



# Eureka G-Code

Verification and optimization of ISO programs for  
the mold sector



## Independent simulation

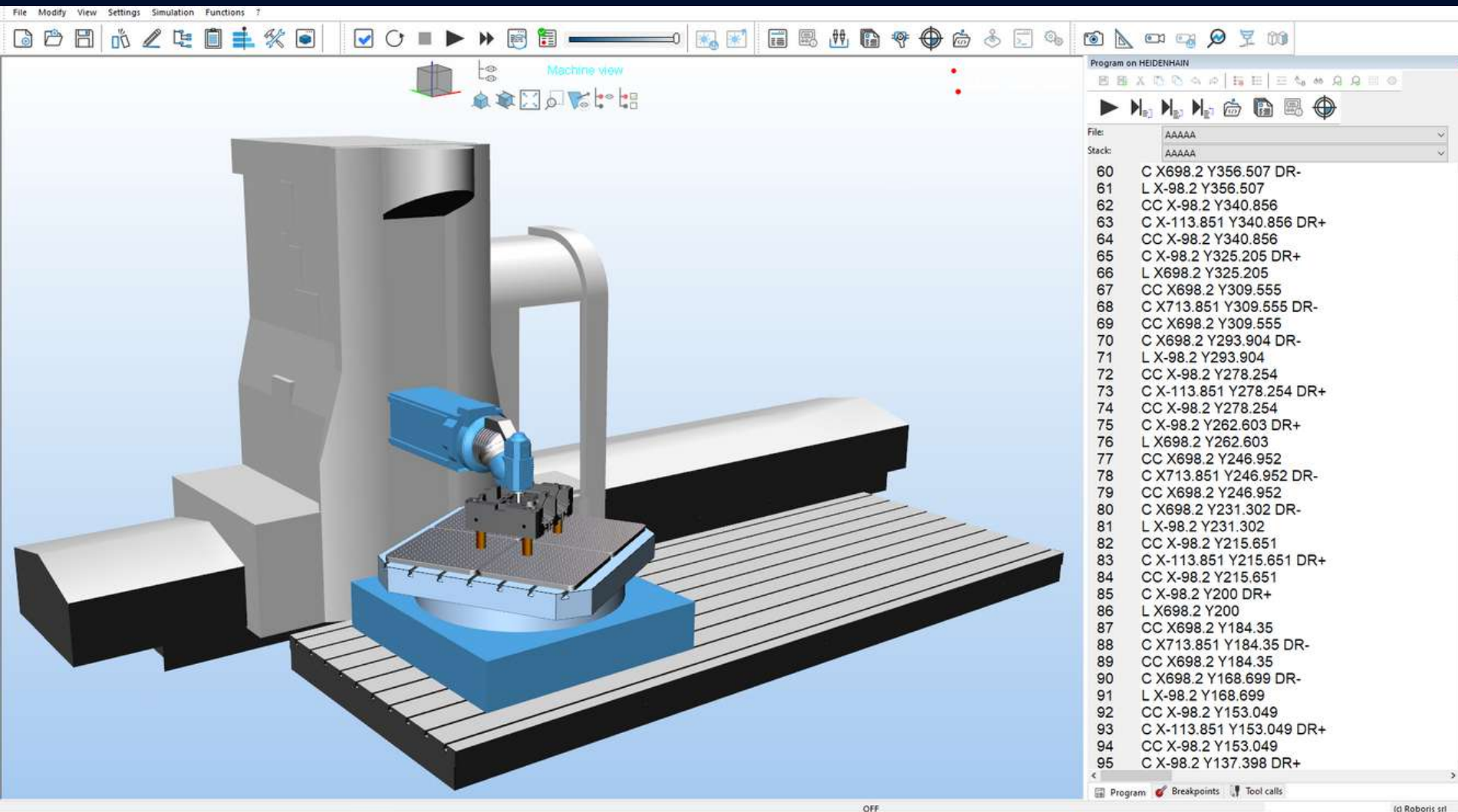
With Eureka G-code you get an independent G-code simulation that's 100% reliable. You'll avoid programming errors that cause collisions and costly production downtime and eliminate late deliveries.



