
BSIP etc.





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Harrier Plus **Desiccator**





- * Bench top Desiccator system. Polycarbonate Walls and Trays.
- ❖ Trays can hold 40mm / 51.5mm XRF Pellets. Other sizes can also be supplied on order.
- * Trays Tailor made with customer needs.
- **❖ NEW Feature:** Hygrometer Controller, for precise control of Humidity.
- Optional TESTO Hygrometer with USB cable for ONLINE updates of H% &°C trends
- Temperature Indication & Humidity Indication and Auto Desiccation Process.
- Desiccators have 100Lit capacity to hold more samples & heavier samples as well.

Particulars	UNIT	HARRIER
Internal Capacity	cm ³	610mm x 442mm x 372mm (100Litre)
Humidity Indication	Rh %	From 0% to 100%
Temperature Indication	°C	From Ambient Temp
Material construction Wall	Quality	Polycarbonate
Material construction Trays	Quality	Polycarbonate
Electrical Power Supply	V	12V DC Adaptor
Locks		Steel Locks





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RAX-TAP Sieve Shaker



The Industrial Standard Sieve Shaker RAX-TAP, is a Versatile and Rugged system for particle size analysis.

Horizontal Circular motion and a Vertical Tapping motion will segregate the material faster than the conventional type systems.

The system provides most accurate distribution analysis and consistent results.

Applications: Size analysis of Sand, Coal, Feldspar and other raw materials, also can be used in Agricultural Applications as well.

Rax-Tap Sieve Shaker can be used with both 8" and 12" Sieves.

Sound Enclosure



Sound Enclosure (Indigenous) for Sieve Shaker

- Dimension 790 x 570 x 700
- Noise Reduction: 45 dB
- ACCOUSTIC FOAM Installed
- Lockable Doors
- Rust Proof Guarantee





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Fume Hood

Fume hood is an enclosure that safely contains and ventilates hazardous fumes, vapors, gases and dust generated by chemical processes.



- Stay-On 2 Door System
- Additional Cupboards on the bottom frame of 3' Height
- Long Lasting Roof Top Anti-Corrosive Exhaust System
- Decipher Ceramic Table TOP
 25mm (For to avoid Acid spillage and corrosion)
- Decipher High Temperature
 SAFETY Canopy to withstand
 300°C.
- Anti-Corrosive FRP Coating
- Fume Hood can comfortably accommodate 4 Hot Plates.
- Sockets 4 Sockets
- LED Lamps for Illumination 2 pcs of 9 Watts Bulb
- RPM 2500
- DECIPER 2052 Table TOP Size 5' X 3' Height-8'
- SIZE H-8 ft X L-5 ft X B-3ft
- Weight 450 Kg
- Electrical Supply 3φ / 230 Volts / 50 Hz

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CON-QUAD Sample Divider



- Opening 20mm Dia
- Input Size 10-12mm
- No of Trays 4 + 1 additional tray for swapping
- Dimensions: 140mm (H) X 123mm (W) X
 123mm (B)
- Tray Capacity Appx. 2 L
- 2-5 kg Sample Hopper
- 2 Litre Sample Trays

Riffler Sample Divider



- Simple in construction, divides sample quantity equally in two parts, loading volume
 3-5 Litres
- MOC: Divider made for stainless steel
- 2 Receiving Pans
- Weight: ~5 kg
- Dimensions: 12" W x 14" D x 12"H
- RT 12.5 with Tinned sheet receivers 18 divisions 12.5 mm (1/2 inch) openings. Max. material feed size: >8 mm, receiver volume more than 2 litres.





