

**PROJECT: Robotic Grinding Cell**

Automated material handling and grinding operation for three different part types. A six-axis floor mounted robot transfers parts from an inbound carrier to the grinding station. The robot performs a dedicated grinding profile on each part with compliance in the end-effect and grinding belt to account for part-to-part tolerances. Completed parts are loaded to an outbound carrier. Operator interface panel allows for easy selection of multiple standard part setup recipes and quantities.

FEATURES:

- Flexible robotic handling and grinding operations
- Easy operator batch load and upload of parts
- Average part-to-part cycle time of 20 seconds
- Simple part selection and recipe storage
- Automatic machine stop upon lot completion

BENEFITS:

- Fully-automated grinding process
- Improved part consistency
- Eliminated unsafe handling of parts during grinding
- Increased production throughput