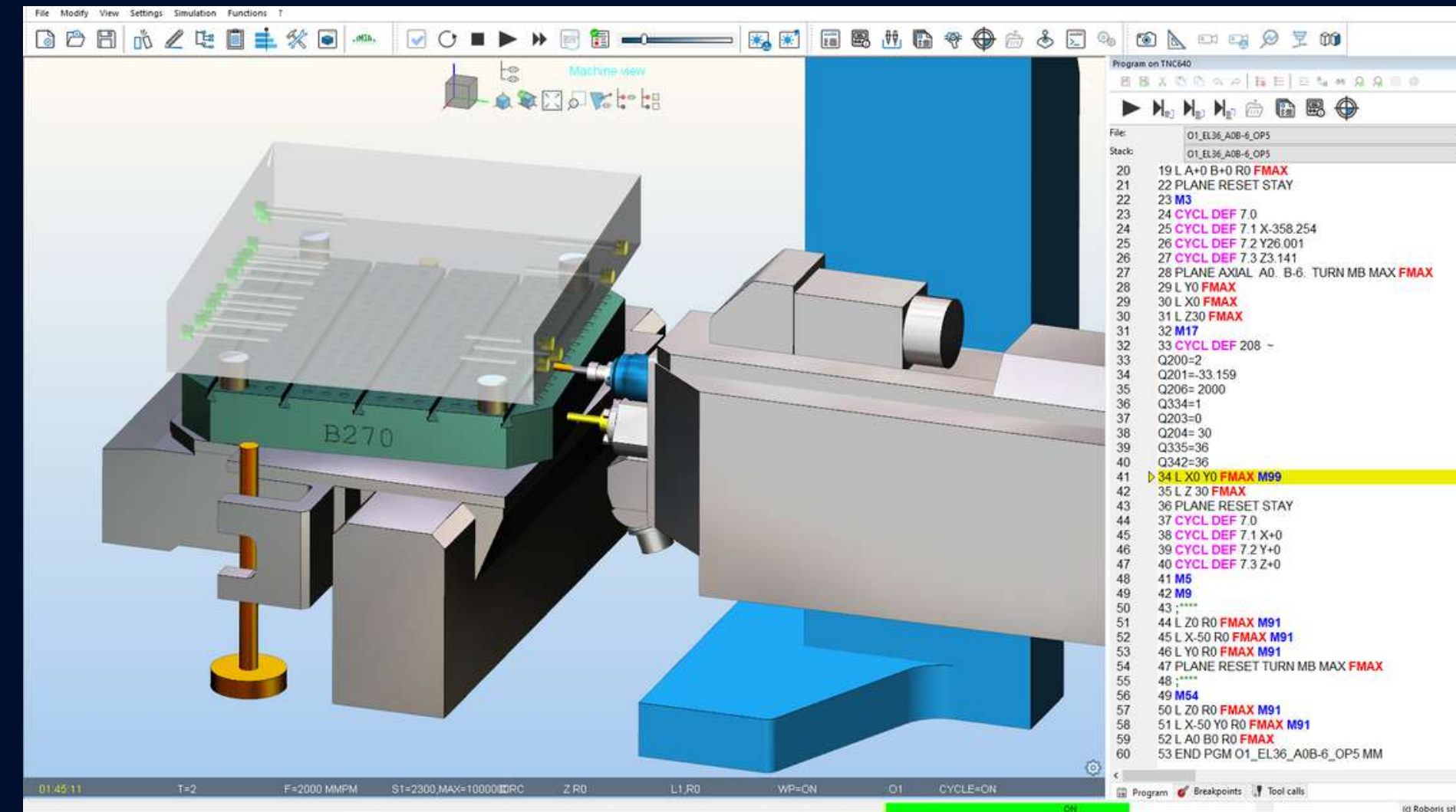


# Reliable digital twin

Reliable digital twin for any type of kinematics and controller, including machines with greater than 5 axes. You will have a complete collision check, including check between cutting edge and finished piece, and between tool holder and stock being machined, near-miss control between cutting edge and equipment, check for pre-holes for tapping and a verification of the limit switches.



