

HELITRONIC TOOL STUDIO 2.1 R3



New capabilities

The current release version 2.1 R3 includes new possibilities for the CAD/CAM grinding software HELITRONIC TOOL STUDIO. Our customers can use the version 2.1 R3 for more efficiency and higher productivity to increase their competitiveness.



Grinding



Eroding



Laser



Measuring



Software



Customer Care

Walter Maschinenbau GmbH

WALTER has produced tool grinding machines since 1953. Today, our product range is supplemented by tool eroding machines and fully automated CNC measuring machines in the HELICHECK series for contactless complete measurement of tools and production parts.

Walter Maschinenbau GmbH is part of the UNITED GRINDING Group. Together with our sister company, Ewag AG, we consider ourselves to be a supplier of systems and solutions for the complete machining of tools and can offer a wide range of products, including grinding, rotary eroding, laser machining, measurement and software.

Our customer focus and our global sales and service network of company-owned locations and employees has been appreciated by our customers for decades.

HELITRONIC TOOL STUDIO 2.1 R3

The version 2.1 R3 for the grinding software HELITRONIC TOOL STUDIO extends its capabilities as one of the leading grinding software. WALTER is the expert in tool machining and inspires customers with its solutions. Plenty of new abilities gives your WALTER grinding, measuring or eroding machine new possibilities for tool machining and tool measurement.



Software

HELITRONIC TOOL STUDIO 2.1 R3 at a glance

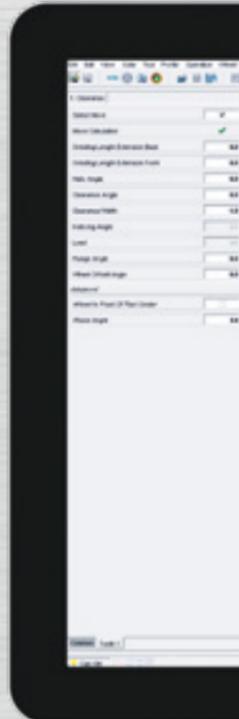
Application

- Design, programming, simulation, production of rotationally symmetrical tools and production components
- Grinding and regrinding of complex tool geometries in a single clamping cycle
- Economical from batches of 1 to mass production

Software

- HELITRONIC TOOL STUDIO with integrated wizard technology (WALTER knowledge base)
- Numerous options and extensions for more features and special applications

