

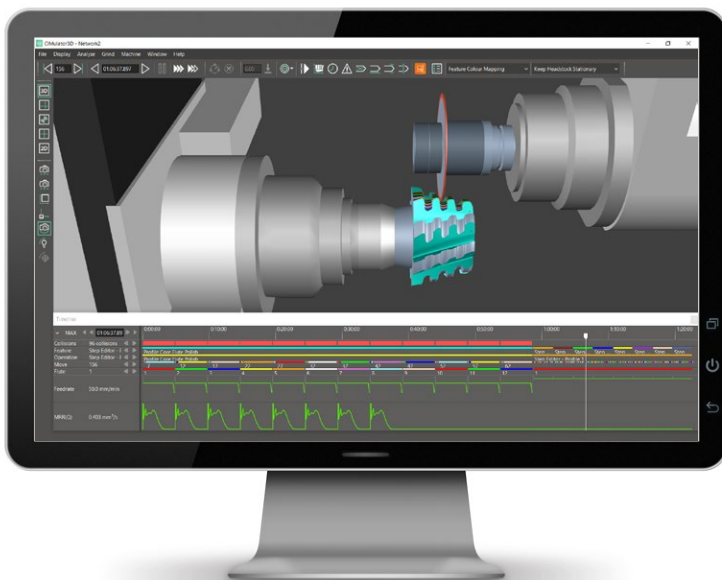
CIMULATOR



Save time with enhanced process verification and analytical tools for 3D CIMulation. The new CIM3D V9 is even easier to use.

CIMulator3D simulates the programmed tool path exactly as it would be ground on the machine. New tool programs can be verified for size, shape, machine clearance, cycle time estimates, and more. Additional machine models, work holding, and accessories are available in CIM3D V9 for the entire grinding sequence to be animated and collisions detected automatically.

Further enhancements of V9 include the introduction of process verification and analytical tools to get improved cycle time, better wheel and tool life, and automating many previously manual processes. This release also comes with updated icons, toolbars and an enhanced modern look with some upgraded functionality to make CIM3D more enjoyable and easier to use.



ENJOY THE UPDATED LOOK AND FEEL

- Brand new interface with new icons and colour scheme
- Better user experience and a modern look
- Customisable toolbars
- The animation toolbar has been replaced with a timeline

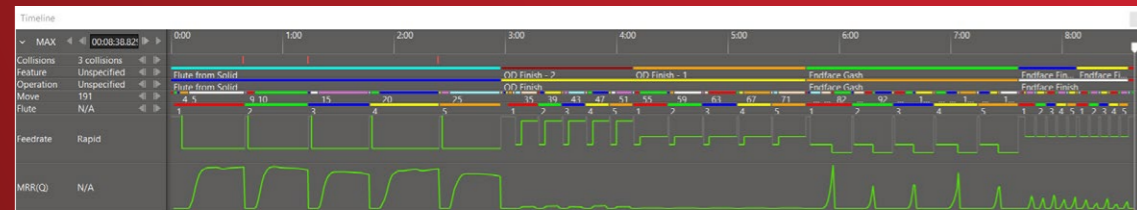
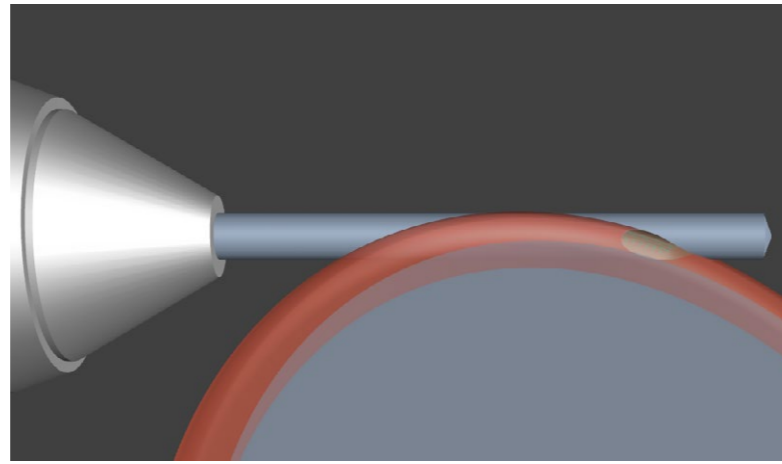
BENEFITS: Ease of use, improved visualisation and highly intuitive design

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CNC MACHINES

PROGRESSIVE MATERIAL REMOVAL

- Provides a realistic and unique view of the material removal process
- Allows visualisation of the grinding process during a move
- Allows the visualisation of the wheel imprint at any point of time
- Allows better visualisation of unexpected deviations in the wheel path

