INSERTS**PRO**
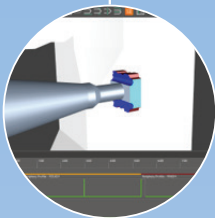
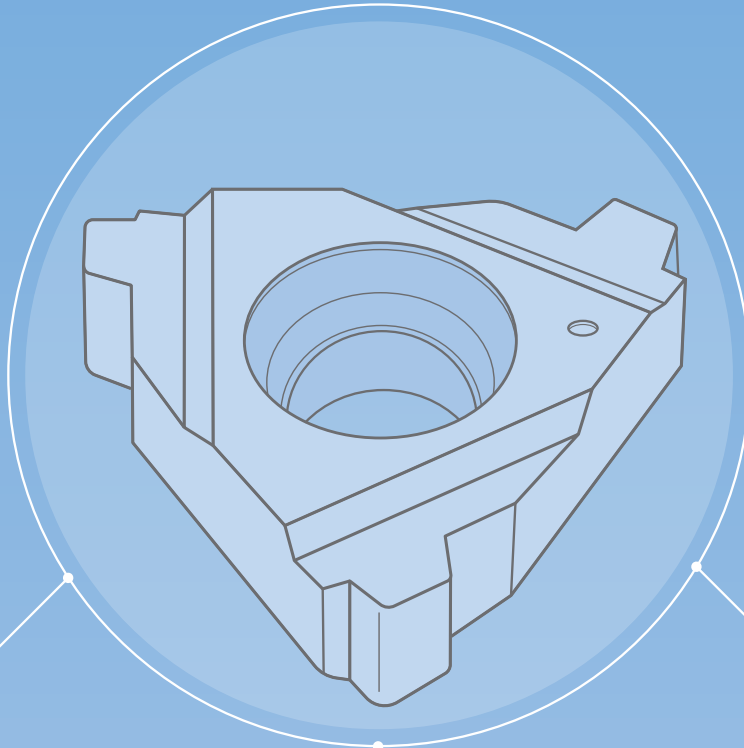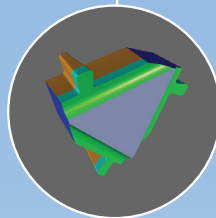## INSERT GRINDING WITHOUT LIMITS

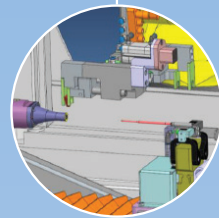**SOFTWARE-CONTROLLED DESIGN WITH ADVANCED SIMULATION**

✓

First-time right production

FULL FLEXIBILITY IN CLAMPING, ALIGNMENT, AND COMPENSATION WITH MULTIPLE CUTTING EDGES

✓

Cost-effective manufacturing

HIGH-QUALITY INSERT PRODUCED ALL IN ONE PACKAGE USING OPTIMISED GRINDING

✓

Rapidly ready for precision grinding

ANCA
CNC MACHINES

INSERTS**PRO**

INSERTSPRO, ANCA'S SPECIAL INSERTS GRINDING PACKAGE, IS A FULLY FLEXIBLE, HIGH-PRECISION SOFTWARE SOLUTION THAT EMPOWERS CUTTING TOOL MANUFACTURERS WITH A UNIVERSAL APPROACH TO INSERT GRINDING—COMBINING ADVANCED SIMULATION, AUTOMATION, AND OPTIMIZED STRATEGIES TO DELIVER UNMATCHED QUALITY, EFFICIENCY, AND PROFITABILITY - ALL IN ONE USER-FRIENDLY PACKAGE.

PRECISION AND PROFITABILITY IN ONE PACKAGE

Reduce costs, increase efficiency, and boost productivity with faster setups, optimized grinding strategies, and minimal operator intervention. InsertsPRO helps manufacturers achieve more with less—maximising output and profitability in a single, streamlined solution.

