ALMÜ offers complete solutions for production

ALMÜ Präzisionswerkzeug GmbH has been using NUMROTO software for 26 years and has been a partner of NUM from the very beginning. The trade group with NUMROTO is part of the complete solution while ALMÜ supports with their mid-size and their own production needs. With their stable, they can utilize everything from one source. With NUMROTO, ALMÜ provides a software programming environment for use on a wide range of machines. This benefits not only the lead grinding experts but also the trainees.

Customized solution packages are essential at ALMÜ and focus on making a clear out of chaos, using the focus on creating high precision and tailored solutions. The company focuses on a holistic view of the grinding process. ALMÜ was founded in 1976 by Alfred Müller. In 2007 his son Mr. Markus Müller, Managing Director of ALMÜ, clearly sees innovation in addition to the use of state-of-the-art technology. In the beginning, the tools were made for aluminum. The company’s philosophy is embodied by Mr. Müller and his innovative employees.

To be able to offer today’s customers with precisely tailored tools and work fixtures ALMÜ focuses on speed, precision, flexibility and efficiency. ALMÜ is not only thinking about the future during training, they are already there. Thanks to the use of NUMROTO, the generality of the tools can be designed optimally.

NUMROTO is a software package that is tailor-made to the customers’ needs. The company started with NUMROTO DOS back in 1994, but now is using the latest NUMROTO version. The customer base includes companies from the automotive, mechanical engineering and aerospace industries. ALMÜ is particularly useful for small runs and resharpening jobs.

High-quality precision in the future

Mr. Markus Müller, Managing Director of ALMÜ talks about NUMROTO: “With NUMROTO everyone can explore ideas and.seek for new solutions and work together with our innovation and high-precision potential.”

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• Tools from Kennametal have a new ISO disengagement program for grinding. This is used to avoid collisions during the grinding process. The tool moves along a defined path, and the disengagement point is calculated to ensure that the tool is clear of the workpiece before it stops. This is especially important for large tools with a high weight, as they may not be able to stop quickly enough to avoid collisions.

• The new ISO disengagement program uses the wheel corner radius to calculate the disengagement point. This ensures that the tool does not make contact with the workpiece during the disengagement process.

• In the operation "Body clearance", you can now define the position of the tool relative to the workpiece. This is used to ensure that the tool is kept clear of the workpiece during the grinding process.

• In the operation "Rounding radius relief", you can now define the radius of the rounding radius. This is used to ensure that the tool does not make contact with the workpiece during the rounding process.

• New possibility to position the tool "perpendicular to the surface" when grinding reliefs. This is used to ensure that the tool is kept clear of the workpiece during the grinding process.

• For the 3D simulation, the stock removal can now be calculated in such a way that the radius of the tool is considered. This ensures that the tool is kept clear of the workpiece during the simulation.

• For the 3D simulation, the blank can now also be shortened directly in NUMROTO-3D. This ensures that the tool is kept clear of the workpiece during the simulation.

• For each tool type, a separate drawing header and a separate set of tables are provided. This allows for more detailed information to be included in the drawings.

• For wheel probing the number of measurement points can now be defined separately for the flange distance and the diameter. This ensures that the tool is kept clear of the workpiece during the probing process.

• For each grinding wheel, a separate color can now be assigned. This ensures that the tool is kept clear of the workpiece during the simulation.

• For each grinding wheel, a separate drawing header and a separate set of tables can now be assigned. This allows for more detailed information to be included in the drawings.

• In tables, it is now possible to select a separate color for each data table. This ensures that the tool is kept clear of the workpiece during the simulation.

• In tables, it is now possible to display the difference to the programmed tool path. This ensures that the tool is kept clear of the workpiece during the simulation.

• At the end of a process, which is generated by NUMROTO (tool grinding, probing, wheel dressing), it is now possible to display a notification. This function must be activated in the NR-Control settings.

• New possibility to display the difference to the programmed tool path. This ensures that the tool is kept clear of the workpiece during the simulation.

• It is almost a tradition for our customers and interested parties to visit us at our GrindTec stand and to inform themselves about innovations in NUMROTO. As GrindTec was canceled, we are delighted to explain these functions in detail by phone, e-mail or in online meetings.

• If you have any questions, we will be happy to explain them to you by phone, e-mail or in an online meeting.

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