

**FastGrind at a glance**

- Double ended HSK wheel spindle
- User friendly and highly advanced software
- The very latest in CNC grinding technology
- ANCA's proven accuracy and reliability
- Resharpener machine with manufacturing capabilities
- Unbeatable price/performance relationship
- Polymer ANCAcrete base
- MPG feed
- Direct-drive technology



**ANCA global support**

ANCA's FastGrind is the CNC tool and cutter grinder chosen by resharpener shops where high precision tools and reliability are paramount.

It is designed to meet the demands of a competitive industry, and is supported by ANCA's worldwide team of technical specialists. Confidence that ANCA is the right choice goes beyond the machine. The ANCA team will be your partner with application and machine support from training right through to maintenance.

**Precision**  
**Versatility**  
**Productivity**  
**Confidence**

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## FastGrind The economical CNC grinding machine

### The affordable tool grinding package

The ANCA FastGrind is an entry level CNC tool grinder and a popular machine in the ANCA range.

This machine offers all of the benefits that ANCA customers have enjoyed for many years at an extremely affordable price. The FastGrind is a versatile and flexible machine and is suited to a wide variety of industries and applications. It is popular with regrinders and provides opportunities for companies to reduce costs by bringing regrinding in-house. It is also ideally suited to companies looking for reduced risk in making the transition into CNC grinding technology.

The FastGrind has all of the essential elements the industry demands for cost-effective tool grinding, including:

- Quick and easy set-up
- Superior tool accuracy
- High quality surface finish
- Flexibility to grind a large variety of tool types
- Machine reliability and accuracy

### Flexibility and speed

The FastGrind is both small and compact, yet has a large working envelope making it suitable for a wide range of tool types, geometries and shapes.

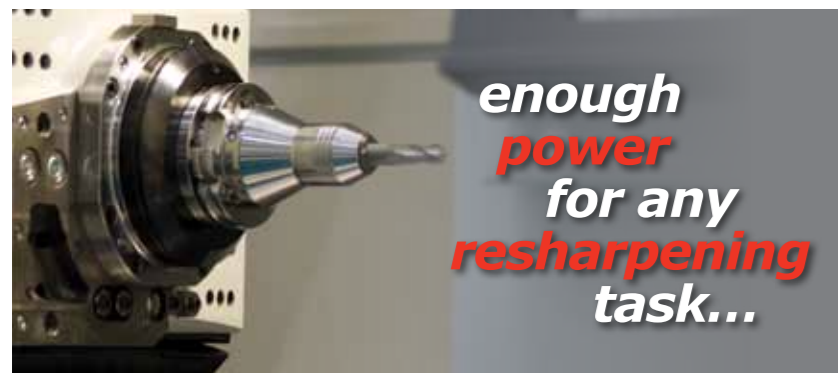
The FastGrind also has both the flexibility and speed to tackle a wide range of different high-precision cutting and drilling tools in one set-up. For resharpening, the standard probe system digitises the features and geometry of the tool, ensuring accurate and precise grinding.

### Direct-drive technology

The double-ended wheel spindle is based on a direct-drive, bi-directional motor design capable of 10,000 RPM.

With a HSK40F taper, constant power of 3.7 kW (5 HP) and peak power of 8 kW (10 HP), it offers enough power for any resharpening task. There are no belts, pulleys or gears, resulting in superior surface finish on the ground tool and higher machine reliability.

All linear and rotary machine axes, including workhead, use direct-drive technology giving greater positional accuracy.



**enough  
power  
for any  
resharpening  
task...**



## FastGrind Machine features and options

### Machine-enhancing options

A variety of options can further enhance the machine's flexibility.

### Software

The FastGrind comes standard with ANCA's industry leading ToolRoom software suite. ToolRoom enables quick and easy set-up for grinding a diverse range of tools, including endmills, standard drills and step tools. ToolRoom is very user-friendly and allows a high degree of program customisation, further enhancing the machine's grinding capabilities.

Additional software options create further possibilities to grind other tool types including:

- Profile tools
- Side and face cutters
- Proprietary drill points
- Gun drills
- Routers

### Workholding and tool support

The standard FastGrind is configured for use with manual workholding systems. A pneumatic headstock actuator option is available that enables automated workholding solutions to be used and is a mandatory option when used with the FastLoad automated loading system. Other tool support hardware such as steady rest and tailstock are also available.

### FastLoad Automation System

Compact in design, this loader is mounted in the machine and does not increase the machine footprint. It provides automatic tool loading, enabling extended periods of unmanned operation. The pallet capacity ranges from 245 tools with Ø3 mm (1/8") shank, 156 tools with 6 mm shank and 36 tools for Ø20 mm (3/4") shank.

### iView

A camera & measuring system developed by ANCA which measures the ground tool in its original clamping, inside the machine.

## FastGrind Technical specifications

### CNC-Data

ANCA 5DX, Core 2 Duo, min. 3GB RAM, 15" Screen

### Mechanical axes

Position feedback resolution	
X-axis	0.0001 mm (0.0000039")
Y-axis	0.0001 mm (0.0000039")
Z-axis	0.0001 mm (0.0000039")
C-axis	0.0001 deg
A-axis	0.0001 deg
Programming resolution	
X-axis	0.001 mm (0.000039")
Y-axis	0.001 mm (0.000039")
Z-axis	0.001 mm (0.000039")
C-axis	0.001 deg
A-axis	0.001 deg

### Software axes (patented)

B, V, U, W

### Work piece

Maximum tool diam. Ø220 mm (8.66")  
Maximum tool weight 20 kg (44 lbs)

### Drive system

ANCA Digital (SERCOS standard) / Linear axes direct-drive ballscrew / Rotary axes direct drive

### Machine data

Grinding spindle	Bi-directional direct drive 3.7 kW/5 HP (S1) 8 kW/10 HP (peak) 10,000 RPM HSK40F taper
Grinding wheel	Max Ø203 mm (8")
Wheel bore	Ø31.75 mm (1¼"), 32 mm (1.26") and 20 mm (0.79")
Two wheel packs	Max 4 wheels each

### Other data

Electrical power	15KVA (including coolant system)
Probe system	Renishaw
Coolant system	External
Machine base	ANCAcrete (Polymer concrete)
Colour	RAL 7035 / RAL 5014
Weight	Approximately 4500 kg (9920 lbs)
Floor plan	Width: 2075 mm (82") Depth: 1450 mm (57") Height: 1990 mm (78")

ANCA reserves the right to alter or amend specifications without prior notice