Digital-twin di fresatrici con più di 5 assi

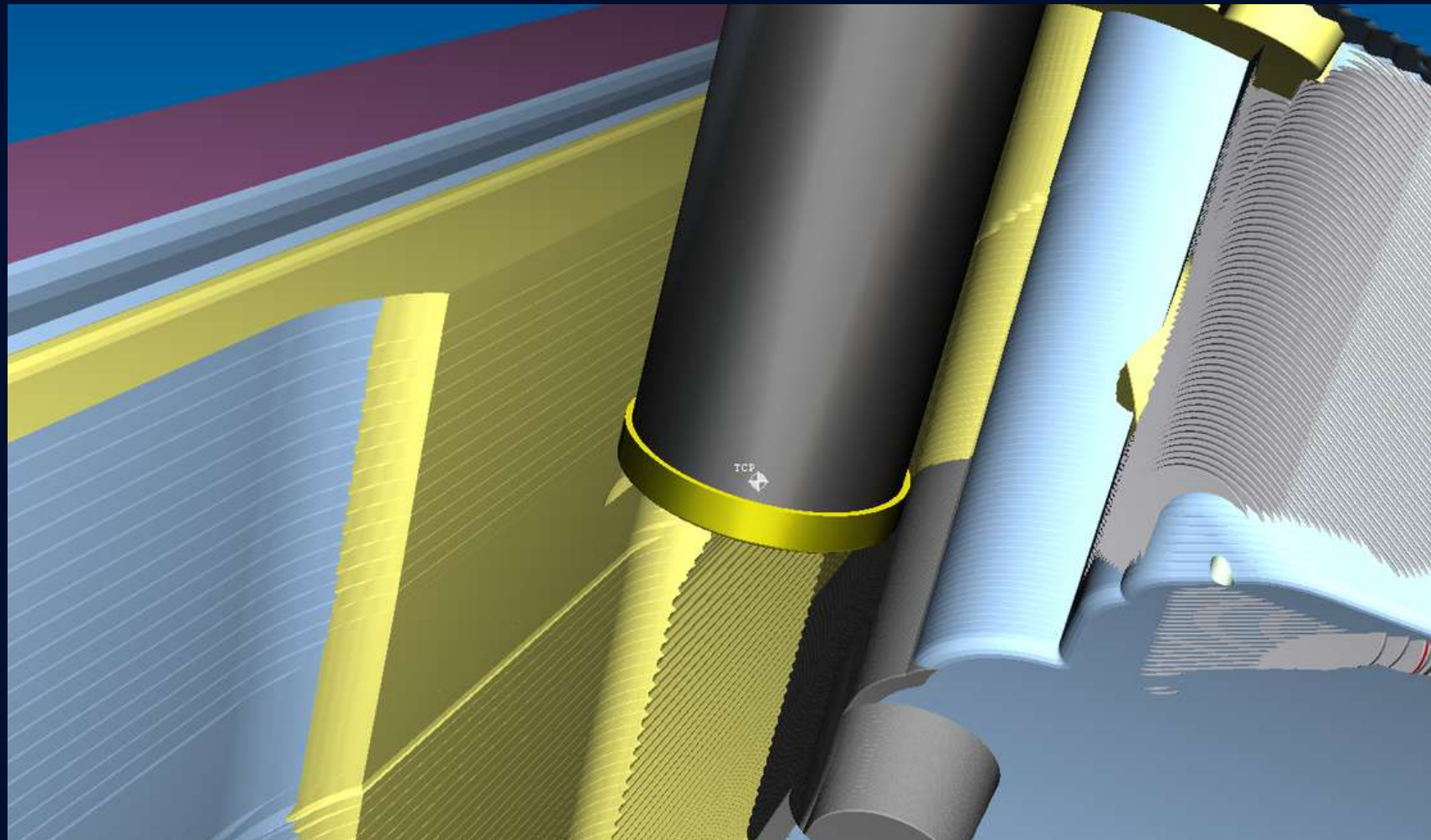
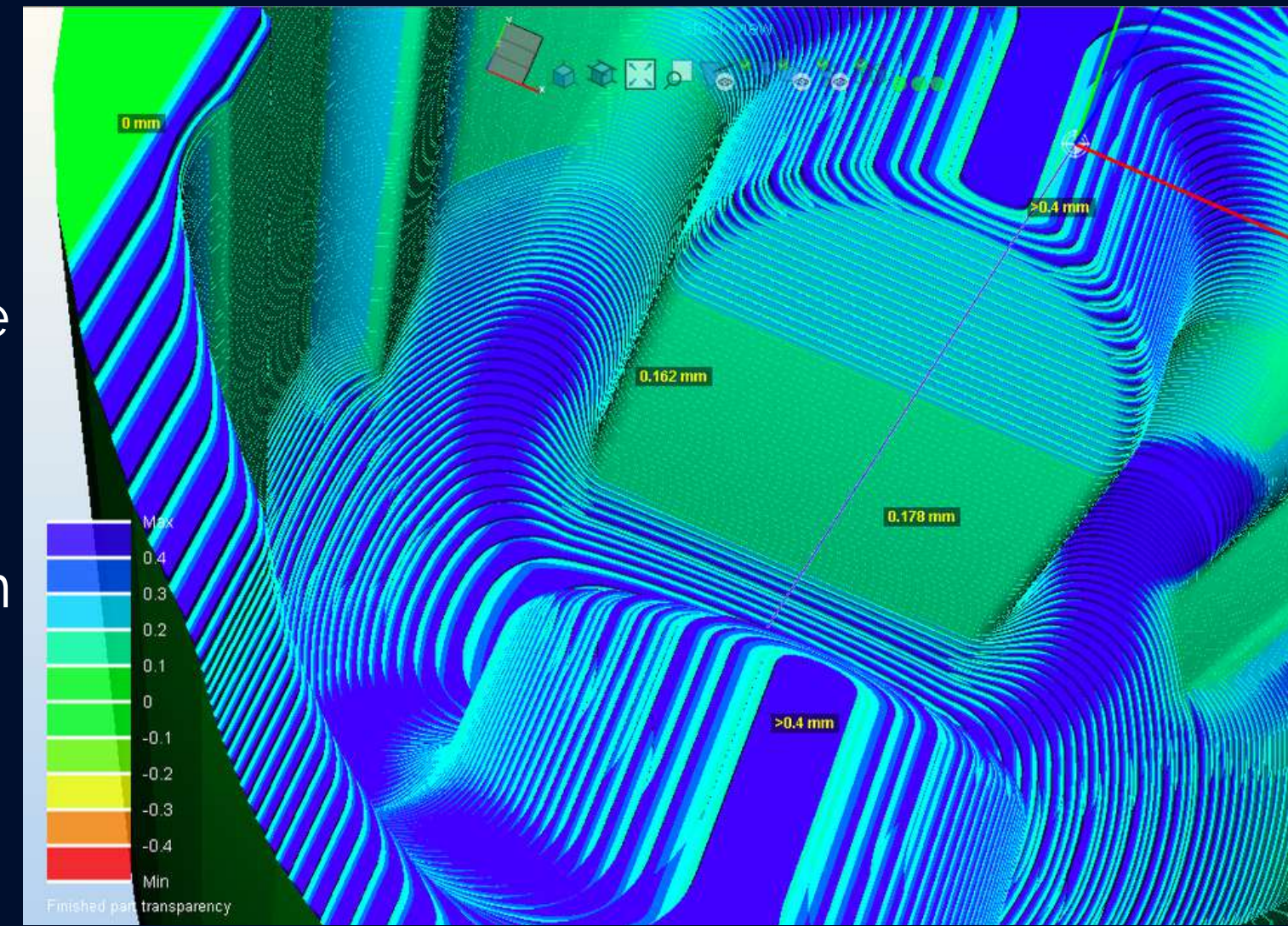


