ANCA®

versatile & innovative machines & software

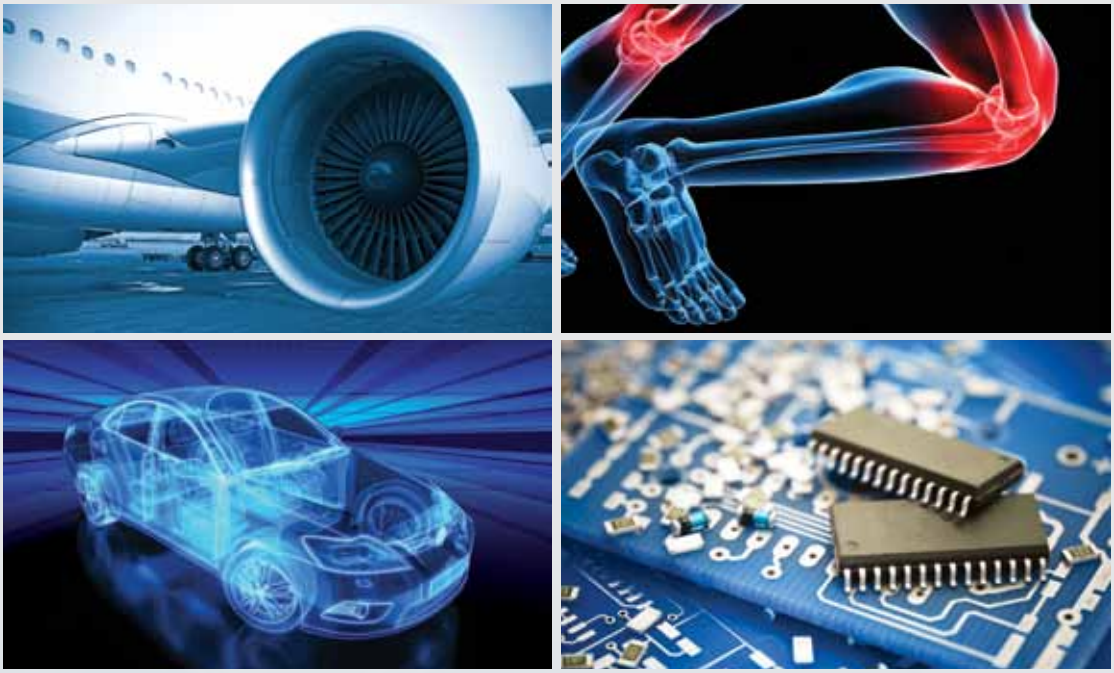
"ANCA has the tool grinder you need"

ANCA Global Support

ANCA CNC tool and cutter grinders are chosen by the type of industries where high precision tools and reliability are paramount.

The machines are designed to meet the demands of competitive industries, and are 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.

ANCA is a leading technology innovator



Since the company's incorporation in 1974, ANCA has grown to become one of the world's foremost CNC tool grinding machine manufacturers and has gained recognition in the industry as a leading technology innovator.

ANCA's progressive R&D program has ensured that ANCA remains at the cutting edge of global CNC grinder design and has resulted in the company receiving numerous international industry and business awards.

As ANCA designs and manufactures its own machines, the company is able to provide ingenious solutions for key components such as CNC controls, spindle and servo drives. ANCA manufacture all their own main mechanical components and assemblies, while also testing each final product to rigorous international machine tool standards. ANCA also develops its own advanced system and easy-to-use application software.

This unmatched level of autonomy and control allows ANCA to be extremely flexible with respect to customers' specific requirements.

EDGe

EDGe Erosion & Tool Grinding Machine

Produce PCD tools with the new EDGe

The new ANCA EDGe erosion and tool grinding machine gives you the flexibility to erode PCD tools AND grind carbide and HSS tools. The EDGe includes the proprietary EDGe-Spark Erosion Power Generator for control over the energy level of the spark, surface finish, material removal and cycle time.

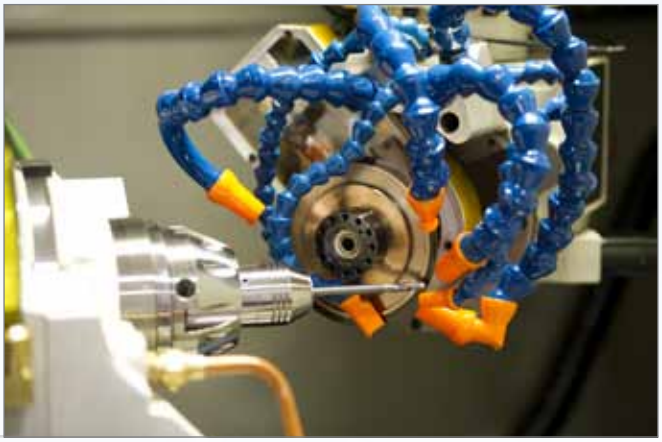
The EDGe includes the same rigid reliability in all ANCA machines and represents the latest in innovation.

Overview

- Adaptive erosion – adjusts every spark for optimum surface finish and cycle time
- Double ended HSK wheel spindle means you can erode and grind in one set-up
- Industry leading user-friendly and versatile tool design software
- Suitable for tools with a maximum diameter of 220 mm (8.66”)
- Compatible with the FastLoad Automation System

Technical Specifications

Spindle Power	8 kW (10 HP) peak 3.7 kW (5 HP) S1
Spindle Type	Double ended EDGe spindle (Erode & Grind)
Wheel Packs	2 x ϕ 203 mm (8″) max
Software axes	B, V, U, W
Max Tool Diameter	220 mm (8.66″)
Max Tool Weight	20 kg (44 lbs)
Loader Type	FastLoad (option)
Max. Tool Capacity (with loader)	245 x ϕ 3 mm 156 x ϕ 6 mm
Linear Scales	Standard on X-axis and Y-axis
Pneumatic Collet Actuator	Option
Touch Screen	Yes
Headstock Mounted Coolant Outlet	Yes
Dresser	Single point dresser for erosion
Auto-Stick	1 Stick (option)
Pop-up Steady	Option (Grinding)
Touch Probe	Yes
iView	Option
iBalance	Option
Dimensions	Width 2160 mm (85″) x Depth 1530 mm (60″) x Height 1990 mm (78″)
Weight	Approximately 4500 kg (9921 lbs)
EDGe-Spark Erosion Power Generator	
Voltage output range (min/max)	48-300 VDC
Current range (min/max)	0.5-23 Amps
Time ON/OFF range (min/max)	0.5-300 µs
Polarity	Positive/Negative
Other features	Short circuit detection, arc detection, spark detection, adaptive erosion



TXcell

eXcellence in cellular tool manufacturing

ANCA's TXcell is a revolutionary new system in cellular tool manufacturing that fights the profit squeeze on three vital fronts: flexibility, productivity and precision. TXcell combines two proven performers: ANCA's TX7+ universal grinder and the Fanuc M-20iA robot.

