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Season's greetings from ROCKLABS World Leaders in the manufacture of Sample Preparation Equipment, Automated Systems and Certified Reference Materials.

2011 has been a fantastic year for Rocklabs and we would like to extend our sincere thanks to all our new and existing clients around the world for their continued support. We would also like to thank our agents around the globe who have worked tirelessly over the last year to help Rocklabs achieve record sales levels and expand into new and exciting markets.

The focus of the latest newsletter is on our new products that have been released throughout 2011. It was decided during 2010 that there were some gaps in our product range and every effort was made to rectify this through 2011.

#### RM2000 Pulveriser

The RM2000 pulveriser is a manually operated discus mill that is designed to process samples up to 1500g in weight. As is the case with all Rocklabs equipment it is strong and robust; built to withstand the daily punishment handed out in the sample preparation environment.

\*See Page 2 for further details.

#### Smart Boyd LSD Combo

For any years the Rocklabs Linear Sample Divider has only been available when purchasing a Rocklabs automated system but due to strong customer demand it has now been released in standard form. The LSD allows the operator to select the weight of the samples they want split after crushing that adds a degree of flexibility that has not been available in crusher splitter combo's in the past

\*See Page 2 for further details.

#### ABM 3000 - Auto Batch Mill

The ABM3000 is designed to give a degree of automation without the price tag of a fully automated system. The operator can load and programme up to 30 samples at a time and then walk away whilst the ABM3000 does all the work. This not only allows the operator to multitask but also drastically reduces the amount of manual handling traditionally required in sample preparation.

\*See Page 3 for further details.

Once again Rocklabs would like to thank you for your continued loyalty and support and we look forward to working with you all in 2012 and beyond.

Cheers,

Brad Hunting  
Head of Mining

#### **Up Coming Conferences 2011- 2012**

**23-26 Jan - Mineral Exploration Roundup 2012 - Vancouver, Canada**

**19-22 Feb - SME 2012 (booth#2457) - Seattle, USA**

**4-7 Mar - PDAC 2012 - Toronto, Canada**

World Leaders in Sample Preparation Equipment,  
Automated Systems and Certified Reference Materials

## RM2000 Pulveriser



The main features:

- Maximum sample of 1500g
- Output particle size -75microns
- Pneumatic lifting assistance for removing the Head
- Full safety interlocking system
- Operates at below 80db
- Carbon or Chrome Steel Heads available

The process:

The ROCKLABS RM2000 is designed to process large samples up to 1500g with a final particle size of -75microns. Powder coated metal cabinet.

The RM2000 has a pneumatically operated lifting arm for lifting and lowering the Head during loading and unloading of each sample.

## Smart Boyd-LSD Combo

The main features:

- Jaws hold 5kg of sample as one load
- Jaws can be rotated top to bottom for longer life
- Quick jaw adjustment with horizontal steel rollers
- Safety switch stops operation on cover opening
- Automatic split adjustment from sample weight
- Touch screen operation
- Latest Linear Sample Dividing (LSD) Technology

The process.

The Smart Boyd Crusher LSD Combo has the latest sample dividing/splitting technology. The LSD works in a linear motion which cuts the falling sample stream to obtain representative sample(s).

The desired sample split (weight) can be input via the LCD touch screen panel, it is then communicated to the PLC. The PLC will control the LSD to give accurate weighted splits.



## ABM3000 - Auto Batch Mill



### ROCKLABS AUTO BATCH MILL

- 30 Sample Cups for consecutive pulverising
- Maximum sample weight 1000g
- Output particle size -75microns
- Sand wash between each sample
- Automated compressed air cleaning cycle after each sand wash

The ROCKLABS Automated Batch Mill is designed to consecutively process 30 samples with a maximum sample weight of 1000g and a final particle size of -75microns.

The automated cleaning cycle includes a sand wash between each sample followed by a compressed air cleaning cycle.

## Reference Materials

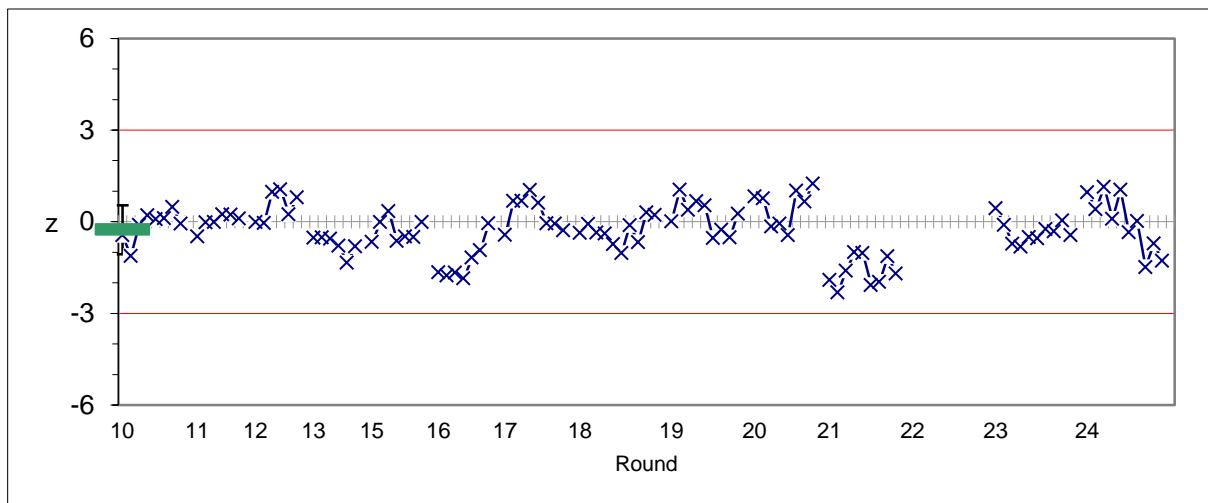
### Question: How Do Rocklabs Assign Values To Their Reference Materials?

**Answer:** We assign values to Reference Materials on the basis of consensus testing. This is not the only way to assign values (and some would argue that it is not necessarily the best way) but it is certainly the most widely accepted procedure in the gold mining and exploration industries. The principal of consensus testing is that a large number of good quality laboratories provide results that are examined by a statistician who calculates the value that best represents the consensus of the participants. In examining the results the statistician eliminates any values that are out of consensus with the majority of the laboratories. The results that are eliminated may be outliers as determined by Cochran and Grubbs' tests or may be from an individual laboratory that is providing results that are consistently lower or higher or more variable than the consensus of all other laboratories. Generally our consensus samples are sent out in "Rounds" that include samples from eight or more candidate Reference Materials.



The consensus tests are carried out as a type of Proficiency Test and the results from each laboratory are compared with the consensus of all results. Generally, in a Proficiency Test where the purpose is only to assess laboratory performances, each laboratory is asked to treat the samples as if they were routine and not to give them any special treatment. In our Proficiency Tests the main aim is to obtain the most accurate result possible on the candidate Reference Materials. We therefore provide the range within which we expect the gold concentration of each sample to fall and the nature of the matrix. We also request the laboratory to take special care (e.g. multiple analyses, double reading, fresh instrument calibration standards etc...) in order to achieve higher accuracy than normal. It is still a Proficiency Test that can be used to assess individual laboratory performance but in circumstances where the analyses are carried out under optimum conditions.

**Graph Showing History of Good Performance in Proficiency Tests**



**Graph Showing History of Poor Performance in Proficiency Tests**

