

CASE STUDY

Machine **Lathe**

Customer **Defence Application**

Buying a commercial off-the-shelf machine and then modifying it to meet your specific requirement is the best alternative to resolving certain process applications or dramatically expanding the functionality of your existing machine.

MTT will study your application and specifications and provide a formal quote, including a concept design plan, and projected engineering and manufacturing investment requirements.

We have extensive experience in designing or adapting machines with high accuracy specifications or harsh environments including nuclear and aerospace.



Original Machine Condition

- COTS (Commercial off-the-shelf) slant bed turning machine to be modified to meet ATEX regulations and customer specific requirements



Refurbishment Specification

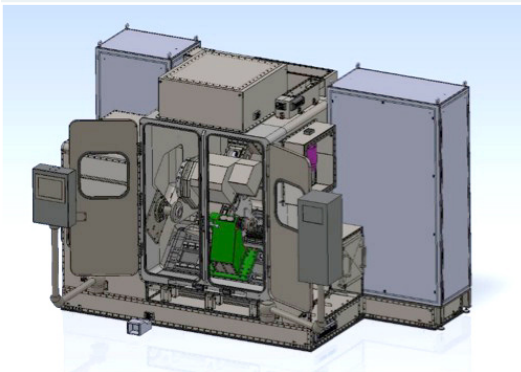
MTT modified this machine in relation to specific operational requirements.

- The working envelope of the machine around the spindle area was totally sealed and dust free
- CCTV system was installed to allow the machine to be operated remotely
- Swarf and dust extract system installed
- Vacuum holding system added for work-piece holding
- All internal enclosures pressurised to protect against dust ingress
- Moving elements protected by lip seals and purged with positive air
- Machine accuracy and performance should not be affected by design modifications
- Integration of the customers safety control system
- Integration of an air flow monitoring system
- Full electrical cabinet rebuild with intrinsically safe circuit segregation and EMC compliance

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.

Modification

Modification plan



After Modification



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

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