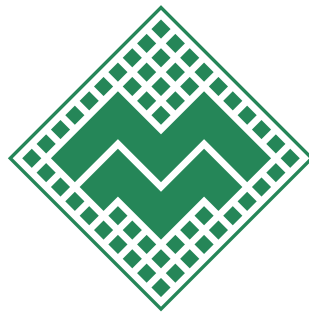
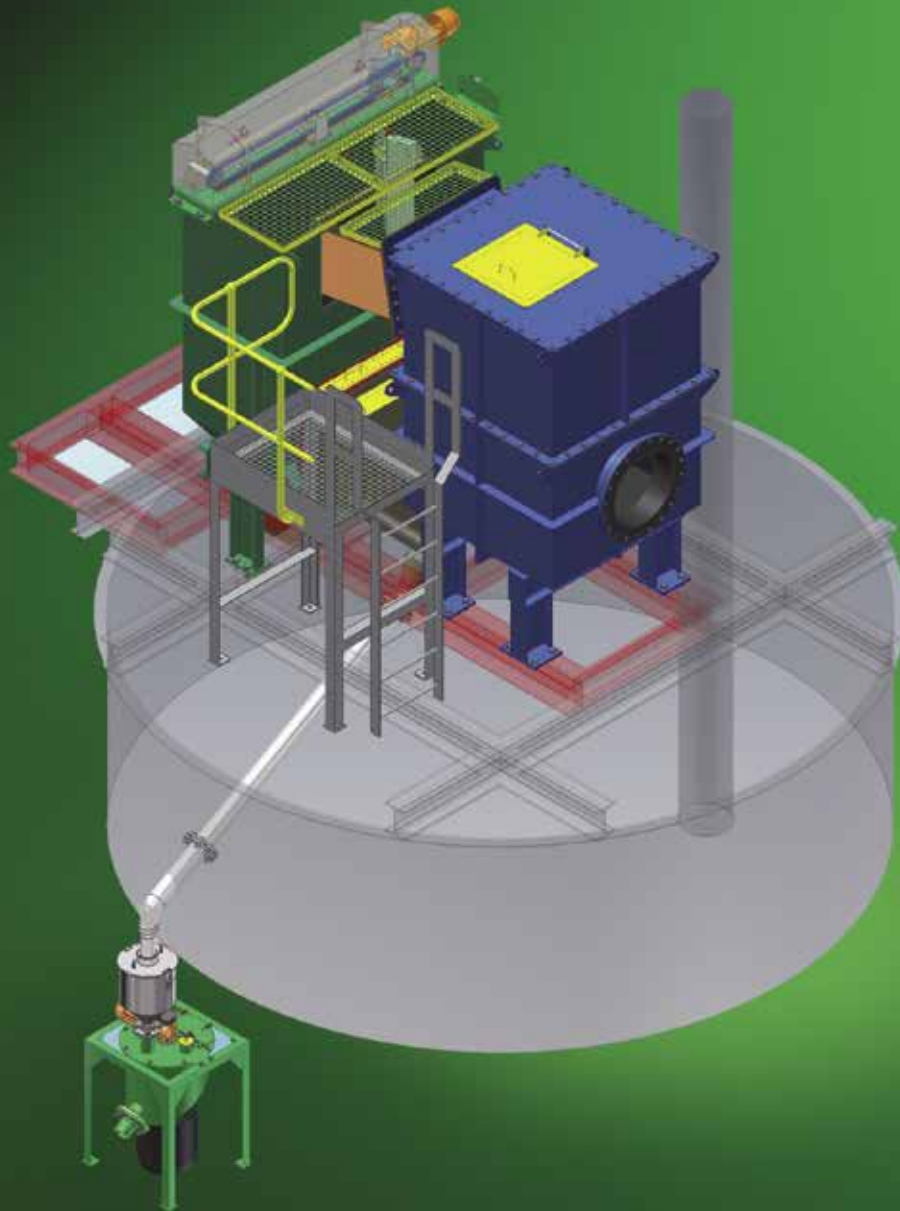




MULTOTEC

Wet Cross-cut Sampling Solutions



Your Specialist in Rubber Wear Linings



Wet Cross-cut Sampling Solutions

Multotec Process Equipment (Pty) Ltd has been manufacturing and supplying sampling equipment under license to Siebtechnik GmbH in Germany, since 1987.