The TXcell robot handles tool loading as well as the automatic change of up to 24 wheel packs with coolant manifolds. This sets the TXcell up to be the industry's most flexible and productive machine for grinding not only rotary cutting tools, but also specialised medical and aerospace components.

Overview

- All the advantages of the TX7+ universal grinder
- Fanuc M-20iA robot changes tools and grinding wheel packs
- Tool loading capability in large (4 pallet) and compact (2 pallet) layout
- 9 wheel packs standard, 14 or 24 capacity
- Grinding wheel diameter up to 300 mm (12")
- Robot can be used for ancillary operations within the TXcell such as laser etching and tool finishing
- Ultimate machine for flexibility in unattended production

TX7+

The tough production performer

ANCA's premium machine - the result of 20 years of ongoing R&D and the implementation of customer feedback. The basis of the powerful TX7+ is our expertise in CNC technology, mechanical and electrical design and software engineering. It is a machine that is an industry benchmark in CNC tool grinding.

Flexible software and tooling, combined with a large working envelope mean the TX7+ is also capable of manufacturing much more complex tools than endmills and drills. It can also be used to manufacture rotary medical instruments, standard and key hole press punches, and components for the medical, aerospace and automotive industries.

Overview

- Suitable for heavy-duty manufacturing or reconditioning precision cutting and drilling tools, plus component manufacture
- Automatic wheel changer allows up to 8 grinding wheels to be used in one set-up
- Wide variety of work holding and support tooling to meet individual needs
- RoboMate automation for unmanned operation
- 37 kW (49 HP) peak spindle power
- Integrated dresser roll on the headstock

TapX

The complete tap manufacturing solution

ANCA's TapX is a revolution in tap design and manufacture. In a single compact set-up, one machine can perform the entire scope of tap manufacturing processes from blank to finished product.

Customised tooling combined with the powerful iTap software means that a wide range of tap types and sizes can be designed and manufactured on one machine. This ensures greater productivity and shorter lead times.

All TapX hardware and software is transferrable to the TXcell.

Overview

- One machine solution for the complete production of all styles of HSS and carbide taps
- Excellent tooling flexibility means that the TapX has fast set-up times and is suited to small or large volume batch runs
- Impressive suite of dedicated tap and flute design software including optional 3D simulation of tool grinding process
- Flexible wheel dressing options for all grinding wheels
- Optional on machine thread and OD relief measurement

MX7

The next generation manufacturing machine

The ANCA MX7 is a powerful, versatile, next-generation CNC grinding machine designed to meet the rigorous demands for production grinding. It is built to answer today's economic realities and the demands of high output, high precision manufacturing.

The MX7 is a hard-working, high productivity system with unique features that make it capable of handling varied batch sizes with minimum set-up time. Speed, flexibility, ANCA reliability and optimal precision – the MX7 has it all.

Overview

- Standard wheel changer that stores and changes up to 6 HSK wheel packs
- RoboMate or FastLoad-MX automatic tool loading options
- Permanent magnet spindle that delivers constant high torque across the RPM range
- Integrated wheel dresser
- 38 kW (51 HP) peak spindle power

MX5

Quality has just become more affordable

The MX5 is the newest machine in the ANCA range. Designed with volume producers in mind, it also has the flexibility to manufacture mixed batches. The MX5 includes the most important features of the premium MX platform, such as the bi-symmetrical gantry which supports the grinding wheel and spindle. Evenly straddling the tool centre line, the gantry provides extra rigidity for consistently accurate tools.

The new MX5 has all the rigidity, stability and accuracy characteristics of the proven MX7, in a machine that is affordable to more customers.

Overview

- 26 kW (34.8 HP) peak spindle power
- Compact machine with strength, power and versatility
- RoboMate or FastLoad-MX automatic tool loading options
- 2-station wheel pack with max. of 4 wheels each
- Suitable for grinding wheels up to 203 mm diameter (8”)
- Ideal for grinding tools up to 16 mm (⅝”) diameter in large volumes

GX7

The cost-effective CNC grinding machine

The GX7 is an ideal match for companies interested in resharpening or light manufacturing - and who prefer more functionality. The differences when compared to ANCA's entry level machine include two automation choices, an optional wheel changer, more spindle power and more options.

The GX7 is small and compact but has a large working envelope making it suitable for a wide range of tool types, geometries and shapes.

Overview

- Resharpening machine with some manufacturing capability
- Flexibility and speed to handle a range of different tools in one set-up
- High-level ergonomics for optimal operator access
- Fast cycle times
- 9.5 kW (12.7 HP) peak spindle power
- RoboMate or FastLoad automatic tool loading options

FastGrind

The economical CNC grinding machine

The FastGrind includes the usual innovative ANCA features at an affordable price. The FastGrind is a versatile machine that is suited to a wide variety of industries and applications. Due to its lower price, the FastGrind reduces the risk for companies moving into CNC grinding for the first time. It also provides opportunities and cost savings for companies wanting to bring regrinding in-house.

Overview

- Resharpening machine with some manufacturing capability
- Double-ended HSK wheel spindle
- User-friendly, innovative ToolRoom software
- The very latest in CNC grinding technology
- ANCA's proven accuracy and reliability
- FastLoad compact loader option

Automation

Efficiency and productivity

RoboMate Loader

ANCA's RoboMate robot loader is a versatile and flexible automation solution that is equally efficient on a range of ANCA CNC tool and cutter grinders. Using the accuracy and reliability of the Fanuc robot, RoboMate takes the tool directly from the pallet to the collet in a single grip.