Digital-twin di macchine per foratura profonda  
con simulazione appoggio boccola



# Super accurate comparison

With Eureka you can have highly accurate comparison between machined piece and 3D of the finished one. This tool allows you to compare the CAD model of the finished product directly with the model of the machined blank obtained in simulation to identify and measure any differences, identifying gouges, excesses of material or other inconsistencies.



## Cutting conditions check

For example, keep under control the volume removed in the unit of time for long tools that tend to vibrate. Ramp removal control for insert tools.



# Eureka Chronos

**The Eureka Chronos module optimizes the cutting conditions of the tools by modulating the feed rate.**

Thanks to an innovative method patented by Roboriz, the optimization process is fully automated and the results are extraordinary.

On average, Eureka Chronos users see a reduction in machine time of more than 15%, 2 times greater tool life and a smoother machining with less chatter.

Eureka Chronos is available both integrated with Eureka G-Code for those interested in verifying and optimizing programs, and as standalone product for those needing optimization only.



# The case study

**Sector:** production of automotive molds

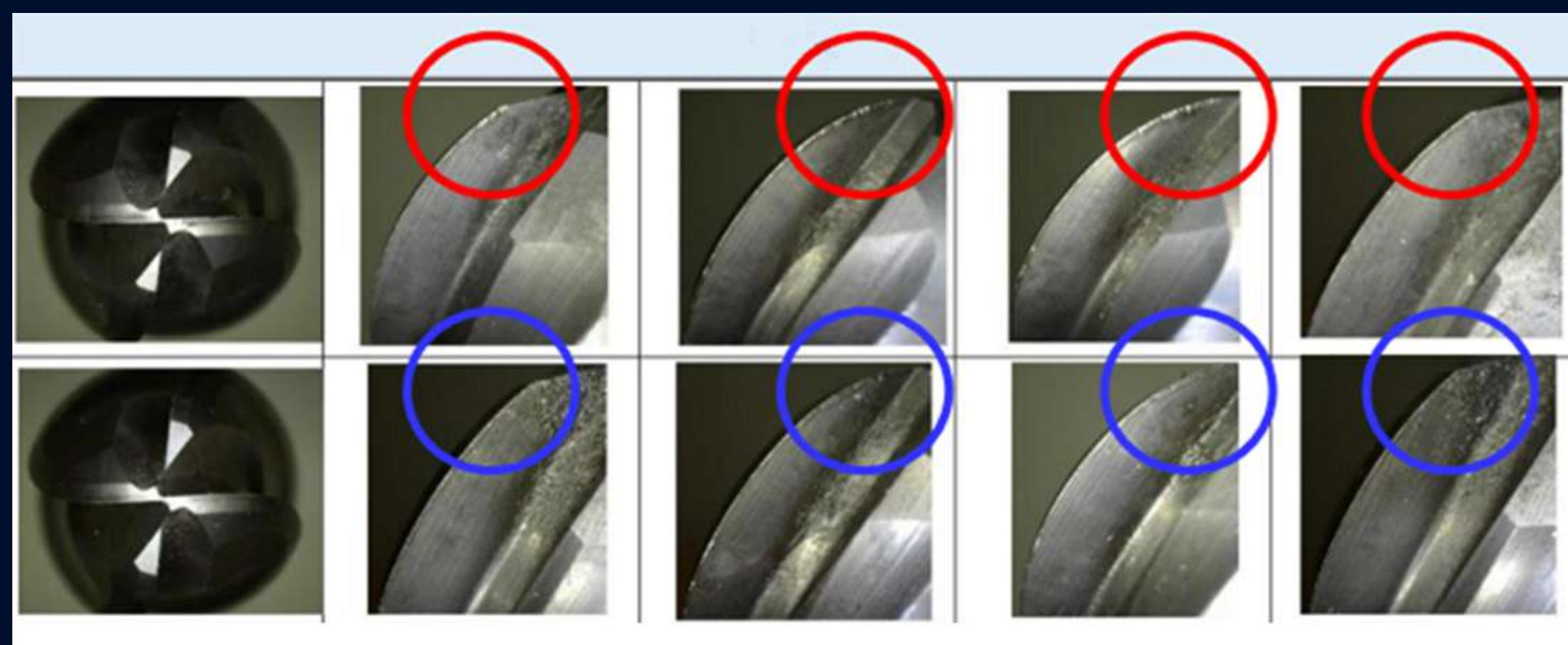
**CNC:** Mitsui vertex 75X II

**Material:** Daido DH31-S (HRC 48 ± 1)

**Blank size:** 308mm × 258mm × 95.5mm

Processing time	<u>Without</u> Eureka Chronos	<u>WITH</u> Eureka Chronos	
Roughing	70 min	55 min	▼ 21%
Semi finish	29 min	19 min	▼ 35%

Tool wear	<u>WITH</u> Eureka Chronos
Roughing	REDUCED ▼
Semi finish	EQUAL =





# Interfaceable

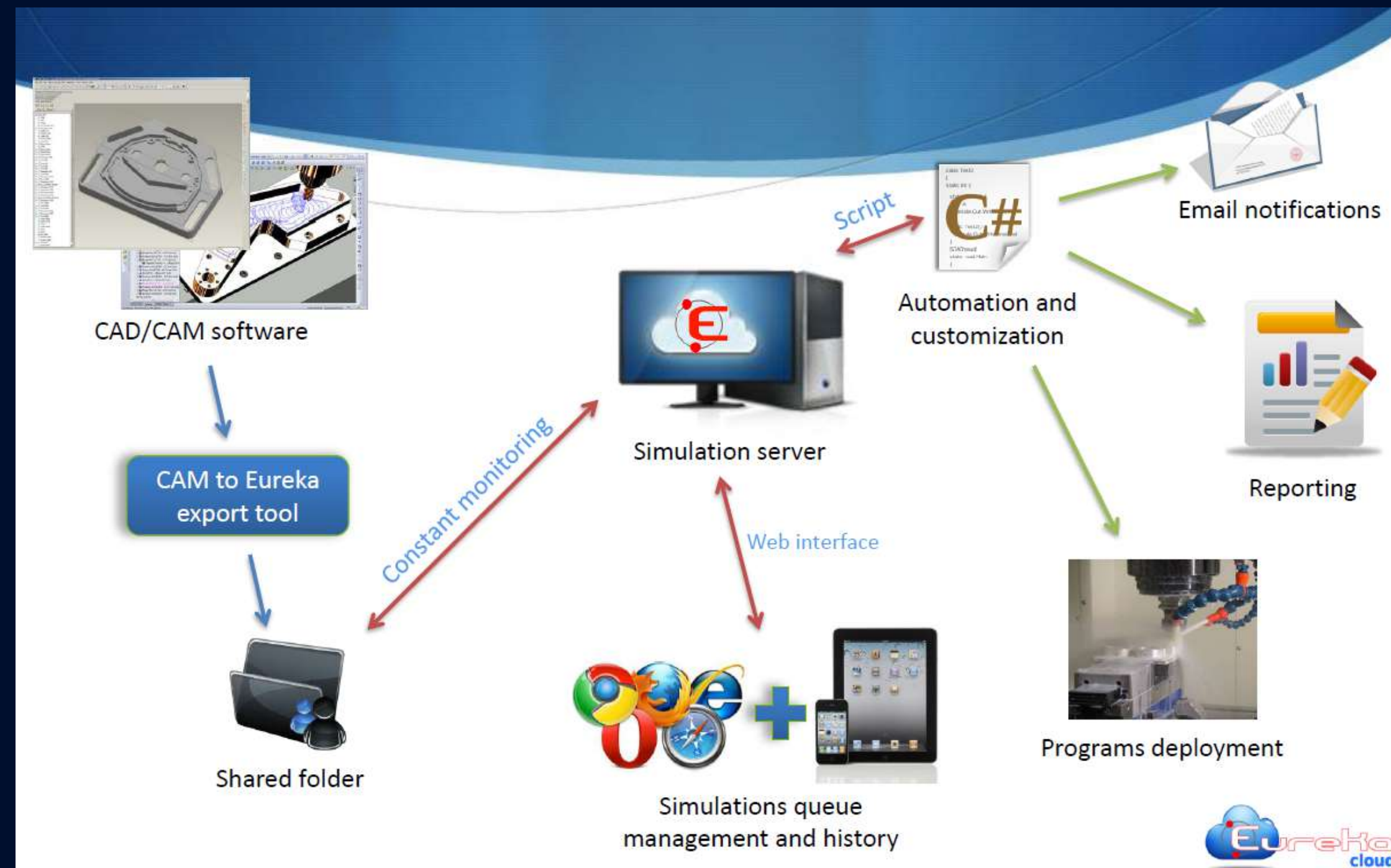
Thanks to the interfaces available for the major CAD / CAM systems and the main tool managers, it is possible to transfer blank, finished, equipment, programs and, above all, tools in a few clicks of the mouse.



