

Air Design Trimming Project



Date: August 2015



The Brief:

To design and commission a KR210 based robot cell with spindle and load/unload turntable for trimming plastic parts.

This included the following activities:

- To mount the spindle and dress the spindle control cables.
- To design a control panel for cell control and safety circuits).
- To design and install a cell control panel for the KR210 robot, turntable, spindle and safeties.
- To supervise the building of the electrical control panel by Air Design personnel in Mexico.
- To program in the robot SPS the software control for the complete cell operation.
- To commission the robot, turntable, spindle and control panel.
- To provide programming training for the new cell.

The Cell Consists of:

- KR210 Robot.
- KRC2 Edition 5 Controller with KSS 5.4.14.
- Beckhoff IO Modules on DeviceNet.
- Sixteen Digital Inputs.
- Sixteen Digital Outputs.
- One Analogue Output.
- Cell Control Panel
- Robot and Cell Control Panel Commissioning
- Robot programming training.