UNMATCHED FLEXIBILITY

Easily produce special inserts with automated workflows and full process control. InsertsPRO supports all insert types and enables rapid changeovers, making it ideal for manufacturers demanding versatility, speed, and reduced setup time.
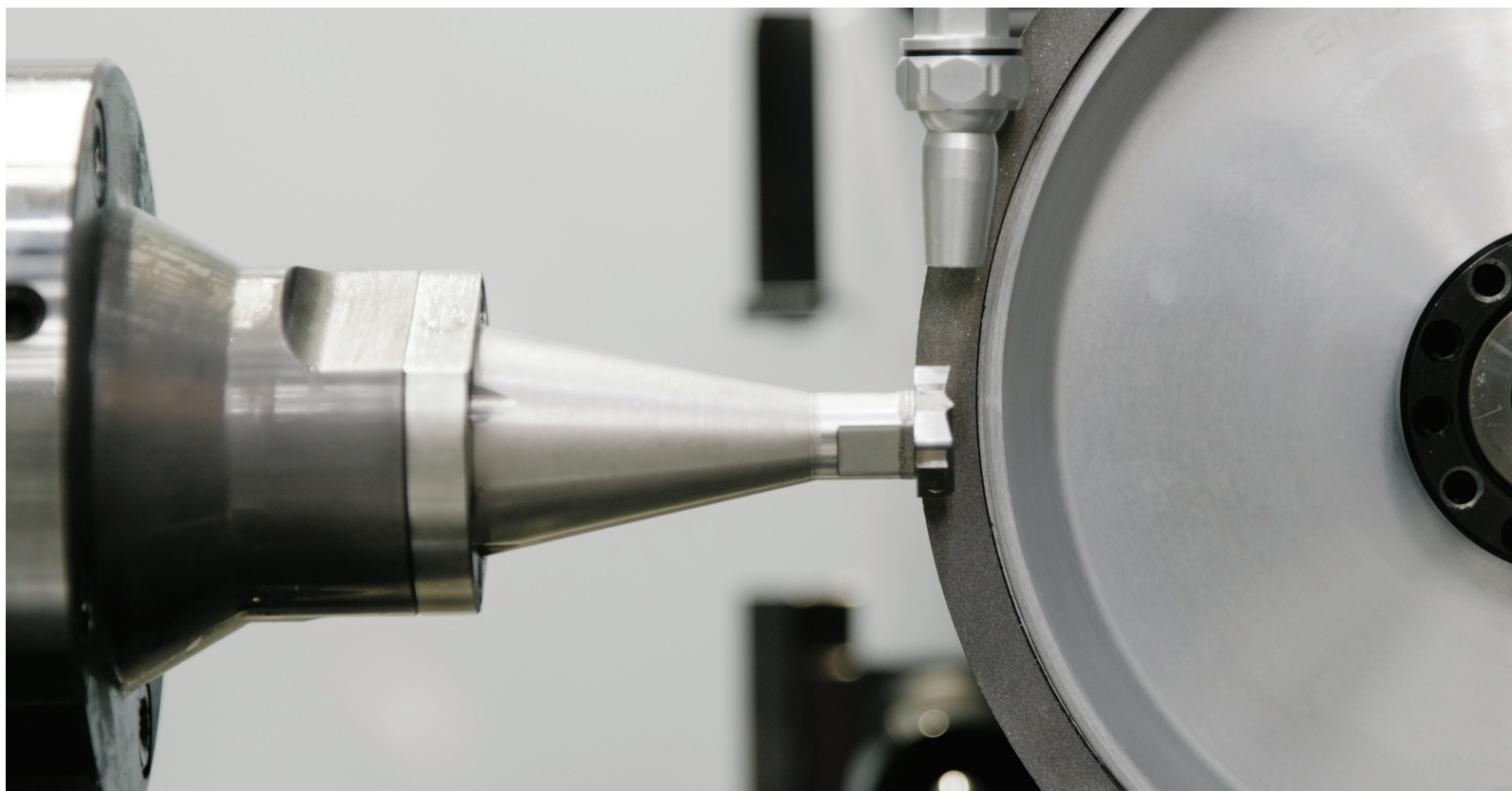
FUTURE-PROOFED PRODUCTION

Leverage Industry 4.0-ready software, advanced simulation, and feature-rich automation to stay ahead of the curve. InsertsPRO ensures first-tool-right production, reduces costs through smart grinding, and evolves with your production needs.

USER-FRIENDLY AND UNIVERSAL SOLUTION

A complete, intuitive platform designed for seamless integration into existing processes. With support for all insert geometries, visualization tools, and flexible clamping and alignment, InsertsPRO simplifies complex grinding—no matter the application.
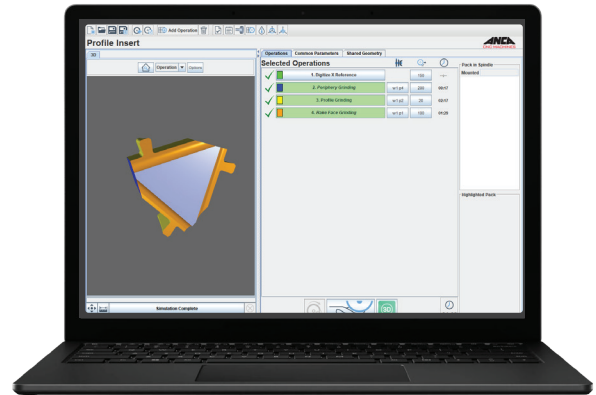
PRECISION-ENGINEERED FOR PREMIUM QUALITY