Because this loader has been designed to fit most of ANCA's machines, you have common pallets and grippers for different grinders. You can also swap loader pallets between RoboMates regardless of which ANCA grinder they are installed on.

- Proven Fanuc reliability
- Designed with high levels of safety and ergonomics
- Available with 2 pallets (standard) or 4 pallets (optional)
- Can be used on TX7+, TapX, MX7, MX5 and GX7+
- Cost-effective, efficient and fast

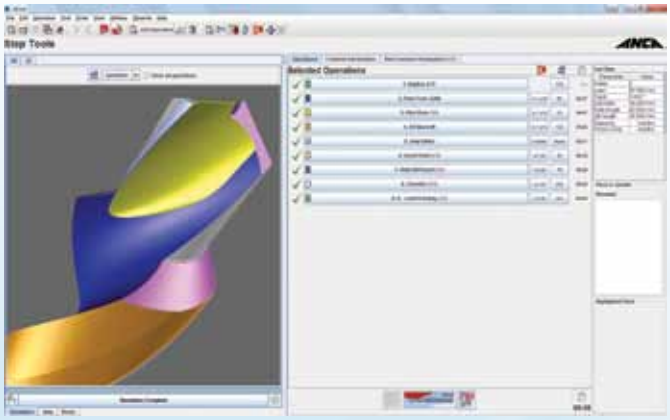
FastLoad Compact Loader

The FastLoad is a unique loading system that is fully contained within the machine canopy. It is designed to be a low-cost solution for customers seeking automation and is perfect for low-volume production runs. The FastLoad-MX is designed for the MX7 and MX5 machines. The FastLoad can be installed on the FastGrind, GX7 and EDGe machines.

- Uses existing machine axes for pallet movement & tool loading
- Capable of loading round shank tools
- No increase in footprint over the machine base
- Automatic loading allows more effective use of workforce
- Optimised for highest volume diameters and lengths
- No need to change gripper fingers between batches

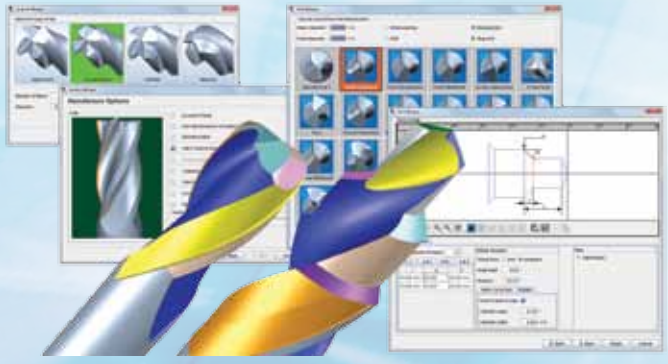
ToolRoom 2012

Flexible software with superior application diversity



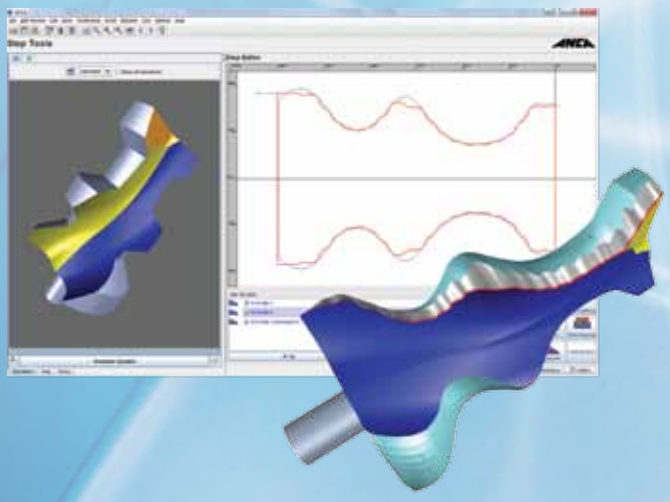
Flexible

Flexibility is what puts ANCA and our customers ahead of the competition. ANCA's ToolRoom software provides industry renowned tool design flexibility, from the simplest to the most challenging tasks. With the benefit of over 30 years of specialist knowledge, ToolRoom ensures that your ANCA grinder will efficiently handle any manufacturing or regrinding challenge.



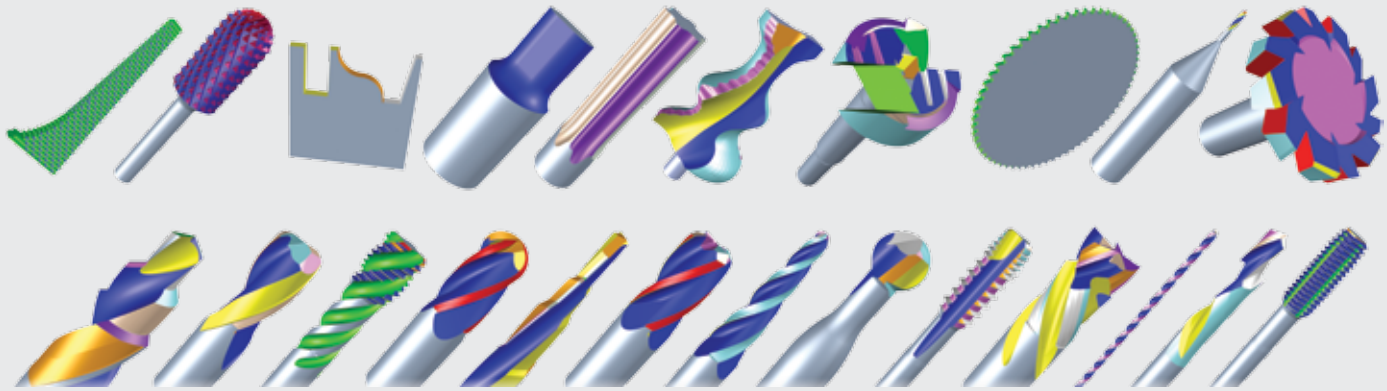
User Friendly

Tool wizards, integrated 2D and 3D graphics, clear help images for all parameters, and easy to use touch-screen friendly interfaces are just some examples of how ANCA have achieved the perfect balance of flexibility and user friendliness. The endmill and drill wizards in ANCA's main tool design software, iGrind, can generate a wide range of production-ready tools directly on the machine. This ensures minimal design time and maximum machine utilisation.