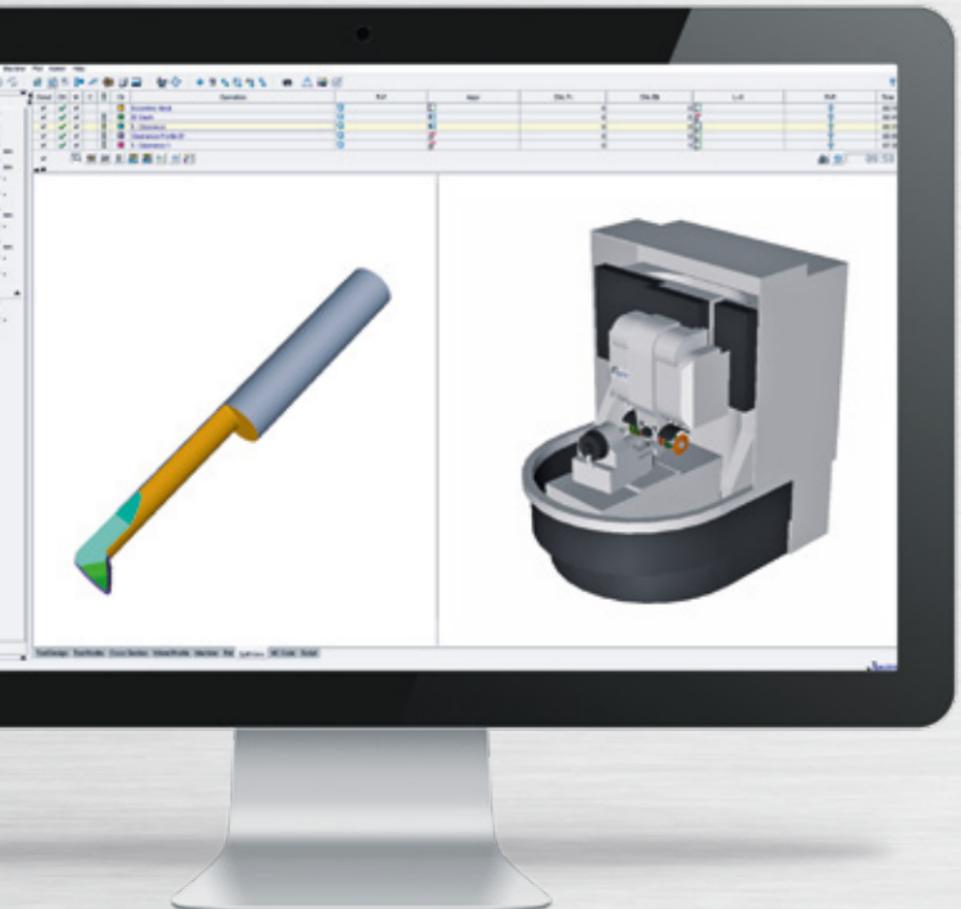
“What you see is what you grind” – this variant of Microsoft founder Bill Gates’ world-famous quote “what you see is what you get” brings the philosophy of HELITRONIC TOOL STUDIO into focus.



¹⁾ No need for a hardware extension for machines with HMC 600 control.
Machines with controls type HMC 400 and 500 require a hardware extension.

Machines

- Fully automatic CNC tool grinding machines and/or tool erosion machines from the HELITRONIC series
- Grinding machines with Andron control will still be supported¹⁾
- Compatible with PCs and laptops with Windows XP, Windows 7, Windows 8, Windows 8.1 and Windows 10





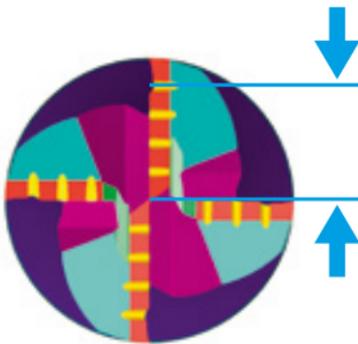
1. Phase angle in operation lip correction

Overview:

- The lip width can be controlled in operation lip correction via the rotation angle in A without affecting the rake angle

Benefit:

- Maximum flexibility for individual and innovative tool design



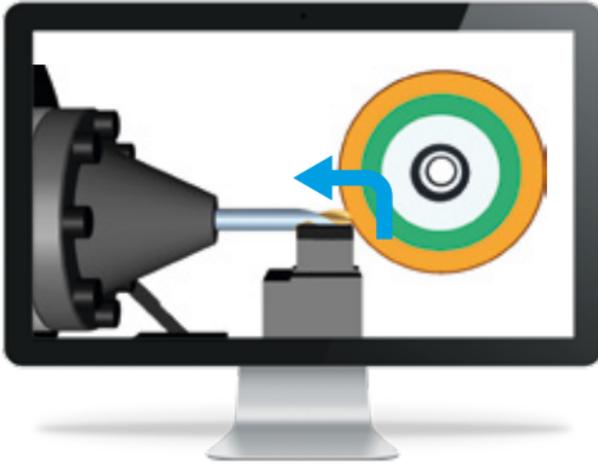
2. New parameter in operation chip breaker

Overview:

- The chip breaker can be positioned and dimensioned by distance to center

Benefit:

- Advanced functionality of the existing operation
- Simplified operation -> time savings during the creation



3. Length extension front in operation ballnose preforming

Overview:

