



**MIRS**, leader in robotic applications for mining and heavy industry, has applications for a wide range of production processes, with solutions aimed at improving productivity and reducing costs.

**MIRS** products incorporate state-of-the-art robotics for more efficient and safer operations.



**Reduces Production Costs**



**Increases Process Reliability**



**Ensures Operational Health and Safety**



**Improves Final Product Quality**

## ROBOTIC APPLICATIONS

- Robotic Haul Truck Washing Station
- Robotic Collector of Concentrate Samples from Trucks
- Robotic Collector of Concentrate Samples from Maxibags
- Robotic Cathode Stripping Machine
- Starter Sheet Robotic Stripping Machine
- Robotic base plate buffing
- Robotic Furnace Passage Tapping and Plugging
- Robotic Mill Liner Change (Internal, External and Trommel)
- Scheduled Maintenance Service, Technical Assistance, Training and Supplies

**ROBOTIC SYSTEMS**

**ENGINEERING**

**SERVICE & PARTS**



Set of robotic applications designed and developed by **MIRS** to automatically or remotely perform scheduled maintenance work in SAG mills, reducing human interaction to the maximum and reducing the time normally considered in the maintenance process.

### ROBOTIC SOLUTIONS

- Robot for removal and retorquing of nuts and bolts in SAG mills.
- Robotic manipulator for mill liners.
- Trommel pallet robotic manipulator.
- Ball loading.

These solutions are made up of high quality and world class robots, making it a more accurate, safe and profitable operation system.

### BENEFITS

- Millimeter precision and force capacity.
- Interaction and communication between different robotic applications.
- Robotize maintenance process in a safer way and in less time.
- Optimizes process reducing time and resources and resources involved.

**MILLIMETRIC PRECISION, OPTIMIZES THE PROCESS AND REDUCES TIMES**