Built for manufacturers who demand excellence, InsertsPRO delivers superior tool performance and consistently high-quality results. From threading tools to custom inserts, achieve premium outcomes with software precision at every step.
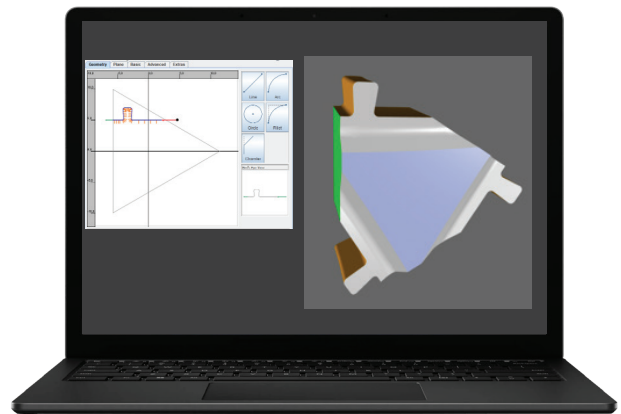
FINISHED PART SIMULATION

- Virtually validate your grinding process before production.
- Simulate the finished insert to check insert geometry, grinding wheel setup, toolpath, and tolerances - to ensure accuracy, surface quality, and zero collisions.
- Minimise setup time, reduce waste, and eliminate costly errors.
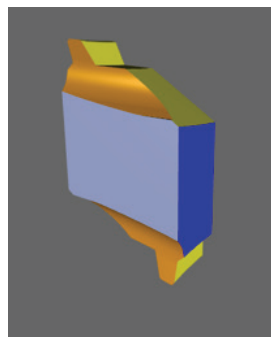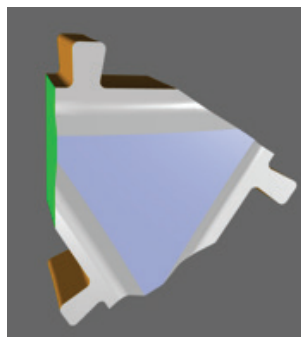

PROFILE DEFINITION

- With full design flexibility, define profiles using the intuitive Profile Editor or import via DXF files.
- An overlay with a created shape ensures correct alignment and geometry matching.
- The trim function allows fine adjustments to the profile, while flexible lead-in and lead-out options enable smooth transitions during grinding.
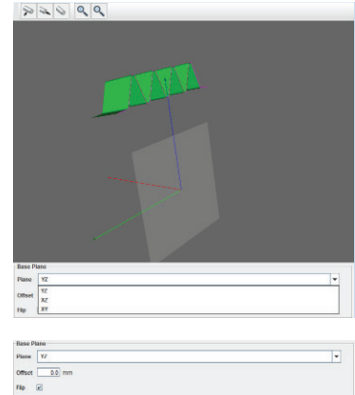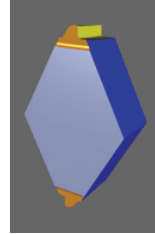

MULTIPLE CUTTING EDGES

- Design complex inserts with multiple cutting edges.
- Gain precise control over each edge's geometry and position to enhance tool performance and application-specific functionality.
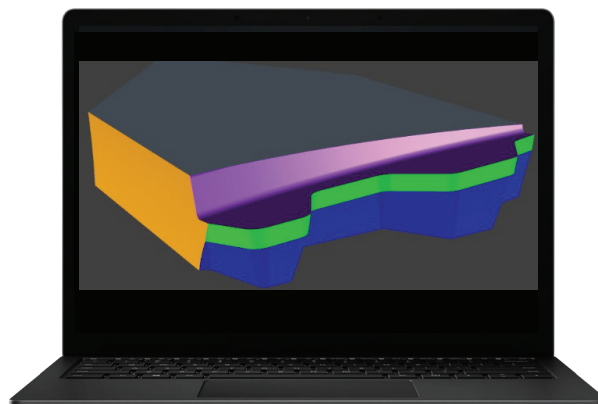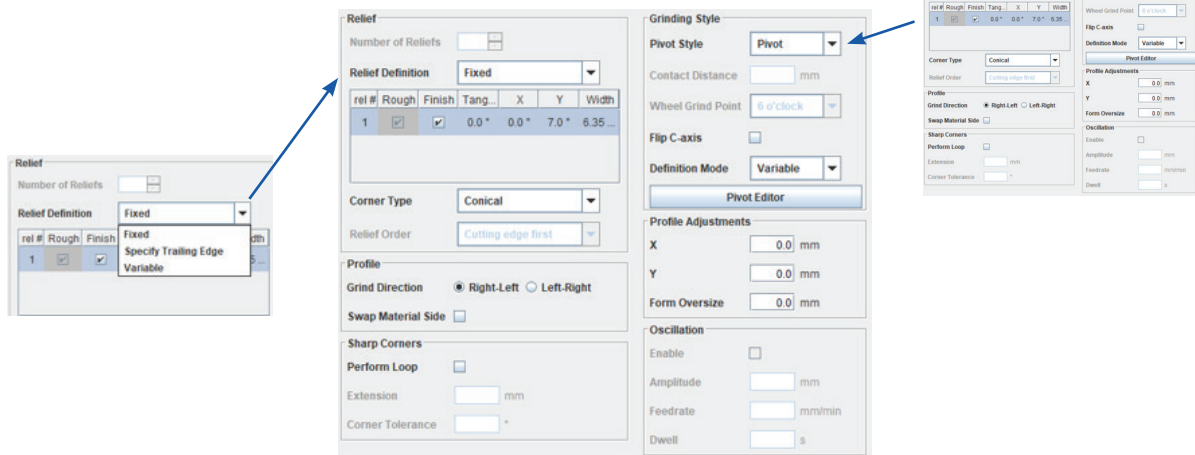
INSERTSPRO

