

FastGrind



*The Economical
Resharpener Machine*

ANCA[®]
TOTAL PRECISION

FastGrind *The economical CNC resharpener machine*

The affordable resharpener package

The ANCA FastGrind is an entry level CNC grinding machine designed for the tool resharpener industry.

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 provides opportunities for companies to reduce costs by bringing regrinding in-house and 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 setup
- 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 vast array of tool types, geometries and shapes.

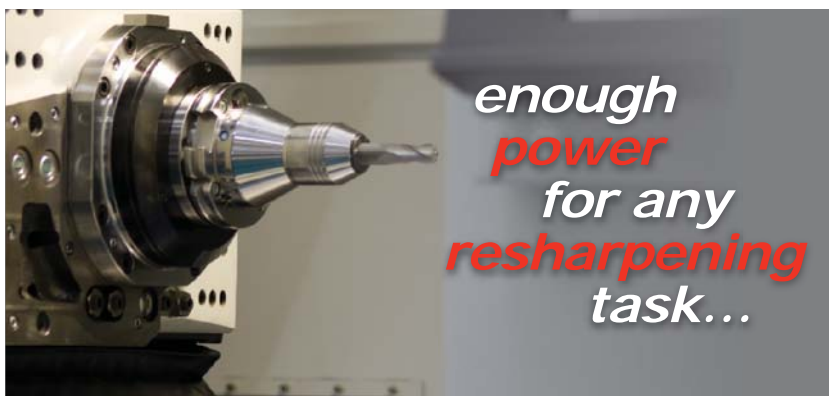
The FastGrind offers both flexibility and speed to tackle a wide range of different high-precision cutting and drilling tools in one set-up. For resharpener, the standard probing system digitises the features and geometry of the tool, ensuring accurate and precise grinding.

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 (5.0 HP) and peak power of 8.0 kW (10.0 HP), it offers enough power for any resharpener task. There are no belts, pulleys or gears, resulting in superior surface finish on the ground tool and guarantees higher machine reliability.

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



*enough
power
for any
resharpener
task...*

*the
affordable
choice*



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 setup for grinding a diverse range of tools, including end-mills, standard drills and step tools. Toolroom® is very user-friendly and also allows a high degree of program customisation, further enhancing the machines grinding capabilities.

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

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

Workholding and tool support

The FastGrind offers the following:

- Manual hydraulic chuck (Ø3 - Ø26mm, and Ø32mm)
- Slim series collet chuck (Ø3 - Ø25mm)
- Steady support bed
- Steady rest
- Tailstock

Coolant system

The FastGrind offers a rare earth magnetic coolant system, which is suitable for both HSS and carbide.

iView

iView is a precise tool measurement system developed by ANCA. It is ideal for precision grinding of profile tools and can be quickly set up without removing the tool from the machine for profile measurement and compensation.



FastGrind Technical specifications

CNC-Data

ANCA 5DX, Core 2 Duo, min. 1GB 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 dia. Ø220 mm (9.4")

Maximum tool weight 20 kg (44 lbs)

Drive system

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

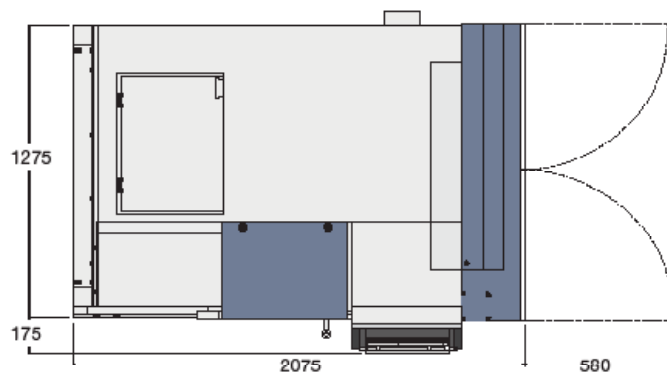
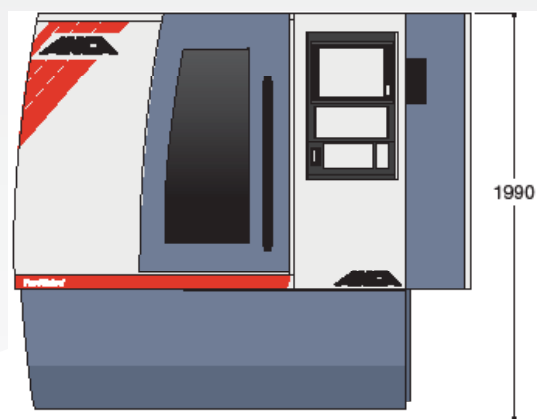
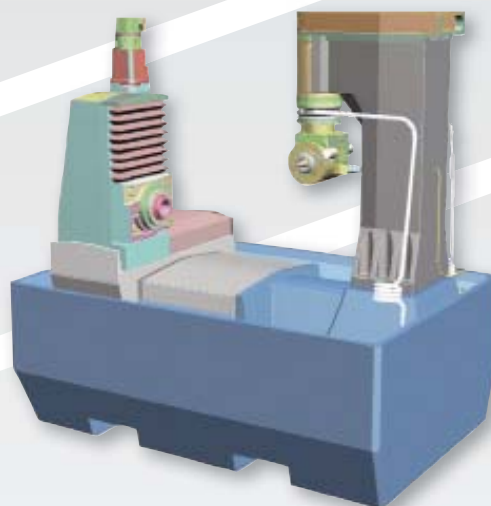
Machine data

Grinding spindle	Bi-directional direct drive 3.7kW/5HP (S1) 8kW/10HP (peak) 10,000 RPM HSK40F taper
Grinding wheel	Max Ø202mm (8")
Wheel bore	Ø31.75 mm (1¼"), 32mm and 20mm
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
Floor plan	Width: 2075 mm (82") Depth: 1450 mm (55") Height: 1990 mm (78")

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



FastGrind *The reliable resharpener machine*

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 some manufacturing capabilities
- Unbeatable price/performance relationship
- Polymer ANCAcrete base
- MPG feed
- Direct-drive technology



*the very
latest in
CNC grinding
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 world-wide 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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