Multotec is currently a leading provider in the design and supply of wet sampling installations to Africa and selected international markets. Our specialists have experience in all aspects of sampling and preparation over an extensive range of mineral applications. This enables the selection of the best and most cost-effective solutions to all sampling challenges, large and small.

Since 2005, Multotec has had a close association with the World Conference of Sampling and Blending (WCSB) and its leading consultants. This has further helped Multotec align itself with correct sampling methods and design in an endeavour to provide best sampling practice.

Specifications

- Primary cross-cut and secondary vezin units with replicate samples
- Unique Two-in-One integrated samplers for vertical gravity feed pipe columns
- Launder (open conduit) cross-cut samplers also available
- Mild steel/rubber-lined, stainless steel, ceramic-lined or other materials of construction are possible
- Custom-built sample receiving hoppers with air agitation and sample cabinets supplied
- Water flushing systems complete with nozzles, hoses, solenoids and automated electrical controls are optional
- Filter presses for sample drying and storage
- Designs handling up to 6 000 m³/hr of slurry throughput and higher
- Suitable for up to 900 NB pipe columns or larger

Various ISO, AS and other internationally recognised sampling standards stipulate that:

- Sampling cuts are evenly distributed over the material consignment or throughput period to be sampled or random stratified frequency
- Prescribed sample increment masses and numbers shall be collected per batch size
- There is to be a minimum of disturbance to the material stream when taking the necessary full cross-cut
- Sampling equipment and plants are to be designed to avoid contamination of final sample

Applications

Gold

- Leach feed
- Leach tails/final tailings

Platinum/Base Metals

- Mill circuit
- Flotation rougher feed
- Flotation rougher tails
- Cleaner tails
- Scavenger tails

Heavy Mineral Sands

- Various

Iron

- Fines circuit

Electrical Controls

All electrical control specifications vary between plants, their processes and the type of projects.

- PLC and/or relay/timer controls available and housed in floor or wall mounted control boxes or a motor control centre (MCC) building
- For control of wash water systems
- Central plant SCADA and PLC interfacing and communication capability
- Enclosures available in all IP and NEMA ratings for splash, water and dust proofing

