

RMA Plate Grinding Project



Date: November 2014



The Brief:

To design and commission a recently client purchased KR210 robot and spindle to clamp various lengths of steel plate as selected by the operating during loading and grind a 45 degree chamfer onto the exposed edge.

This includes the following activities:

- To design and commission the electrical and software part of the grinding cell for which the mechanical design and electrical build were carried out by RMA Co Ltd in house.

- Robot programming and commissioning of the cell which was undertaken during six days.

The Cell Consists of:

- KR210 Robot
- KRC2 Upgraded Controller with Windows XP and KSS 5.4.14
- Client supplied Spindle
- Alivar 312 Inverter
- Spindle Cabling via robot internal energy supply and Hummel connectors
- Inverter mounted on the controller door
- Beckhoff IO Modules on DeviceNet
- Sixteen Inputs
- Sixteen Outputs
- Robot Mechanical Installation (Carried out by RMA Co Ltd)
- Robot Electrical Installation (Carried out by RMA Co Ltd)
- Robot Commissioning and Robot Programs

Pricing for Equivalent Cell in UK: £60,649