# Automated

With Eureka Cloud it is also possible to implement an automatic simulation service in the company. CAM operators will only have to worry about generating the files with the interface and sending them to the service.

Eureka Cloud will take care of distributing the simulations to be done on the networked PCs, scheduling them at the appropriate times, recording the entire history of the simulations in the company database and notifying the results when the simulations are completed.



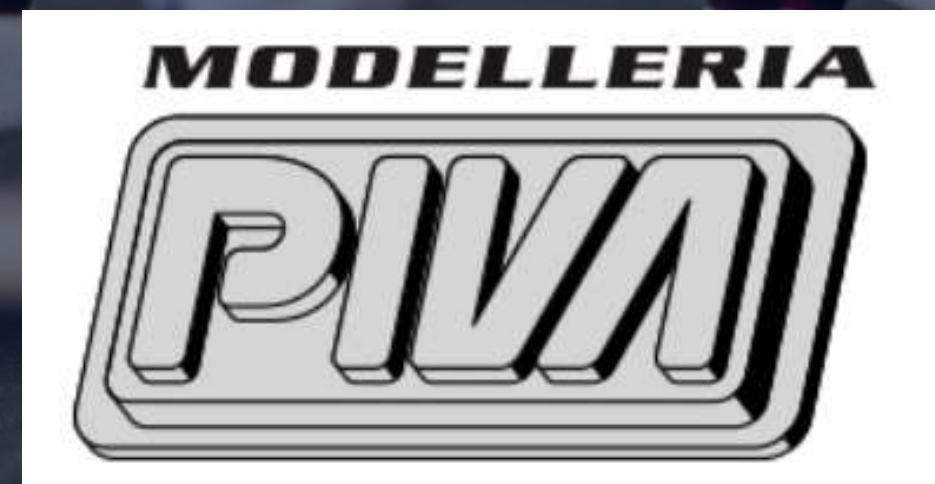


Some customer

Eureka  
G-Code



Plastica





## About us

For over **15 years**, Roboris has been a leading developer of manufacturing software solutions. **Eureka Virtual Machining** is an innovative suite of software products for the simulation and optimization of NC programs and industrial robots.

Roboris software is designed and developed **100% internally**, allowing for in-depth customization at any level.

Over the years **Roboris has earned a reputation of excellent customer service**, both towards our direct customers and our partners. We strongly believe that **we can provide our Customers excellent tools to increase their productivity** only combining leading-edge software technology with a constant attention to our users' needs.





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