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ROCKLABS ROBOPREP - ELITE AUTOMATION SYSTEM

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The Rocklabs Roboprep Elite Automation System provides an efficient and productive process for continuous preparation of high quality samples for analysis. Featuring RFID tracking of all samples to ensure data integrity the Roboprep system is a fully enclosed cell for high capacity crushing and milling. This system uses automation to maintain accuracy and maximise uptime and uses the Rocklabs Gryst Mill for world leading performance and processing time. The Gryst Mill handles 3kg samples with grinding performance in excess of 90% passing 75µm.

The Rocklabs Roboprep System is designed to accept Drill Core, Reverse Circulation and Blast Hole samples, providing enhanced capability and flexibility for both commercial and minesite laboratories. The system layout typically features three separate robot cells, performing crushing of samples up to 10kg, followed by splitting, pulverising and dosing for fire assay.

Samples are loaded into bins, before being picked up by the first robot. Inside the crush cell, there is one Big Boyd Crusher and 3 Boyd Elite Crusher modules, bypass feeders & Linear Sample Dividers (LSD). Samples pass through these to the pulverise cell of 6 Automated Batch Mills, with integrated sand washing, before being split into Pulp Aliquot, Replicate, and Archive splits and loaded into Cassettes for changeover & further analysis.

Key Features

- Qualiy samples without contamination
- End to end automation
- Labour optimisation
- Low maintenance, Ergonomic, Safe Operation
- Configurable and expandable allowing for future customisation
- Boyd Elite crushing to 2mm and Big Boyd crushing for full core sample sizes
- Maximum sample recovery with minimal dust generation
- Integrated flush washing and water cooling
- Linear Sample Dividers for representative proportional splitting
- Outfeed vials with 30g or 50g dosing for fire assay
- Weighing of all sample and waste splits for complete process mass balance
- Pulp Aliquot, Replicate, and Archive splits loaded in RFID Vial Cassettes for transport and storage

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