- New parameter to control the grinding length in operation ballnose preforming

Benefit:

- Avoiding crash situations during preforming the end face radius

4. New universal gash operation

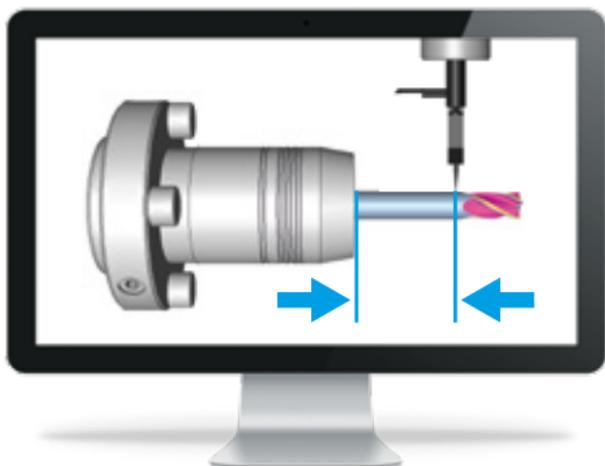
Overview:

- The new gashing operation can be defined completely free to any kind of rotary tool face geometries

Benefit:

- Maximum flexibility for individual and innovative tool design





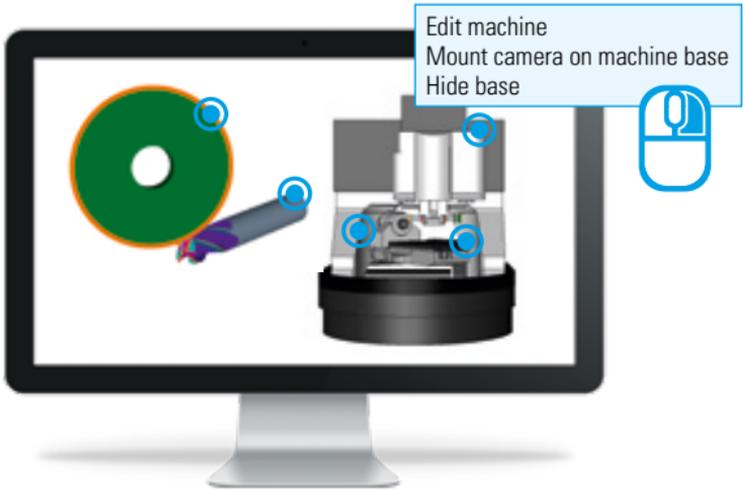
1. Blank runout probing defined from chuck

Overview:

- Definition of the probe position to measure the concentricity related to the end of chuck

Benefit:

- This ensures that the measurement is independent of the cutting length on the clamped tool, always on the cylindrical shaft



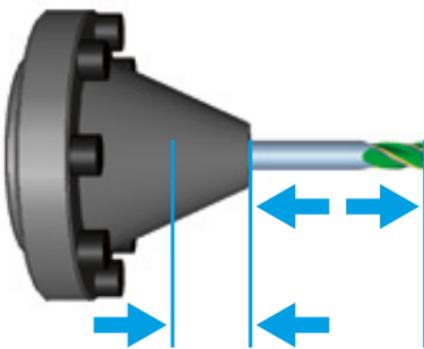
1. Position of the camera view can be fixed via right mouse click in simulation

Overview:

- By clicking the right mouse button on a component / element in the simulation, the camera position can easily be switched to your focus

Benefit:

- Extension of additional functions
- Quick change of perspective on your demands for easier handling and time savings during operating



2. New parameter for chucking depth

Overview:

- For a more realistic simulation in HELITRONIC TOOL STUDIO during the creation process of the tool

Benefit:

- For a more realistic grinding simulation and therefore a simplification during the work preparation