CLAMPING ORIENTATION

- Choose from six clamping orientations to perfectly align inserts for optimal grinding.
- Accurately grind both relief and rake faces, apply advanced transformations, and fine-tune Z-direction offsets for precision and flexibility.
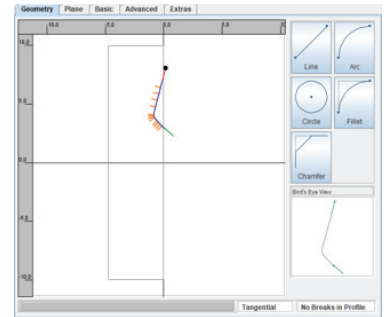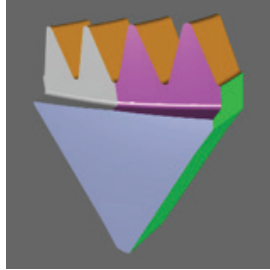

RELIEF FUNCTIONALITY

- Achieve optimal results across diverse tool geometries and cutting conditions with advanced grinding controls.
- Define multiple reliefs, tailor corner types, and apply diverse grinding styles - compatible with a wide range of wheel types.
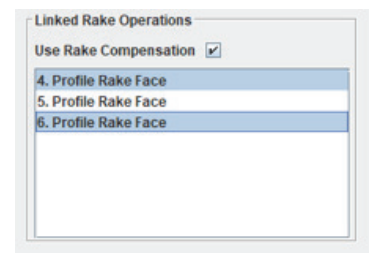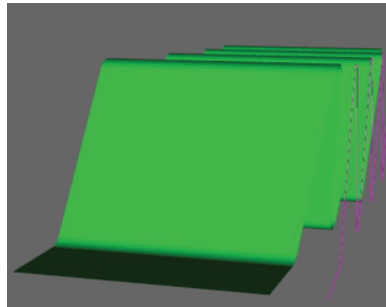
PROFILE **RAKE FACE**

- Design and edit comprehensive profile rake faces with ease using the Profile Editor or by importing DXF files.
- Support for overlay with created shapes, uses standard wheels, and multiple rake face definitions ensures precision and versatility.
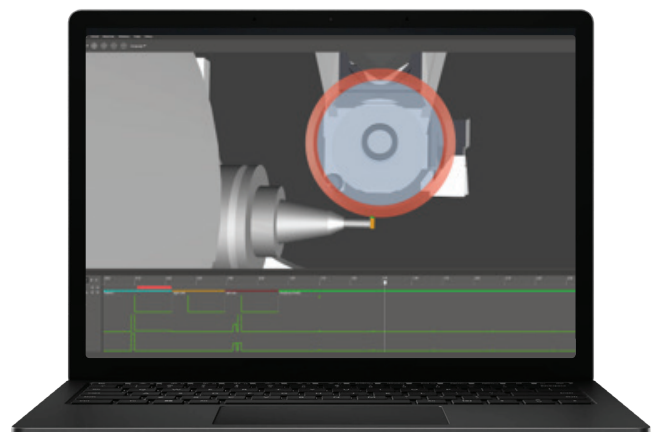

RAKE FACE COMPENSATION

- Ensure accurate adjustments with automatic calculation for rake face compensation.
- Supports multiple rake faces and enables DXF file overlay comparison for precise alignment and verification.

CIM3D

- Enhance programming confidence with machine-level simulation.
- Features include process analysis and optimisation to improve efficiency, collision detection for safe operation, and various measurement options to verify accuracy.
- Import custom clamping fixtures for a realistic and flexible simulation environment, and optimised setup.

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