

Robbi Omicron T7 PLC Grinding Machines

Ideal for small batch production and individual components, the New Robbi Omicron T7 PLC features the latest version of the company's control system with touch screen interpretation allowing for ease of programming for operations such as wheelhead and table positioning, multiple diameters in the same cycle; semi-automatic grinding cycles, with auto stop of the wheel feed once the programmed diameter has been reached; automatic wheel dressing cycle with compensation of grinding dimensions, plus Increases the accuracy and speed up the grinding process due to:

- High positioning accuracy with the possibility to apply on request linear encoders on one or both axis.
- The Robbi Omicron T7 PLC is built around the SIEMENS operating system, and provides a CNC machine experience, controlled via the T7 PLC control. This provides the same performance available on the CNC plus the great versatility of the T versions, thanks to the:
- New software developed on the last SIEMENS CNC 840 D SL
- TP 700 comfort panel.
- The smart interface fully developed by ROBBI gives the possibility to program even multiple and complex components without the needs of CNC programming skills.
- The auto teach of the first diameter and all the table positions permits a quick pre-set of the component reducing the programming time.
- The auto compensation of the dressing wear permits to maintain sharp and stable the grinding wheel along the process.
- Axis interpolation gives to the new version the great possibility to compensate the taper errors by a digital correction.
- Pass and plunge grinding cycles available for OD and ID grinding.
- Incorporation of shoulder grinding in automatic or in manual mode with electronic handwheel
- Wheelhead and table position visualised on operator panel
- Possibility to program up to 12 different diameters, on the same grinding cycle
- Possibility to update the operator panel, with the correction of each diameter
- Automatic grinding wheel dressing cycle with compensation of all the grinding dimensions
- Up to 30 program storage capacity

Offering capacities on Universal & Plain grinding models from 315mm dia to 995mm dia over the bed and 600mm to 6000mm between centres. The T7 PLC control, is also available on the IGR Omicron series of Internal Grinding Machines.