BENEFITS: Allows the user to view the state of the tool at any point of the grinding timeline



CLEAR VISUALISATION WITH THE TIMELINE PANEL

- Provides an interactive timeline of the grinding process that acts as an animation and analysis hub
- Acts as a central dashboard for all analysis rather than having it distributed in multiple places

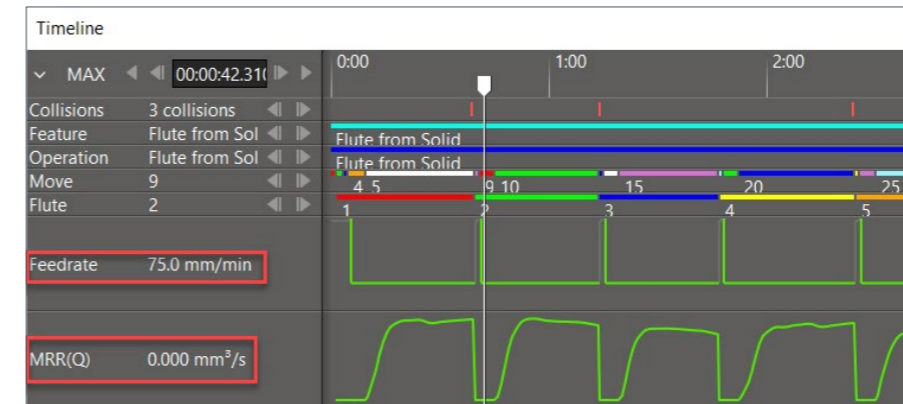
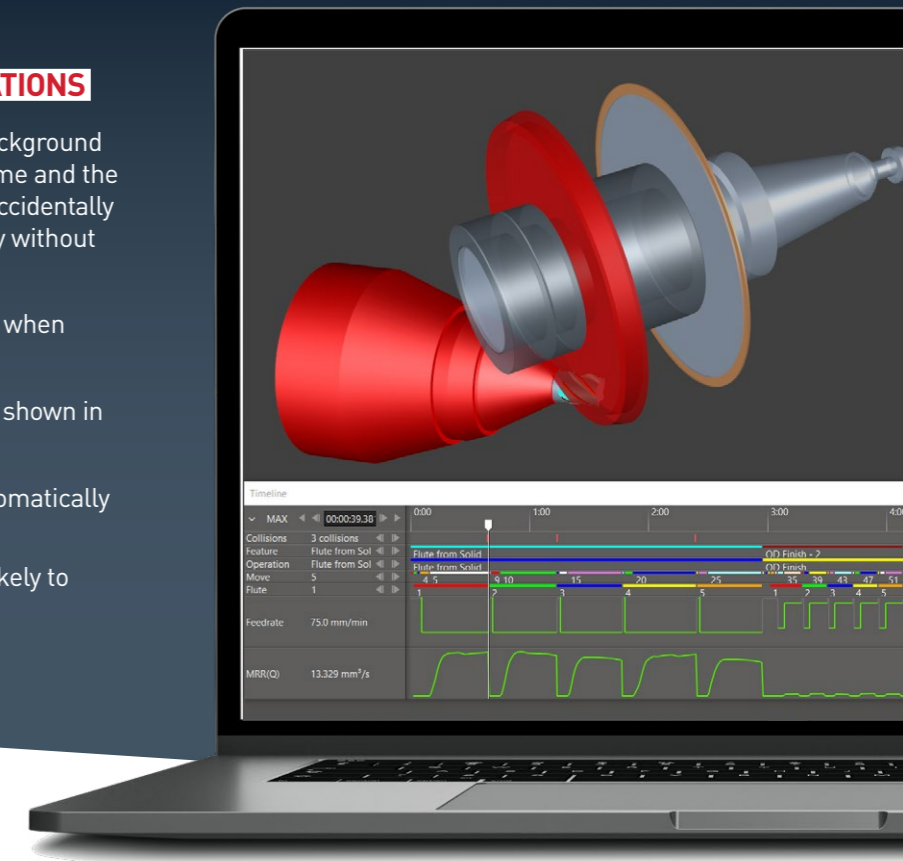
BENEFITS: Central analysis hub for quick and easy access to save time

SAVE TIME WITH BACKGROUND CALCULATIONS

Simplifies workflow by doing calculations in the background rather than having users kick this off. This saves time and the automatic display doesn't allow for errors that are accidentally missed. Some of the tasks calculated automatically without needing to be initiated by users are:

- **Collisions** - these are recalculated automatically when machine configuration is changed
- **Material removal rates** - calculated when row is shown in timeline to display the MRR graph
- **Tool balancing** - Tool balancing is calculated automatically when tool balancing dialogue is shown

BENEFITS: Simplifies workflow, saves time, less likely to miss collisions and reduced waiting time



MATERIAL REMOVAL RATE

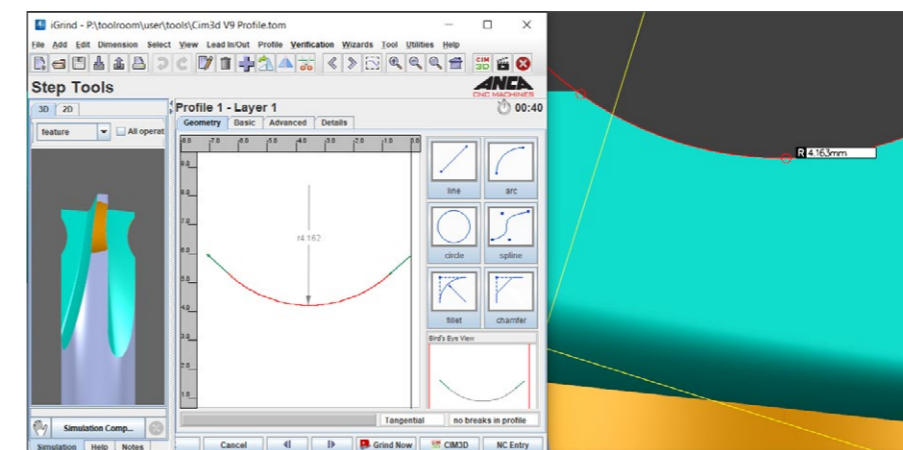
- Provides visualisation of the material removal rate in (Q) value to visualise jump in feedrates and is useful to normalise feedrates
- A chart is provided to visualise the material removal rate (Q)

BENEFITS: MRR can be used to optimise the feedrates for better wheel life and stable process

TOOL BALANCE ANALYSIS

- Provides complete information about the balance of a rotating tool
- The output includes the quality grade and imbalance of the tool
- This information is then passed on to ToolRoom to balance the tool effectively

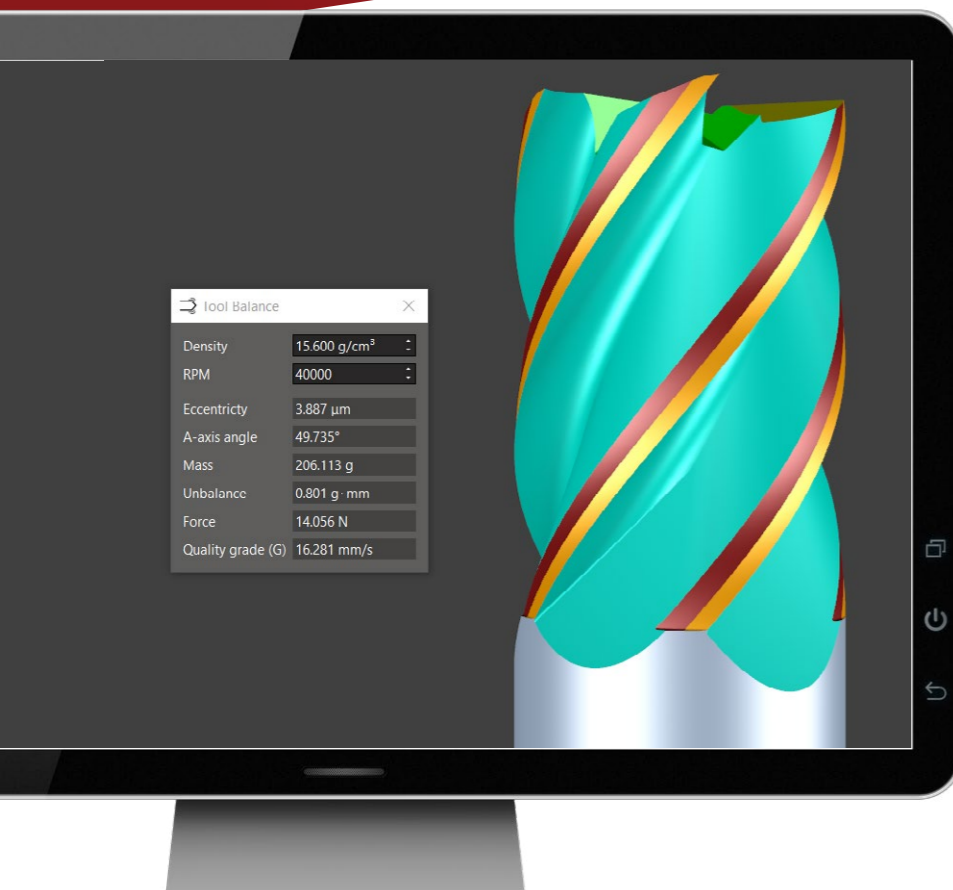
BENEFITS: Ability to manufacture high performance cutting tools

