HAM Präzision and NUM
Over 20 Years of Partnership and Cooperation

The Andreas Maier GmbH carbide tool factory, or HAM for short, was founded back in 1969 in Schwendi-Hörenhausen, about 30 km south of Ulm. HAM has its own branches and partner companies around the globe. HAM and NUM are already able to look back on more than 20 years of successful cooperation as partners. This is why HAM uses the proven NUMROTO programming system on many of its machines across the group companies.

When it comes to competitive advantage, the key foundations as we move towards the future are research, development, and innovative products,” says Mr. Maier. “One Step Ahead” – the motto of HAM Precision and NUM Service reflect the promise of being close to the customer, forward-looking advice, and research and development.

One of the major projects HAM Präzision has invested heavily in over the past few years is expanding its production facilities and infrastructure. A major restructuring followed in 2015, thanks to which the warehousing, production, and data processing technology was modernized, providing greater reach for tool and medical applications, and the HAM Broker-Händler system, providing components for solid-state lasers.

To achieve this, HAM has invested heavily in research and development and is working towards its stated objective to be an HAM which is close to its customers and offers service in cooperation, of course, in-house. This comprises a comprehensive range of solutions including turnkey systems, as well as in-house systems that are equipped with NUM CNC systems. On site with HAM Präzision is a NUMROTO Version 4.0 system, which has been part of various trade fairs around the world this year. We will present the latest NUMROTO innovations in Europe as the exclusive distribution partner of MMP Technology® (Micro Machining Process from BinC Industries SA). Selective grinding can significantly increase productivity or adaptive grinding via monitoring of grinding performance using a grinding spindle performance. If you do not have an opportunity to visit us on GrindTec, there is a list of time slots here that you can take part in as an online webinar.

The capacity-oriented major revision 4.0 of the NUMROTO software has just been released. In the “Release Notes” section of NUMROTO Version 4.0, you will find a detailed guide to the new key features, such as helix step grinding for ball nose/corner radius end mills, automatic compensation tool, has also been subject to a longer service life and allows higher cutting feed and depth of cut.

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Another unique selling point in the special polishing and production process, which is equipped with micro-machining systems, Num materials for blank, can be found in this newsflash.

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GrindTec 2018
Augsburg, 14-17 March 2018
GrindTec is the leading international trade fair for grinding and finishing. Our team is looking forward to meeting you there. Go to our website www.num.com to find out more about GrindTec 2018.

And of course, there will also be many machine manufacturers on site with machines that are equipped with the NUM systems and technologies.
NUMROTO Draw

Wheel package drawings and other new features

NUMROTO Draw, the drawing and documentation tool, is now being used by many of NUMROTO’s customers and automatically uses the geometry data that is used for programming the grinding wheel package. This is created very quickly and can therefore be printed out while grinding and used as an assemble drawing and then saved in the database. All package drawings can be re-used at any time. NUMROTO customers who have made drawings on the basis of two technical drawings can document those drawings quickly and easily after they change. NUMROTO Draw can be used for customers with many strict certification standard requirements. In such cases, the basic drawing can be used to limit the scale to the current reference. The application also makes it possible to integrate graphics from your own sources without any additional effort. This drawing can be used across various pages if necessary.

As of NUMROTO 3.0.0, NUMROTO Draw can now automatically display the grinding wheel drawing in its drawing, for the machine operator, a grinding wheel assembly drawing can be printed out with some additional effort. Many companies can therefore save the effort of having to make such drawings separately in the design department. It is only worth keeping the specific grinding wheel package in mind for single pieces of grinding wheel packages. It is more economical to assemble the grinding wheel packages each time and then have them automatically produced at the wheel manufacturer or the first series. This is the only way to guarantee that special forms and variable geometric properties can be transferred from the grinding wheel packages (as originally defined for the first series) to the drawing. If the package assembly is modified in a subsequent series or if grinding wheel packages with other dimensions are used, it is not possible to organize this in the drawings dimensions. At that time, the relevant data can be used to create drawings using different scales. The grinding wheel shape can be displayed as specified in a format for drawing on a digital screen or a separate page.

A further innovation is that drawings can be supplemented with tools to document general data or to unify dimensions and measurements. For example, a drawing can be used for various dimensions by adding the dimensions with a letter instead of another number. The corresponding dimension can then be added in the drawing and saved in the format. These tables can then be used in other drawings. NUMROTO Draw also offers ready-made tables, e.g. for general measurements and grinding wheel family, which can be placed at any point of the drawing or a window screen.

Taking DXF views or vector graphics across from the 3D simulation has been made even more user-friendly. The vector objects are now displayed directly on the drawing without any additional effort. A simple drag-and-drop approach lets you insert individual objects from the 3D simulation. The vector structure also helps you group individual elements together, superimpose them, and make them visible or invisible. The toolbar has been adapted to the extended requirements and made clearer. A few simple clicks on the latest new pages or across them from another window, in addition, have made more convenient.

As the NUMROTO Draw option is an integral component of NUMROTO, software maintenance and upgrades are provided in accordance with the current NUMROTO policy. Thank yourself to a NUMROTO demo at GrindTec 2018.

Release Notes

New options
• New possibility for programming a 1st step on ball nose and wheel profile, this is now possible to program different radius edges for the end of the radius and the beginning of the circumference part.

General
• Automatic conversion of opening angle to a text with a 1st step according to the tip radius angle at the grinding wheel

End mills
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