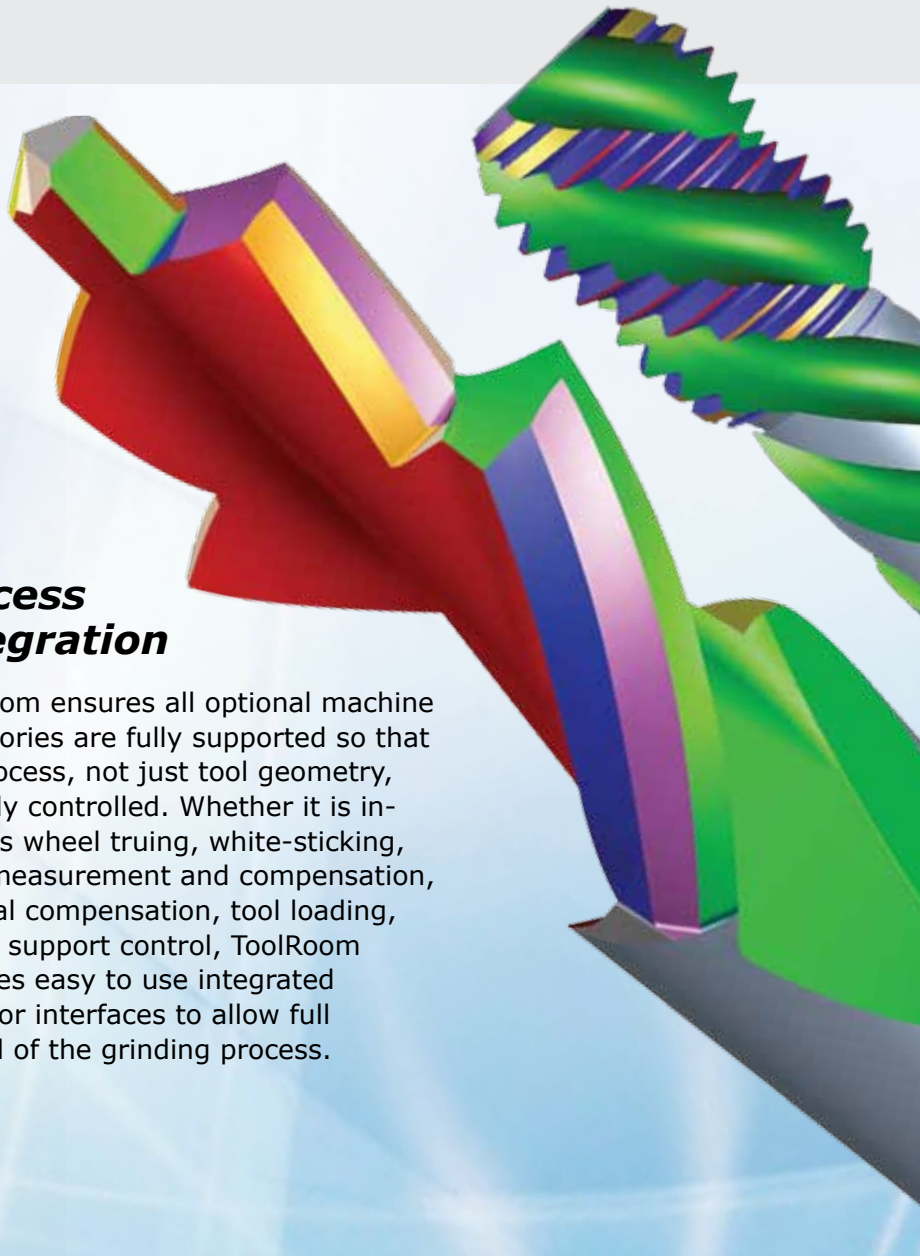
Accurate

Generating grinding paths for the high accuracy requirements expected from modern CNC grinders is a complex task. ToolRoom uses sophisticated mathematical libraries developed in-house over decades to solve such problems. From the ToolRoom 2012 version, iGrind can also accurately determine the position of cutting edges on tools from 3D models. This eliminates the need to digitise complex profiles. For regrinding, ToolRoom includes a comprehensive range of tool digitising options.



Application Diversity

ToolRoom software provides the flexibility to design, manufacture and regrind a wide range of tools. The application diversity delivered by ToolRoom ensures that your ANCA grinder is able to be utilised for all your current and future CNC grinding needs. It is suitable for everything from endmills, drills, special tools, to a wide variety of medical instruments. Flexibility is further enhanced by the fact that ANCA develops all aspects of the machine in-house, from the CNC control system and application software, to the machine and its accessories. This allows for special software to be developed to suit an individual customer's needs.

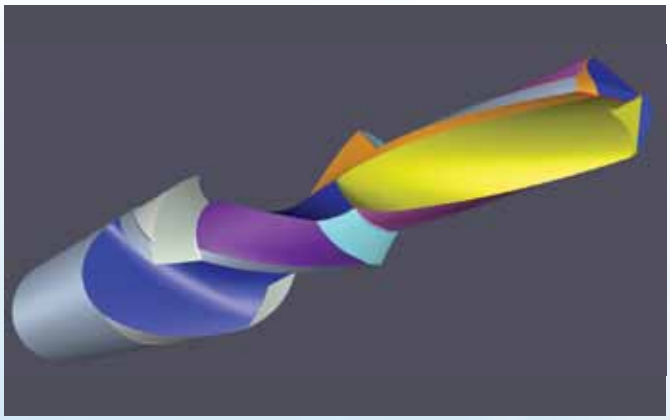


Process Integration

ToolRoom ensures all optional machine accessories are fully supported so that the process, not just tool geometry, is easily controlled. Whether it is in-process wheel truing, white-sticking, laser measurement and compensation, thermal compensation, tool loading, or tool support control, ToolRoom provides easy to use integrated operator interfaces to allow full control of the grinding process.

