

Robotic and Automated Laboratory Solutions



Intertek Genalysis' advanced minerals laboratory robotic and automated systems are customised and designed to meet specific laboratory requirements.

Intertek Minerals robotic sample systems range from individual cells to fully integrated systems, providing complete end-to-end sampling to analysis solutions. The use of cutting edge robotics sample handling technology for minerals testing has distinct advantages, including rapid sample throughput, unparalleled consistency, exclusion of human error, a comprehensive audit trail, synchronised process control, reliability and fully programmable comminution parameters. Programmable parameters such as milling speed and time ensure that ores obtain the requisite treatment consistently. These variables allow for customisation of the preparation parameters such as the grind characteristics. For example, it is important that goethitic iron ores are not over milled as crystalline (inherent) moisture can be lost.



Robotic systems are key in reducing OH&S exposure of employees, for example virtually eliminating heavy lifting and isolating personnel from hazardous materials.

Robotics and Automated Minerals Laboratory solutions include:

- Sampling Systems
- Semi-Automated Sample Preparation
- Automated Robotic Sample Preparation
- Mechanised Analytical Systems
- Robotic Analytical Systems
- Integrated Instrumentation



Robotic Preparation Packages

To facilitate easy selection of robotic preparation procedures, commonly used techniques have been packaged together.

Robotic Package (including single quartz wash)

Description	Element
Dry, robotic preparation 300g up to 1.2kg	SP21
Dry, crush ~2mm, robotic preparation 300g up to 1.2kg	SP22
Dry, crush up to 3kg ~2mm, split, robotic preparation 1.2kg	SP23
Additional wt >3kg: dry, crush ~2mm, split, robotic preparation	SP24



Robotic Fe Ore Package (excluding quartz wash)

Description	Element
Dry, robotic preparation 300g up to 1.2kg	SP31
Dry, crush ~2mm, robotic preparation 300g up to 1.2kg	SP32
Dry, crush up to 3kg ~2mm, split, robotic preparation 1.2kg	SP33
Additional wt >3kg: dry, crush ~2mm, split, robotic preparation	SP34

** Average job weights are used unless individual sample weights are requested*

Please contact for further information or to request the implementation of robotic solutions at your operation.

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