And many other specialised applications



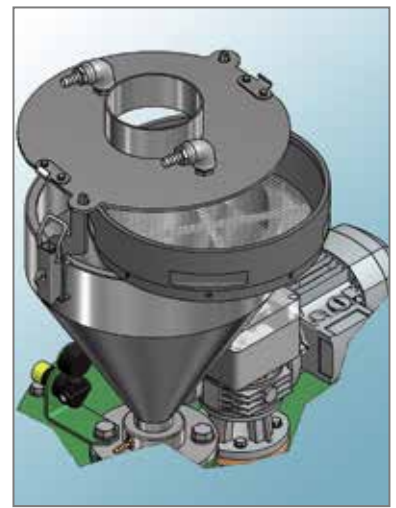
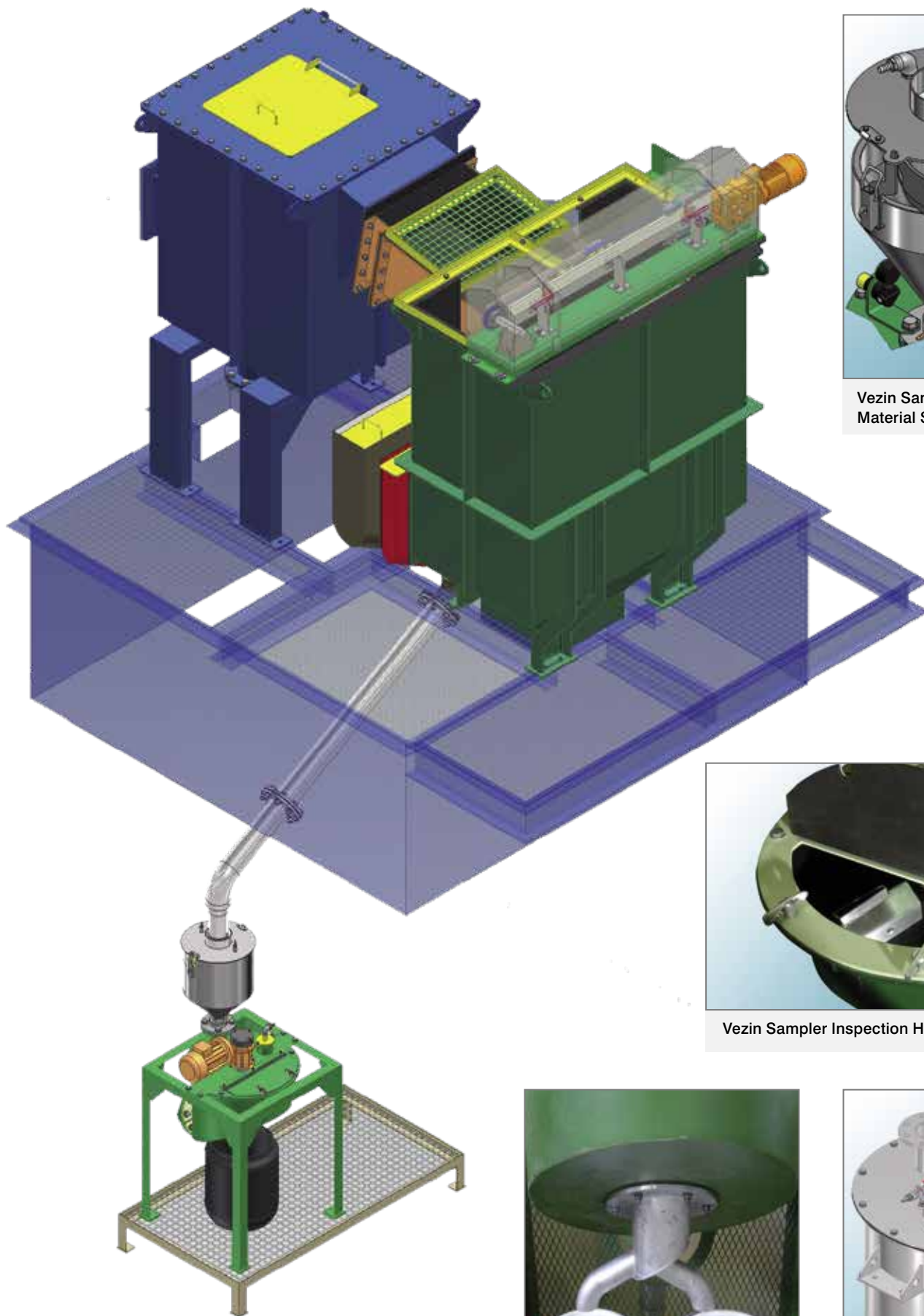
Vezin Sampler Radially Tapered Cutter



Filter Press



Vezin Sampler with Stainless Steel Surge Hopper



Vezin Sampler with Tramp Material Screen



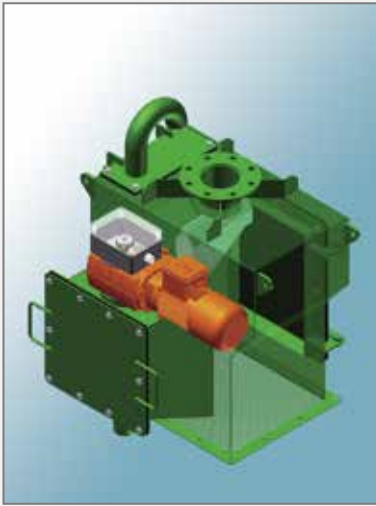
Vezin Sampler Inspection Hatch



Vezin Replicate Sampling



Stainless Steel Vezin Sampler



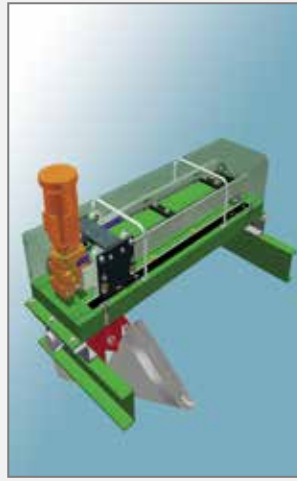
Primary Slurry Sampler Advantages:

- Design conforms to internationally recognised sampling standards
- Unbiased sampling due to:
 - full stream cut
 - radially tapered cutter slot
 - constant cutter speed < 0.45 m/s
- Dedicated combined electrical control panel with adjustable timer
- Tank mount units



Vezin Sampler Advantages:

- Reliable primary sample division with multiple cuts possible (up to 30)
- Every particle has an equal chance of being sampled
- High sample division ratio possible
- 10 to 40 mm cutter widths available
- 1 to 4 stainless cutters possible
- Cutter hoods are easily replaceable



Cross-stream Cutter Advantages:

- Rugged and adaptable construction
- Designed for horizontal or inclined slurry stream applications
- Takes representative cross cuts of slurry streams
- Suitable for light- and heavy-duty applications
- Sharp parallel blades of 10 mm to 40 mm minimum
- Light PVC covers available for easy maintenance access
- Single or double rail construction



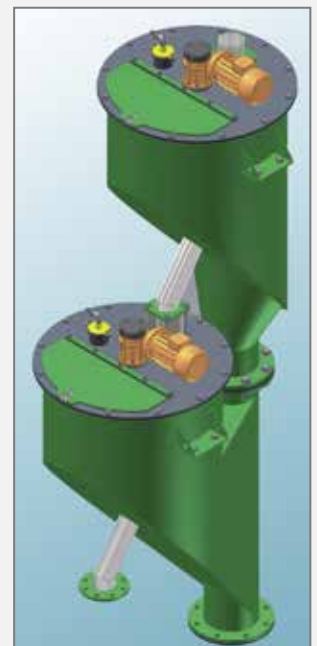
Two-in-One Sampler Advantages:

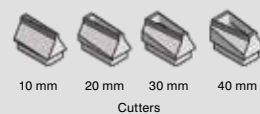
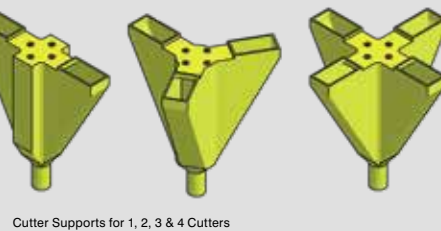
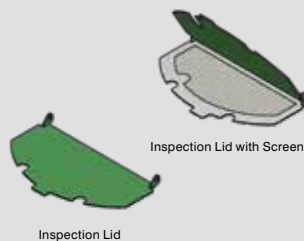
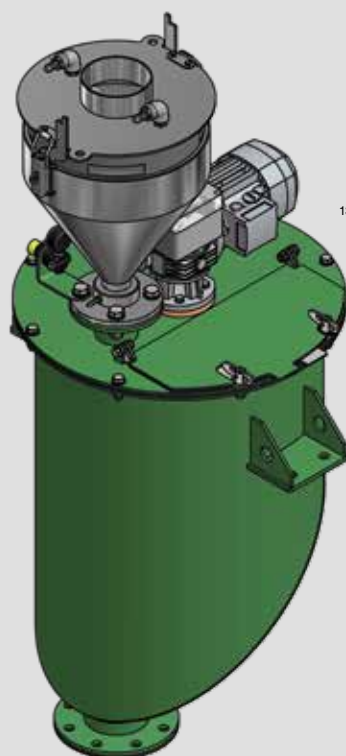
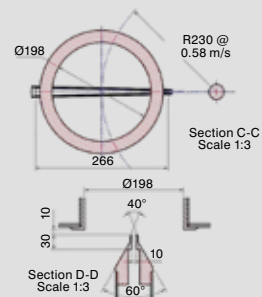
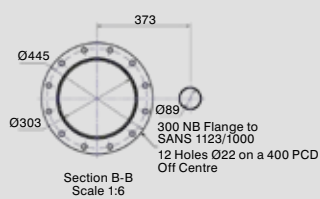
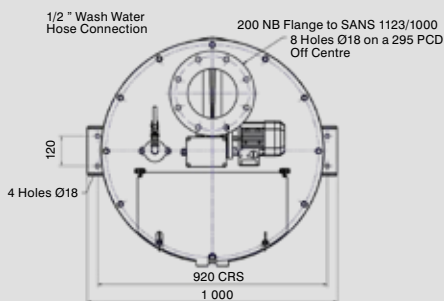
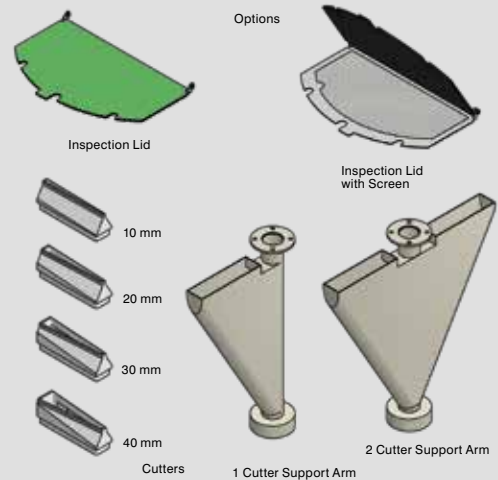
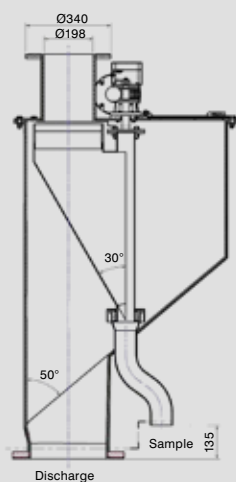
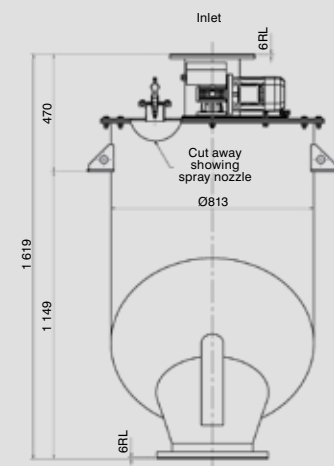
- For vertical downflow systems only
- Integrated primary and secondary sampler
- High sampling frequency possible
- No separate reject stream
- Compact and robust housing
- Easy to install to pipe columns
- Easy access
- Self-supporting on pipe flanges
- Rubber or epoxy lined
- Surge hopper with aeration and trash screen optional
- Wash water system to prevent material build up