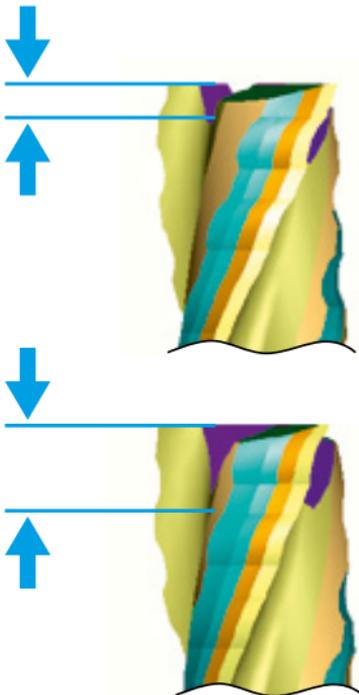
3. Visibility of current active wheel position in tool profile view

Overview:

- The position of the grinding wheel can be optimally displayed through clear color and transparency

Benefit:

- Extension of additional functions
- Fast and easy adjustment and positioning of the grinding wheels for profile tools



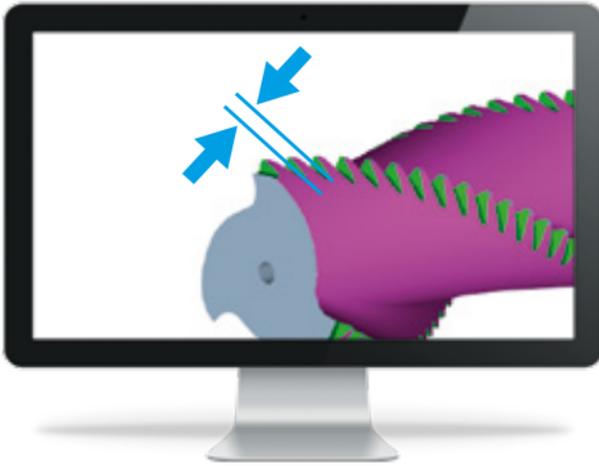
4. Displacing one tool profile for various cutting edges

Overview:

- For tools with a different cutting edge diameter or a different starting point at the profile

Benefit:

- Maximum flexibility and at the same time easy handling in the shortest time during the creation of ident numbers



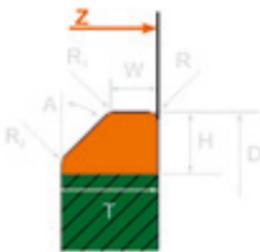
1. Before adding the operation “cam relief”, the line spacing can be determined

Overview:

- The operation cam relief is like many of our grinding methods versatile. It can for example also be used for the production of thread mills. Therefore the line spacing can be pre-configured during the creation of the operation

Benefit:

- Maximum flexibility and productivity



2. New grinding wheel type 1M1 for HELITRONIC TOOL STUDIO

Overview:

- New grinding wheel model 1M1 which applies grip during profile grinding etc.

Benefit:

- For even more flexibility and ease of use for the operator



3. Support on Windows 10

Overview:

- HELITRONIC TOOL STUDIO can now be installed on Windows 10 systems

Benefit:

- Supporting the latest system technologies. Current standards for your productivity



4. Security for your corporate network

Overview:

- The network option for HELITRONIC TOOL STUDIO now includes the possibility to even more protect your access data and configuration data

Benefit:

- Latest security standards to protect your company know-how



5. HELITRONIC TOOL STUDIO

Language versions for 25 countries available

- Brazil
- Bulgaria
- China
- Croatia
- Czech Republic
- Estonia
- France
- Germany
- Great Britain
- Hungary
- Italy
- Japan
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Russia
- Slovakia
- Slovenia
- South Korea
- Spain
- Sweden
- Turkey
- USA

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Walter Maschinenbau GmbH

Jopestr. 5 · 72072 Tübingen, Germany

Tel. +49 7071 9393-0

Fax +49 7071 9393-695

info@walter-machines.com

For worldwide contact details, please visit

www.walter-machines.com

