torus

Fan Track BoringMachine

A521

INDUSTRIAL PHYSICS

Protecting
Product Integrity

Fan Track Boring Machine

With the ever increasing need for turbo fan engine efficiency in mind, Torus developed the A521 CNC Fan Track Boring machine. The machine produces an accurate fan track bore in a fraction of the time of any other system whilst at the same time requires fewer personnel for set-up and operation.

The A521 Fan Track Boring machine features a CNC control of the cutting path, negating the need for expensive fixed profile templates prone to inaccuracy and wear. Additionally, profiles can be easily edited from fan track profile CAD files giving unprecedented flexibility, dramatically reducing lead time and costs for new profile variants.

The integrated measurement system is utilised for pre-machining inspection, optimizing the cutting sequence to give ultimate machining efficiency. Of course, the same system is also used for final inspection, producing a measurement report tailored to the end user's requirement to include:

- Full profile scanning.
- Gauge point measurement.
- Full radial scanning.

The reports can be networked for full traceability.

Disclaimer
The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Features:

Capable of machining partial fan tracks (maybe required at overhaul) and full fan tracks (typical to engine production). There is also the facility to custom cut profile diameter to match the fan set.

Integrated vacuum extraction system removes dust directly from the cutting tip, leaving the working environment free from contamination, meaning that the cutting operation can be conducted in the engine build area.

Transportable through the factory once folded away into its compact position on the wheeled base. All interlocked guarding is integrated within the trolley, and once machine is located, is quickly and easily positioned.

Loading of the machine on to the engine is effortless; the pneumatic manipulator is balanced to give the boring bar an almost weightless feel. This of course, also ensures there are minimal external forces on the LP shaft or through the fan case during machining.

Benefits:

- Can be adaped for various tasks.
- Equally suitable for those with some or no CNC programming knowledge.
- Utilises modern CNC technology.
- Pre-programmed simple menu display and ready configured keyboard on control cabinet.

Ordering Information:

Article Number	Article Description
A521	Fan Track Boring Machine

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