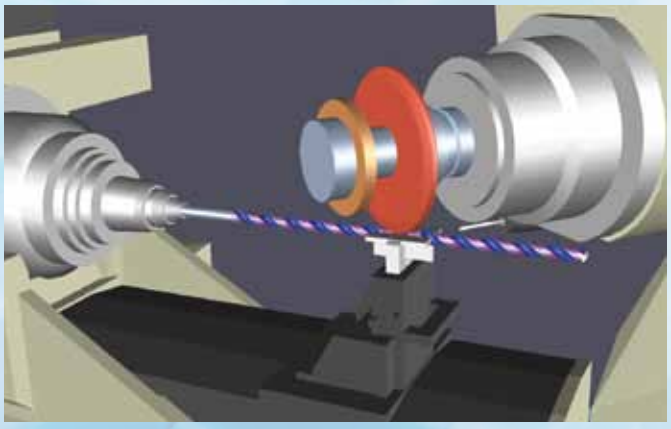
CIMulator3D

The 3D revolution which changed an industry



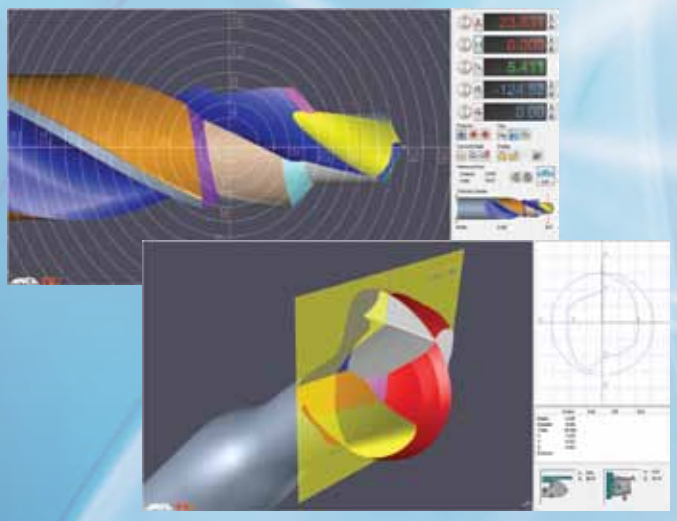
Industry leading 3D quality

ANCA was the first to introduce true 3D simulation technology for CNC tool and cutter grinding with the CIMulator3D software. Through continual development, CIMulator3D continues to lead the industry with a wide range of verification features and unmatched 3D quality. The model can be freely moved, zoomed, or rotated for the user to view every detail of the tool.



Process verification

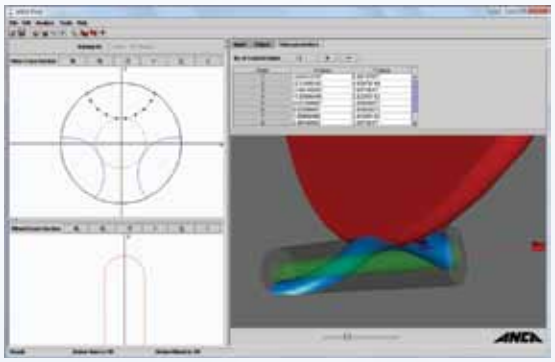
CIMulator3D not only simulates the ground part but also all grinding moves, machine models, and optional accessories. The entire grinding sequence can be animated and collisions detected automatically. Offline verification of the geometry and process not only provides confidence but also minimises development time and maximises machine utilisation.

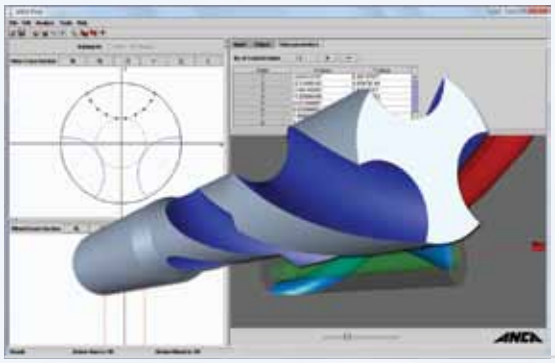


Unmatched measurement features

The powerful measurement tools in CIMulator3D provide complete flexibility to verify the dimensional accuracy of the simulated part. The part can be accurately sliced and inspected in any orientation, providing fine control of the measurement process. The ability to import DXF overlays allows comparisons to be made between the simulation and the nominal design.

iFlute



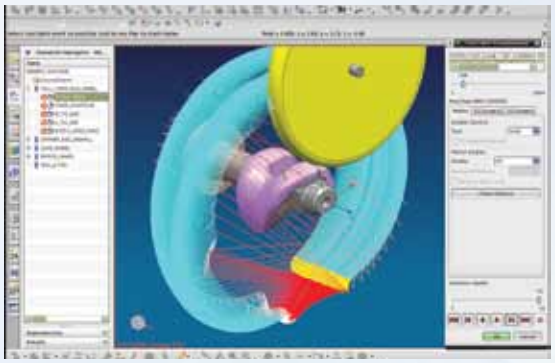


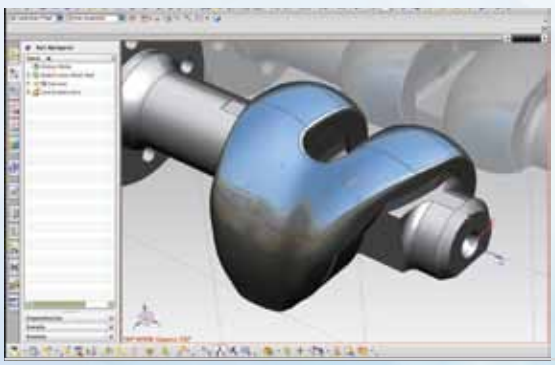
iFlute is a stand-alone Windows based application that provides a powerful environment for designing both grinding wheel and flute profiles. The main benefit of iFlute is the ability to calculate the ideal wheel shape required to produce any possible flute cross-section.