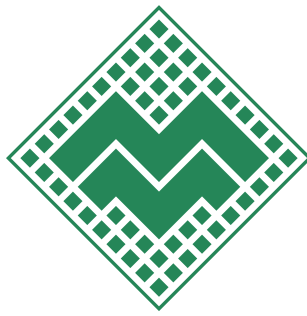


Vezin-to-Vezin Sampler Advantages:

- Representative two-stage sampling discharge
- From 150 mm discharge
- 1 to 4 cutters possible
- Cutter speeds of 0.45 m/s
- Replicate samples possible
- 10% division ratio commonly used







MULTOTEC

Australia – Brisbane

Tel: +61 (7) 3442 0100
Fax: +61 (7) 3200 7733
Email: sales@multotec.com.au

Australia – Perth

Tel: +61 (8) 9406 3500
Fax: +61 (8) 9302 1732
Email: sales@multotec.com.au

Canada – Edmonton

Tel: +1 (780) 433 8825
Fax: +1 (780) 433 8836
Email: canada@multotec.com

Canada – Montréal

Tel: +1 (450) 651 5858 (ext. 203)
Fax: +1 (450) 651 0002
Email: canadam@multotec.com

Chile

Tel: +56 (2) 745 3317/3302
Fax: +56 (2) 745 3432
Email: chile@multotec.com

Botswana

Tel: +267 297 4524/4525
Email: botswana@multotec.com

Ghana

Tel: +233 302 517 821
Email: multotec@multotec.wa.com

Mozambique

Tel: +258 25 240057
Cell: +258 84 064 9544
Email: mozambique@multotec.com
moz@multotec.com

South Africa

Tel: +27 (0) 11 923 6000
Fax: +27 (0) 11 394 8701/5099
Email: marketing@multotec.com

Zambia

Tel: +260 212 313 354
Fax: +260 212 312 422
Email: multotec@multotec.co.zm

www.multotec.com

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Sampling Solutions	Wear Lining Solutions	Mill and Scrubber Linings
Solid / Liquid Separation Solutions	Conveyor System Solutions	
Pumps	Process Water Treatment and Metals Recovery	



Multotec products are subject to continuous development and Multotec reserves the right to make changes to the specifications and design of its products without prior notification.