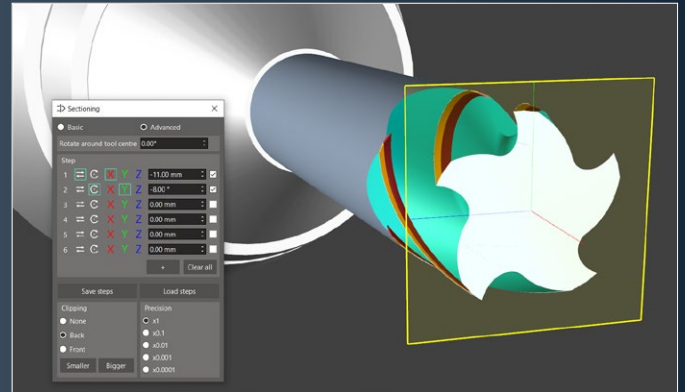
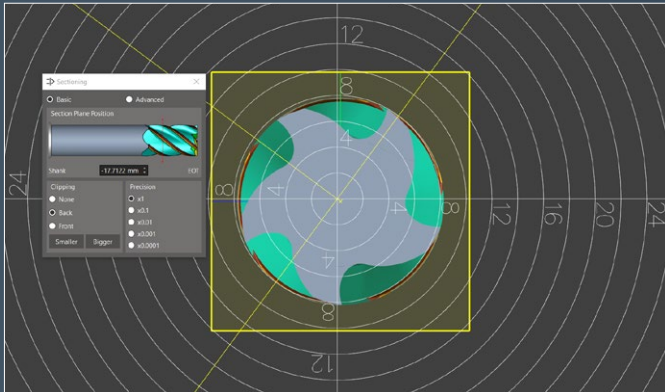


MEASUREMENT CAPABILITIES

- Allows the placing of three points to measure a radius
- Behaves like a 2D overlay - moves with the tool in translation, but not in rotation
- Handles the same use case as a shadowgraph
- Typically used to measure the cutting profile radii

BENEFITS: Quick and easy measurement methods to save time

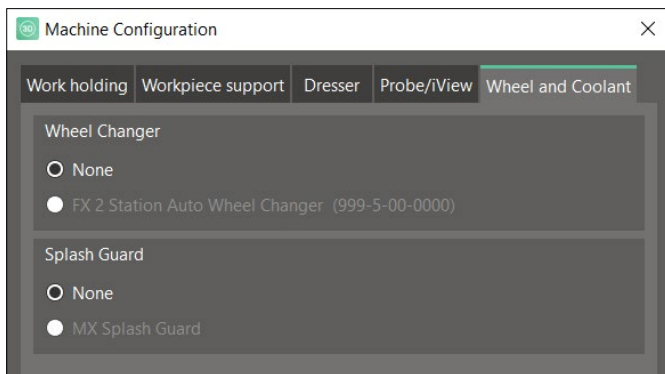




CHANGES TO SECTIONING PLANE DIALOGUE

- Multi-step sectioning plane orientations can now be viewed in the measurement view
- Basic and Advanced dialogues merged into a single dialogue

BENEFITS: Flexibility to measure any geometry on the cutting tools in any plane



MACHINE MODELS AND ACCESSORIES

- The 'wheel changer' tab has been renamed to 'wheel and coolant'
- Option for MX splash guard for better collision analysis
- FX5 Wheel Changer added to detect collisions with changer gripper
- MX and TX machine models have been updated to use the current colour scheme (as per V8 updates)

BENEFITS: Additional accessories for improved collision detection analysis

AUTOMATIC UPDATES

- Provide a notification when a new update for CIM3D becomes available
- A simple one-click update which installs and starts the latest version of CIM3D
- Hosted in the cloud to make it easily accessible for customers

NEW LICENSING

- Licensing system which includes both software and hardware licensing
- Available on hardware dongles to transfer between PCs

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