

CASE STUDY

Machine **Cincinnati Universal Grinder**

Customer **Aerospace Manufacturer**

Your machine may be mechanically sound, but has defective or outdated controls. You can reduce downtime and improve performance with a CNC retrofit. An economical alternative to buying a new machine. This involves replacing the CNC control, servo and spindle motors, drives, electrical components, and wiring. Contact us for information on Siemens, Fanuc and Heidenhain replacement controllers.



Original Machine Condition

The machine was being held in storage and was originally planned for disposal due to:

- The machine was inaccurate and needed bringing back to OEM machining tolerances
- The electrical systems were not up to current standards
- The machine guarding was not in accordance with PUWER regulations
- Worn mechanics



Refurbishment Specification

MTT undertook a complete refurbishment of this machine which included the following:

- Regrinding of slideways and spindle refurbishment
- Machine stripped, degreased and repainted in full gloss acrylic paint
- Machine guarding brought up to current standards
- Hydraulic unit, coolant system and slide-way lubrication system all refurbished
- Electrical system completely redesigned to bring it up to current standards
- D.C. workhead motor with rheostat control replaced with 2Kw Servo drive and control with variable speed control and speed limitation for manual set up when guards open
- Electrical Diagrams designed and produced on current software package with full cross reference and parts list

MTT can modernise your CNC machine tools by rebuilding, remanufacturing or retrofitting your machines at your facility. We can also transport machines to MTT's modernisation facility to minimise disruption to your manufacturing environment.

By choosing one of our four key services you could extend the life of your machine

Retrofit Rebuild Remanufacture Design & Build



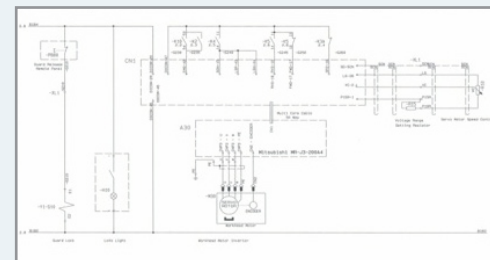
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Rebuild

Before Retrofit



After Retrofit



To talk with one of our engineers or book a machine assessment

Contact us now on
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or email
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