

## CASE STUDY

# Machine 2 x Forest Liné 5 Axis Gantry Machines

Customer **Formula 1 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Your machine may be mechanically sound, but has defective or outdated controls.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

- Reliability problems due to old technologies and obsolete control systems
- Expensive to support and lengthy repair times due to obsolete NC and Drive systems
- Slow and inaccurate machine performance
- Operator station untidy with broken and missing parts
- Camera system unusable and unserviceable



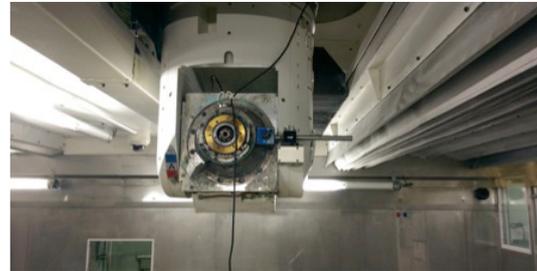
### Refurbishment Specification

- Full retrofit of electrical system including Siemens 840D Solution Line Safety Integrated CNC and Sinamics Drives in new Rittal Cabinet
- Replacement of all measuring systems with state of the art EnDat02 absolute encoders and linear scales which reduce machine start up times
- Replacement of all power and feedback cables
- Retrofitting of remote I/O
- Integration of machine auxiliaries such as Hydraulic and chiller packs with the new system.
- New Rittal operator control station with 19" Siemens HMI incorporating PCU50, machine control panel, Qwerty keyboard and HT2 hand control pendant
- 2 PTZ Camera monitoring system

MTT can modify your CNC machine at your facility. We can also transport machines to MTT's modernisation facility to minimise disruption to your manufacturing environment.

## Retrofit

### Measuring systems replaced



### New operator control station



### Internal view



### Retrofitted Electrical Systems



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

**Retrofit   Rebuild   Remanufacture   Design & Build**



Machine Tool Technologies Ltd, 1H Ribble Court, 1 Meadway  
Shuttleworth Mead Business Park, Padiham, Lancashire, BB12 7NG, UK

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

Contact us now on  
**0845 676 9886**

or email  
**info@mtt.uk.com**