



## Make a complete drill in 20 seconds

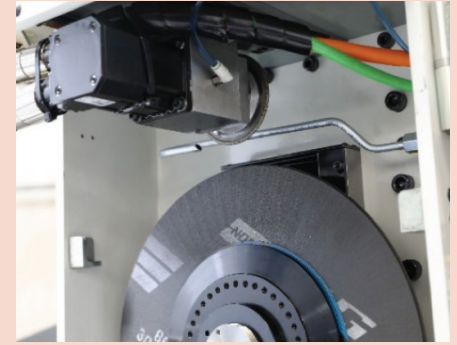
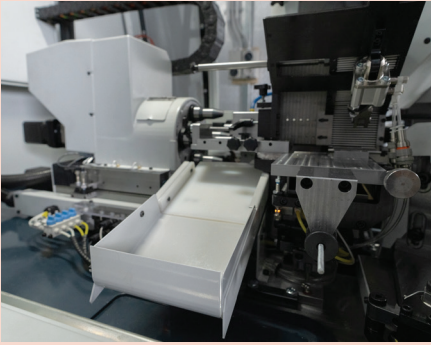
The FCP6 Drill Production Grinder manufactures a complete HSS commodity drill on a single machine. From a HSS cylindrical blank, the FCP6 grinds the Flute, Relief and Point to produce a finished drill. Designed for drills up to a 6.35mm diameter, the multi spindle machine provides simultaneous grinding operations to produce a complete drill every 20 to 25 seconds (size dependant).

The machine features 8 fully controlled CNC axis, which provides greater flexibility, control and quicker setup times over traditional CAM operated machinery. The benefits of CNC technology and machine design also produce a superior surface finish and size control than what is possible on non-CNC controlled machinery.

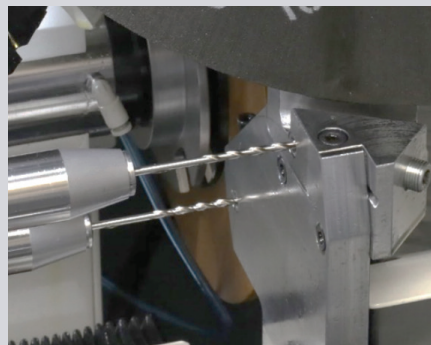
The FCP6 comes standard with ANCA Motion AM5C Drives, AMI5000 Touchpad (swivel and tilt) and Commander software on the Windows 8 platform. The Commander software allows the operator to enter parameters and features on a new drill quickly and easily. DXF import is available to produce a drill to a specific flute shape in a very short amount of time.



**ANCA**  
CNC MACHINES



The FCP6 comes as standard with CNC dressing as the flute shape is CNC form dressed onto the fluting wheel. The machine also comes as standard with CNC dressing for the relief grinding wheel and single point diamond for the drill point wheel.



The four-station turret workhead utilises W10 Schaublin collets, allowing simultaneous grinding of the flute, relief and drill point along with loading and unloading capabilities. This workhead design ensures high productivity when producing drills in large volumes.

The FCP6 has a range of options and accessories to suit different diameters within a range of 0.8 to 6.35mm diameter. These include dedicated bush support for fluting, relief and point grinding and options for magazine type and high capacity hopper loaders.

Designed specifically for the high volume high quality production of HSS drills, the FCP6 is a game changer for any drill manufacturer looking to make a better class of drill.

#### KEY FEATURES:

- Complete drill production from HSS blank
- Full CNC grinding and dressing operations
- Fully enclosed machine canopy with safety interlocks
- ANCA Motion CNC and drive technology
- Intuitive and user friendly operator panel with touch screen
- Flute shape adjusted by CNC and form dressed on the machine

#### BENEFITS:

- Superior surface finish and drill geometry
- Quick changeover time facilitates small batch runs – as low as 20 minutes!
- Minimised setup scrap
- Adjust programs in cycle to optimise drills being ground

#### TECHNICAL SPECIFICATIONS

Control system	ANCA Motion, 8 axis
Flute motor	9.2kW direct drive
Point motor	2.2kW direct drive
Relief (clearance) motor	2.2kW direct drive
Machine base	Steel frame and polymer concrete
Drill size range	0.8mm - 6.35mm
Flute wheel diameter	Max 300mm, Min 214mm (3-4mm wide)
Relief (clearance) wheel diameter	Max 200mm, Min 130mm
Point wheel diameter	Max 125mm, Min 120mm
Max drill length (overall)	152mm
Max flute length	125mm
Maximum drill length	Up to 200mm
Loading type	Hopper type loader with catch tray
Work holding	Schaublin W10 collet
Cycle time examples	
2mm standard jobber drill	22 seconds
3mm standard jobber drill	25 seconds
Machine footprint	2,440mm x 1,600mm