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Family of Bomb Calorimeters

Rax Unique is an authorised dealer of IKA Bomb Calorimeter and its spares. We have successfully supplied and completed installation at various customer sites. Among them are SAGAR CEMENTS,

BHARATHI CEMENTS, RAMCO CEMENTS etc.,





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RAX UNIQUE TECHNOLOGIES HAVE INTRODUCED NEW YouTube Channel for videos of our Products & Performance upgradation.

https://youtu.be/_6pGJT8wSU0 - The BEE Micro Pulveriser - Challenging the Limits

https://youtube.com/shorts/BKPX5yFTiNU? - New "QUICK SNAP" Locking Mechanism

https://youtu.be/yFBJkd9D4LA - Sample Splitter, Rifflers

https://youtu.be/h2pIGJZF8mU - Hydraulic Press System

https://youtu.be/yQbts5asLnA - Harder Material Grindability Testing on VCM

https://youtu.be/ogw31eEdSrl - Manual Hydraulic Press for Ceramic & Glass Industries

https://youtu.be/noSYIScxYHw - RAX UNIQUE HARRIER DESICCATOR

https://youtu.be/Ok7lmui78M0 -MANUAL HYDRAULIC PRESS

https://youtu.be/tAa1ER3QLb8 -TABLE PRESS (KBR PRESS)

https://youtu.be/A z0UUIn8bg - The Art of Samples Preparation

https://youtu.be/gUtVncu6PRM?si - D Supreme Plus Auto Desiccator

Our Partial List of Customers

- 1. Shakambari VCM
- 2. JSW-Bhushan Steel 9 VCM / 3 Jaw Crusher/2 Hydraulic Press
- 3. BMM 1 VCM / 2 Jaw Crushers
- 4. ISMT-1 VCM / 1 Hydraulic Press/1 Jaw Crusher
- 5. Kirloskar Hiriyur Plant 1 VCM / 1 Hydraulic Press
- 6. Sree Metaliks (Raigoda & Barbil Plant) 2 VCM / 2 Hydraulic Press / 1 DISC Pulveriser/1 Jaw Crusher/1 Rax-TAP Sieve Shaker
- 7. Shyam Metaliks 1 DISC Pulveriser
- 8. Ultratech Aditya Birla 1 VCM / 1 Hydraulic Press
- 9. SGS 1 Hydraulic Press
- 10. BGR Mining 1 Hammer Mill /1 Oven/1 Humidity Chamber/2 Jaw Crusher/1 Roller Crusher/1 Furnace
- 11. IMMT 1 VCM / Riffler Sample Divider
- 12. Rain CII Carbon 1 Hydraulic Press
- 13. Mitra SK 2 Jaw Crushers / 1 VCM
- 14. Saint Gobain 1 VCM
- 15. Sagar Cement 7 Units (3 VCMs / 4 Hydraulic Press / 2 Jaw Crushers)
- 16. Keshav Cement 1 VCM/1 Hydraulic press/1 Jaw Crusher
- 17. My Home Cements 1 VCM / 1 Hydraulic Press
- 18. India Cements 1 VCM / 2 Hydraulic Press
- 19. India Cements, Chilamkur 1 VCM / 1 Hydraulic Press
- 20. JK Cement 1 VCM / 1 Ball Mill
- 21. Riddhi Siddhi Cement 1 VCM / 1 Hydraulic Press

RAX UNIQUE Technologies have Offices in Hyderabad, Jharsuguda & Chennai Please email me your comments at ram@raxunique.in

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- 22. Vasavadatta Cement 1 VCM
- 23. Maruthi Cements 1 VCM/1 Hydraulic Press
- 24. Ultratech Dalla 1 Fume Hood
- 25. CMTI 1 VCM/1 Hydraulic Press
- 26. Oil & Natural Gas Corporation 1 VCM
- 27. Ramco Cements RRDC 1 Hydraulic Press
- 28. Orient Cement 1 Vibratory Cup Mill
- 29. Rail Wheel Factory 1 Vibratory Cup Mill / 1 Hydraulic Press
- 30. NVR Minerals 1 Vibratory Cup Mill
- 31. Ramco Cements Vizag Grinding Unit 1 Hydraulic Press