Overview

- Import/Export of flute and wheel DXF shapes
- In-built ability to produce flute shapes with constant lip or constant hook profiles
- Export of required fluting parameters directly into iGrind software
- Automatic best-case geometry correction when specified flute has no grinding solution
- 3D Visualisation

ANCam NX



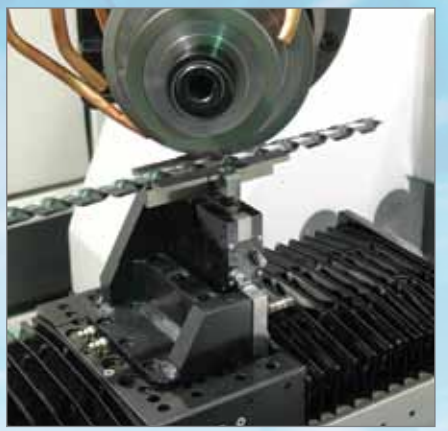


ANCam NX is a post-processor solution for Siemens NX software. Integration between 5-axis CNC tool grinders and CAD/CAM software has created new possibilities in meeting challenges such as those posed by the orthopaedic implant market. ANCam NX allows CAD generated models to be used to create NC programs for grinding, or light milling and drilling, from within the Siemens NX software. The generated program can then be used within ANCA's iGrind tool design software to manufacture the part.

Overview

- Minimal post processing of CAD data
- Process parameters can be changed on the machine without having to revisit the CAD model
- Full offline 3D simulation, including collision detection and cycle time estimation using ANCA's CIMulator3D

Accessories



Travelling Steady *(P-axis)*

The Travelling Steady provides the machine with an additional axis (P-axis) which keeps the tool support directly underneath the grinding point at all times. The Travelling Steady provides support under the wheel during heavy fluting operations on long slender tools with a high aspect ratio (length: diameter). It comes in 3 variations: Arobotech (Hydraulic), Bush and Tailstock.

- Ensures rigid support for long tools
- Reduction of vibration and chatter when grinding
- Support of drills with a back taper is possible
- Increased machine output and high productivity
- Higher feedrates and reduced cycle times are possible

*** TX and MX machines only**

Wheel Probe

The auto wheel pack qualification probe is used to accurately measure grinding wheels inside the machine. The Wheel Probe uses a Renishaw probe arm to qualify the wheel pack. It is possible to measure the front surface location, back surface location, wheel diameter and toroid radius of a grinding wheel. It eliminates the need for operator intervention which ensures consistent measurement results.

- Measurement of wheel shapes 1A1, 1V1, 11V9 and 1F1
- Eliminates the need to manually qualify the wheel pack
- Eliminates the need to remove the wheel pack from the grinder
- Increases machine productivity
- Reduces first tool rejections

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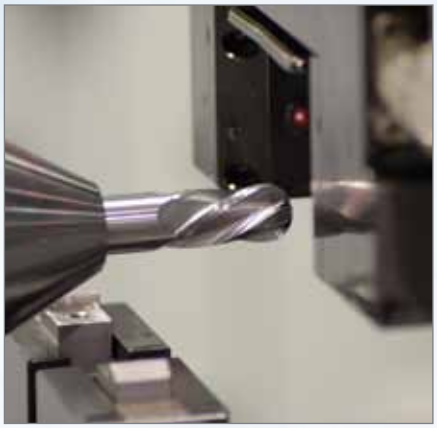


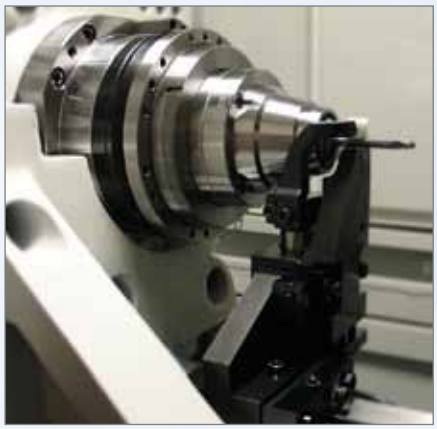
Laser Probe

The laser probe system (Blum Nano) provides accurate and repeatable measurement of tools inside the machine. The laser can automatically measure OD, run-out, EOT, ball nose and corner radius profile tools. Typically, the laser can achieve +/- 3 microns accuracy or better. An air blast unit on the laser ensures that coolant or contaminants do not interfere with the measurement process.

- Faster set-up times
- Less scrap
- No need to remove the tool from the machine
- Increased efficiency
- Laser OD SPC cycle also available
- Laser is permanently mounted inside the machine

***MX machines only**

Accuracy & repeatability
Performance & profit

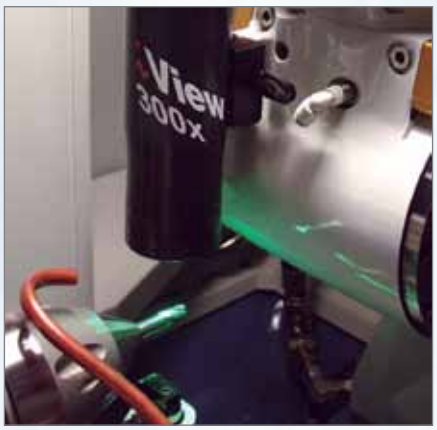


MicroPlus

NEW! MicroPlus provides less than 3 micron tool runout. It is ANCA's #1 high accuracy workholding and tool support system. The MicroPlus system consists of the Flexi-Chuck assembly for workholding, and the Overhead Top Clamp Assembly (OTC) for tool support. The Flexi-Chuck clamps and rotates the tool. The patented design allows the tool and the internal components to move independently of each other, minimising any misalignment.

The OTC consists of a V-block that supports the tool and a rigid overhead metal finger that holds the tool in place. The OTC provides alignment accuracy for the tool.

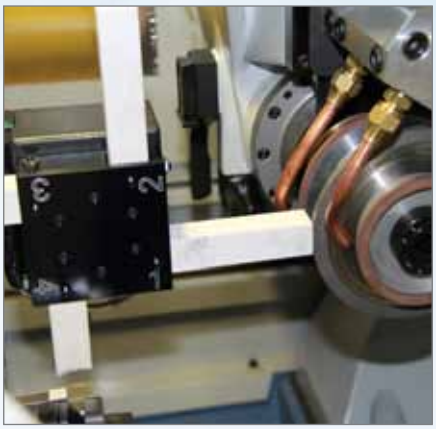
- Less than 3 micron (0.0001") runout
- Available for MX7, GX7 and RX7 tool grinders
- Elimination of radial and axial runout



iView

iView is a measuring system that is able to measure the ground tool while it is still in the work-holding on the machine. The image of the ground tool as taken by the iView camera is compared with an ideal overlay shape generated by the software. The tool size can then be compensated automatically based on the overlay.

