CIMCO
WHEN RELIABILITY MATTERS

MACHINE SIMULATION

NC program simulation on 3D machine models

CIMCO is an industry leading developer of software solutions for Computer Integrated Manufacturing and Industry 4.0. Our software suite includes advanced CNC editors, simulation software, DNC communications software, Manufacturing Data Collection for real-time monitoring and analysis of shop floor productivity, and Manufacturing Data Management for managing, organizing and securely storing production related data.

Since 1991, CIMCO has helped companies worldwide improve their competitive edge by providing reliable software and outstanding on-site assistance. Our network of CAD/CAM/CNC resellers and consultants have sold more than 100,000 licenses worldwide and we hold great pride in continuously supporting and meeting our customers' demands by developing intelligent and competitive solutions.

THE FULL SUITE OF CIMCO SOFTWARE

CIMCO Edit
Full-featured NC editing, simulation and machine communication tool. Powerful add-ons available.

CIMCO DNC-Max
The leading solution for NC program transfers to and from CNC machines. Compatible with machines and files.

CIMCO MDC-Max
Real-time manufacturing data collection. Optimize use of resources, and streamline processes.

CIMCO NC-Base
Organize, manage, and protect part programs and related production documents efficiently.

CIMCO MDM
Complete solution for manufacturing document management. Integrates with CAD/CAM systems from leading vendors.

CIMCO Scheduler
Production scheduling and order tracking solution. Improve delivery times and use of machines and resources.

CIMCO Machine Simulation
Prove-out your NC program on a 3D CNC machine model. Automatic checks for collisions, out of limit moves and more.

CIMCO CNC-Calc
A basic CAD/CAM. Draw 2D geometrical contours and lay out toolpaths for milling and turning machines.

CIMCO Mazatrol Viewer
Enables CIMCO Edit to read, preview and print Mazatrol binary files for both milling and turning.

CIMCO Teachware
E-learning solution that introduces students to working with digital machine tools.

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CIMCO HEADQUARTERS AND MAIN TRAINING FACILITY ARE LOCATED IN THE DANISH CAPITAL COPENHAGEN. THIS IS THE BASE OF OPERATION FOR THE SALES AND SUPPORT TEAM. OUR TECHNICAL SERVICE STAFF TRAVELS WORLDWIDE AND HAS LOCAL OFFICES IN SELECT COUNTRIES.

LOCAL OFFICES / RESELLERS WORLDWIDE

EUROPE

AUSTRIA	FINLAND	NETHERLANDS	SLOVAKIA
BELARUS	FRANCE	NORWAY	SLOVENIA
BELGIUM	GERMANY	POLAND	SPAIN
BULGARIA	HUNGARY	PORTUGAL	SWEDEN
CROATIA	IRELAND	ROMANIA	SWITZERLAND
CZECH REPUBLIC	ISRAEL	RUSSIA	TURKEY
DENMARK	ITALY	SCOTLAND	UKRAINE
ESTONIA	LATVIA	SERBIA AND MONTENEGRO	UNITED KINGDOM

SOUTH / NORTH AMERICA

BRAZIL	USA
CANADA	VENEZUELA
CHILE	
COLOMBIA	
COSTA RICA	
ECUADOR	
MEXICO	
PERU	

ASIA / MIDDLE EAST / OCEANIA

AUSTRALIA	SINGAPORE
CHINA	SOUTH AFRICA
HONG KONG	SOUTH KOREA
INDIA	TAIWAN
INDONESIA	THAILAND
JAPAN	UNITED ARAB EMIRATES
MALAYSIA	VIETNAM
NEW ZEALAND	
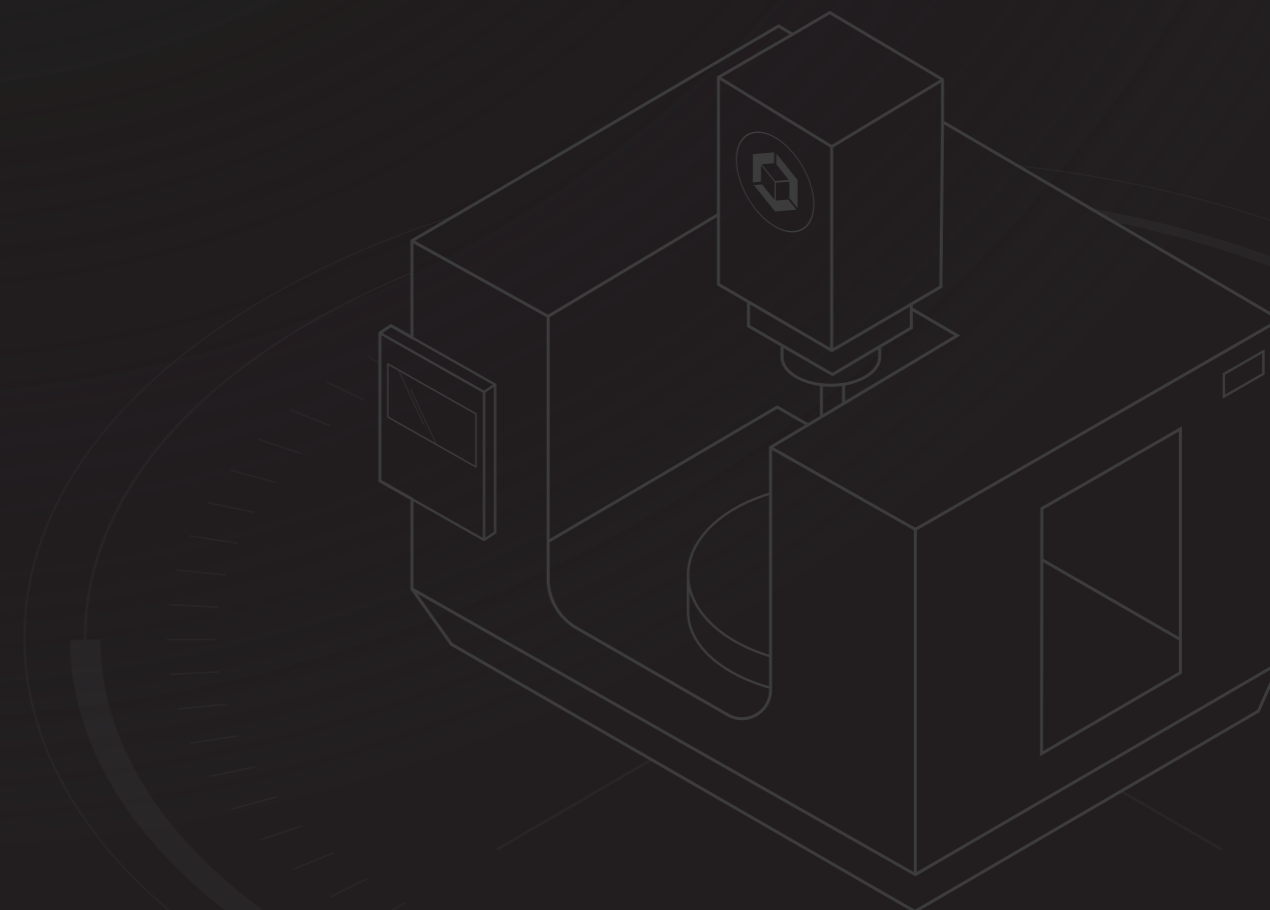
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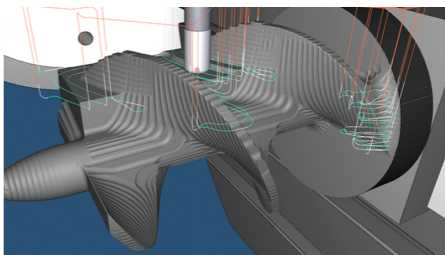
Full control of simulation

Simulate your NC program from any angle or distance using zoom, pan, and rotate. Adjustable speed in both directions. Jump to next/previous tool, cutting pass, or move.