- Eliminates the need to remove a tool from the grinder in order to check the dimensions
- Reduces errors caused by relocating and manually compensating
- 300x and 100x magnification options
- Provides measuring accuracy to 2 microns
- Includes the capability to be transferred to other ANCA machines

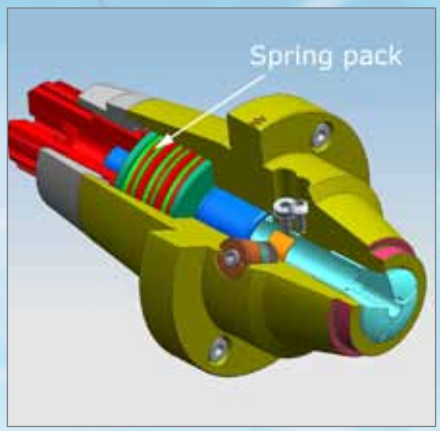


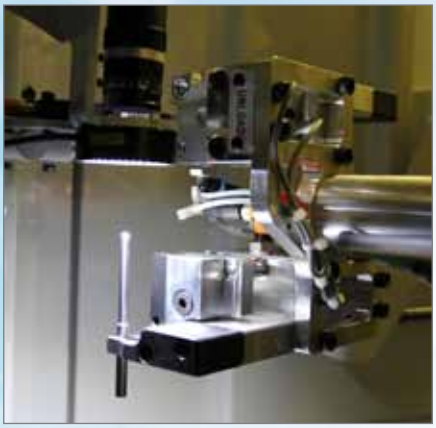
Auto-Stick

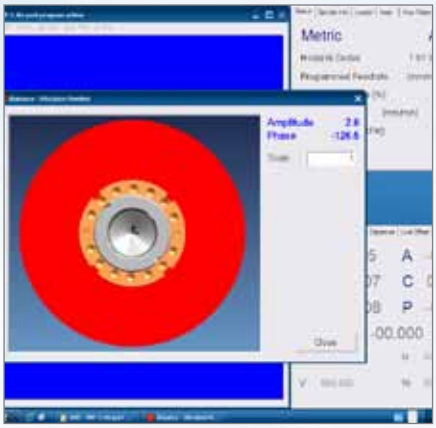
Automatic wheel conditioning system. Used for in-between cycle conditioning (sticking) of resin bonded CBN and diamond grinding wheels. Regular sticking of grinding wheels will ensure maximum results and help wheels last longer. When continually grinding, wheels become glazed, or loaded. The sticking process exposes the diamond and removes chips (swarf) embedded in the wheel so the wheel cuts better. Autostick is available as a 4 position, 2 position and 1 position model depending on the tool grinder it is for.

- Reduces tool burn and wheel glazing
- Improves feed rates and reduces cycle times
- Increases life expectancy of grinding wheels
- Saves time and increases operator safety

Accessories







PREMIER Collet Adaptors

ANCA's new PREMIER Collet Adaptors provides operators with a premium workholding range. The PREMIER Collet Adaptors use a new totally internal clamping mechanism. The spring pack in the adaptor provides the tool clamping force and prevents possible runout that was previously added if misalignment occurred between the drawbar and the collet.

- Reduces tool runout for improved tool quality
- Available in W20, W25 and B32/45 versions
- PCA (Precision Collet Adaptor) versions also available
- Available for MX7, MX5, GX and RX tool grinders

RoboMate Vision System

The new RoboMate Vision System detects internal coolant holes on drills that deliver coolant directly to the tip of the drill. The RoboMate Vision System uses the robot to place the drill under the camera before loading it into the machine. The camera ensures it is loaded into the collet in the correct orientation for flute grinding. This is a faster option than using touch probe digitising of coolant holes.

- Automated detection of coolant holes
- Reduced set-up and cycle times
- Non-contact measurement removes possibility of tool damage
- Available on the TXcell, TX7, MX7, MX5, GX7 & RX7 tool grinders

iBalance

iBalance is an ANCA designed wheel balancing system. It is a cost-effective system as the iBalance software uses hardware already on the machine. iBalance enables the balancing of wheelpacks in the machine using a semi-automatic process. Wheel packs are balanced by adding weight to the wheel nut at locations indicated by the iBalance software assistant. The software is also able to monitor the wheel balance while the machine is in operation.

- Extends wheel life
- Cost-effective and practical
- User-friendly graphical interface
- Provides improved tool surface finish due to the removal of wheel vibration

Service

Comprehensive Global Network of Service Centres
We have a global network of ANCA service centres and maintain one of the most experienced machine tool field service teams in the world. Our service technicians are OEM factory trained and provide the highest quality level of service to keep your tool grinder up and running.

Technical Queries & Application Support
Our factory trained service technicians are able to provide technical support and advice to keep your machine running at peak performance. ANCA also has an extensive network of applications engineers who can provide tool grinding solutions at a local level.

Training
Machine training can be made available with a machine order or purchased separately at a later date. Training is provided in a wide range of topics, including robotics and machine maintenance.

Preventative Maintenance
Prevent unexpected downtime by regularly maintaining your ANCA tool grinder. The user manual will advise what should be done to keep your machine in premium condition on a day-to-day basis. ANCA can help you further ensure you extend the life of your machine with its scheduled maintenances.

Service Contracts/Maintenance Agreements
To keep your machine running in peak condition and to minimise machine downtime an ANCA service contract/maintenance agreement can help you identify potential problems before they occur. This means you have one less thing you need to worry about. Please contact your local ANCA branch for a customised quote.

Replacement Parts
ANCA are able to provide Original Equipment replacement parts to ensure the high quality of your machine is maintained throughout its lifetime.

Software & Hardware Upgrade Programs
ANCA CNC tool grinders are known to have long service lives and software and hardware is updated frequently. The Service Department can assist you with updates for your machine to take advantage of more recent technology. For example, ANCA is currently offering ToolRoom 2012 upgrades.