Stock material removal

High and low tolerance options for simulation of stock removal. Includes options to define stock, or import your stock as an STL file. The resulting stock can be exported as an STL file.
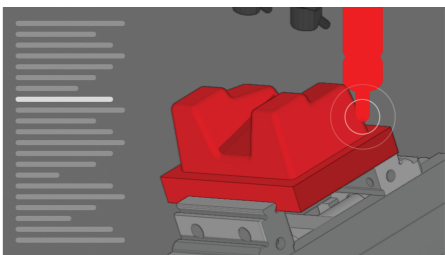

Inspection

Side-by-side display of code, simulation and Simulation Report. Components turn red when colliding and collisions, out of limit moves and errors are recorded in the Simulation Report.
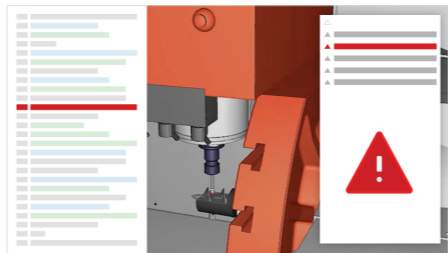

Simulation Report

The Simulation Report shows errors in your NC program. Select an error and jump to the corresponding line. Modify the code and the Simulation Report verifies that the problem is resolved.
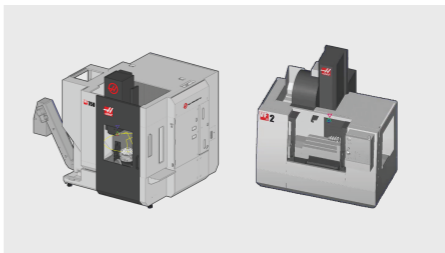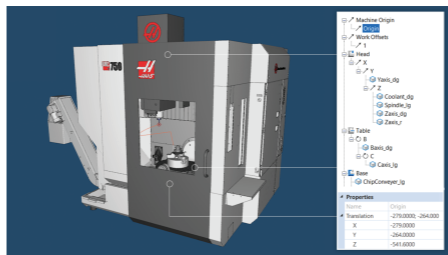

Downloading Machines

Download and install pre-configured machines from vendors such as Haas directly from within CIMCO Machine Simulation. Or build your own using the Machine Configuration Editor.
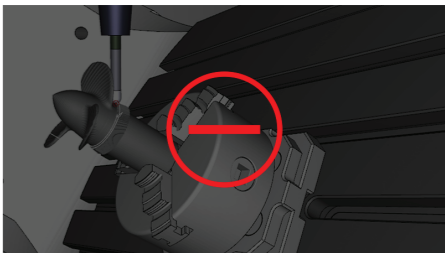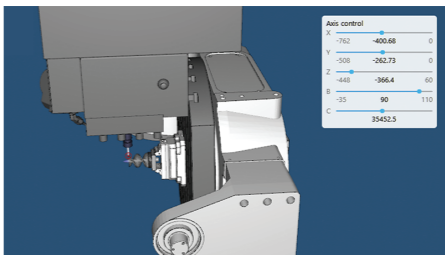

Stop Conditions

Automatically pause the simulation when certain triggers occur, such as over travel limits, tool changes and different types of collisions.


Geometry Manager

A machine-tree shows the machine's definition. Properties of components such as head, table, and workpiece can be viewed, or visibility toggled.

Axis Control

Ensure that all of the axes fall within the travel limits of your machine. Any axis that runs over its travel limit is highlighted in red. Use sliders to easily make adjustments and see it update in real time.
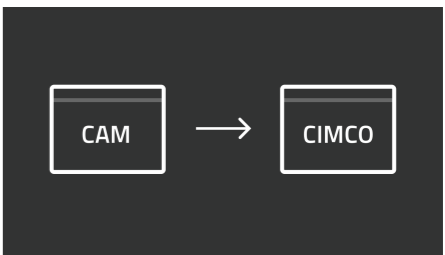
CAM integrations

Transfer tool, holder and geometry data from Mastercam, SolidCAM, or other supported CAM systems. Changes made in your CAM system are instantly reflected in CIMCO Machine Simulation.

✓ **Navigation**
Auto-generate an operation structure from your NC code.

✓ **Variable Watch**
Track both the initial and current state of variables in your NC program.

✓ **Stock Compare**
Compare stock to design model to easily identify inaccuracies.

✓ **Free online courses**
Learn about milling and turning, trigonometry, NC code, and more.

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Visit our website to discover many more features, videos or to download our free, 30 day trial version of CIMCO Machine Simulation.