FastGrind

ANCA's budget machine. Light manufacturing & sharpening of small to mid-size tools up to ϕ8 mm (5/16")

GX7

Same design as the FastGrind but with more spindle power & more options. Light manufacturing & sharpening of small to mid size tools up to ϕ12 mm (½")

MX5

ANCA's most economical bi-symmetrical gantry based machine. For production & sharpening from micro-tools up to ϕ16 mm (⅝") tools

MX7

Same design as the MX5, but with more spindle power, 4 extra wheel packs & travelling steady option. For more flexibility & longer unmanned production of tools up to ϕ25 mm (1")

TX7+

The heavy duty machine for production & resharpening of tools up to ϕ32 mm (1¼") & 400 mm (15.7") long. Also suitable for HSS tool production

TXcell

Advanced manufacturing & regrinding cell. TX7+ with robot cell for loading wheel packs (14 or 24 capacity - 9 standard) & tools (2 pallet or 4 pallet capacity)

Machine Structure	Single Column	Single Column	Bi-Symmetrical Gantry	Bi-Symmetrical Gantry	Bi-Symmetrical Gantry	Bi-Symmetrical Gantry
Spindle Power	8 kW (10 HP) peak 3.7 kW (5 HP) S1	9.5 kW (12.7 HP) peak Optional 15 kW (20 HP) peak 4.2 kW (5.6 HP) S1	26 kW (35 HP) peak 14 kW (19 HP) S1	38 kW (51 HP) peak 20 kW (27 HP) S1	37 kW (49 HP) peak 15 kW (25 HP) S1	37 kW (49 HP) peak 15 kW (25 HP) S1
Wheel Packs	2 x ϕ 203 mm (8") max	2 x ϕ 203 mm (8") max with wheelchanger: 7 x ϕ 150 mm (6") max	2 x ϕ 203 mm (8") max	3 x 203 mm (8") max or 6 x 152 mm (6") max	2 x ϕ 203 mm (8") max	Options up to 24: 10x ϕ 305 mm (12") max & 14x ϕ 203 mm (8") max
Tool (shank) Diameter	Productive up to ϕ8 mm (5/16")	Productive up to ϕ12 mm (½")	Productive up to ϕ16 mm (⅝")	Productive up to ϕ 25 mm (1")	Productive up to ϕ32 mm (1¼")	Productive up to ϕ32 mm (1¼")
Tool Length (Max)* *flute length - may vary depending on tooling	250 mm (10")	250 mm (10")	300 mm (12")	300 mm (12")	400 mm (16")	400 mm (16")
Loader Type	FastLoad (option)	FastLoad (option) RoboMate (option)	FastLoad-MX (option) RoboMate (option)	FastLoad-MX (option) RoboMate (option)	RoboMate (option)	Integrated. Robot loads tools & wheels & performs auxiliary operations (eg: laser etch)
Max. Tool Capacity (with loader)	245 x ϕ3 mm 156 x ϕ6 mm	FastLoad: 245 x ϕ3 mm 156 x ϕ6 mm RoboMate: 2420 x ϕ3 mm 1560 x ϕ6 mm 663 x ϕ12 mm	2420 x ϕ3 mm 1560 x ϕ6 mm 492 x ϕ16 mm	2420 x ϕ 3 mm 1560 x ϕ 6 mm 492 x ϕ16 mm 189 x ϕ25 mm	2420 x ϕ3 mm 1560 x ϕ6 mm 492 x ϕ16 mm 189 x ϕ25 mm 105 x ϕ32 mm	2420 x ϕ3 mm 1560 x ϕ6 mm 492 x ϕ16 mm 189 x ϕ25 mm 105 x ϕ32 mm
Spindle Orientation	n/a	n/a	Yes	Yes	Yes	Yes
Spindle Type	Double ended induction	Double ended induction	Single ended permanent magnet	Single ended permanent magnet	Single ended Induction	Single ended induction
Linear Scales	Standard on Y-axis only	Option	Option	Option	Option	Option

Touch Screen	No	Yes	Yes	Yes	Yes	Yes
Tool Load Time	20 seconds	20 seconds	15 seconds	15 seconds	15 seconds	15 seconds
Pneumatic Collet Actuator	Option	Yes	Yes	Yes	Yes	Yes
Travelling Steady (P-axis)	No	No	No	Option	Option	Option
Arobotech Auto Diameter Compensating Steady	No	No	No	Option	Option	Option
NC – Auto Height Adjustable Steady	No	No	No	Option	Option	Option
MicroPlus	No	Option	Option	Option	No	No
Overhead Top Clamp	No	Option	Option	Option	Option	Option
Pop-up Steady	Option	Option	Option	Option	Option	Option
Manual Tailstock	Option	Option	Option	Option	No	No
Automatic Tailstock	No	No	No	Option	Option	Option
High Speed Fluting Kit for HSS	No	No	No	No	Option	Option
Selectable Coolant Outlets	No	Yes	Yes	Yes	Yes	Yes
Headstock Mounted Coolant Outlet	No	Yes	Yes	Yes	Yes	Yes
Rotary Headstock Dresser	No	No	Option	Option	Option	Option
Secondary Dresser	No	No	Option	Option	Option	Option
Auto-Stick	1 Stick (option)	1 Stick (option)	1 to 4 Sticks (option)	1 to 4 Sticks (option)	2 or 4 Sticks (option)	2 or 4 Sticks (option)
Touch Probe	Yes	Yes	Yes	Yes	Yes	Yes
Laser Probe	No	No	Option	Option	Option	Option
Ruby (contouring) Probe	No	No	Option	Option	Option	Option
Automatic Wheel Probe	No	No	Option	Option	Option	Option
iView (semi-automatic tool inspection)	Option	Option	Option	Option	Option	Option
iBalance	Option	Option	Option	Option	Option	Option
Dimensions	2075 mm (82”)W 1450 mm (57”)D 1990 mm (78”)H	2160 mm (85”)W 1530 mm (60”)D 1990 mm (78”)H	2269 mm (89”)W* 1446 mm (57”)D* 2015 mm (79”)H *with loader 2379 mm (94”)W 2168 mm (85”)D	2269 mm (89”)W 1446 mm (57”)D 2015 mm (79”)H *with loader 2379 mm (94”)W 2168 mm (85”)D	2527 mm (100”)W 1499 mm (59”)D* 2244 mm (89”)H *with loader 2272 mm (88”)D	2530 mm (100”)W 3070/3540 mm (121/139”)D (2/4 pallet versions) 2260 mm (89”)H +standalone robot controller (750Wx550Dx1100H)

*** TapX not included in table**

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