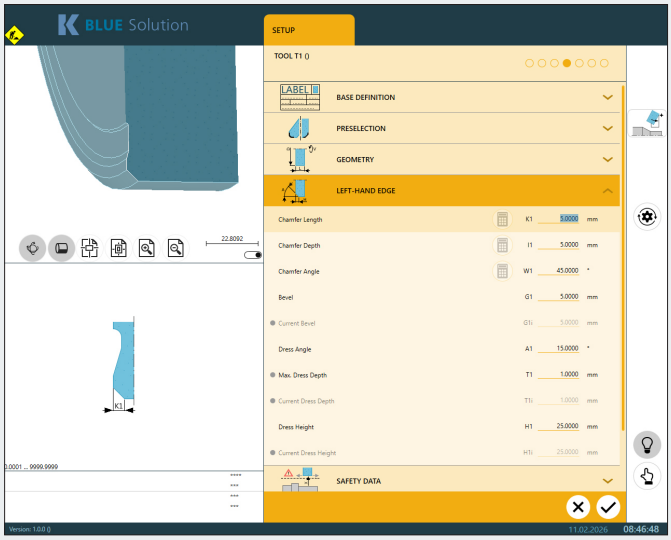
gSHAPE

KELLENBERGER

What is gSHAPE?

gSHAPE is a powerful feature within Kellenberger's BLUE Solution that allows the creation of 3D workpieces by importing DXF drawings. These 3D parts are used for both visual programming and collision detection. In addition, grinding wheels and clamping devices are also displayed in 3D.



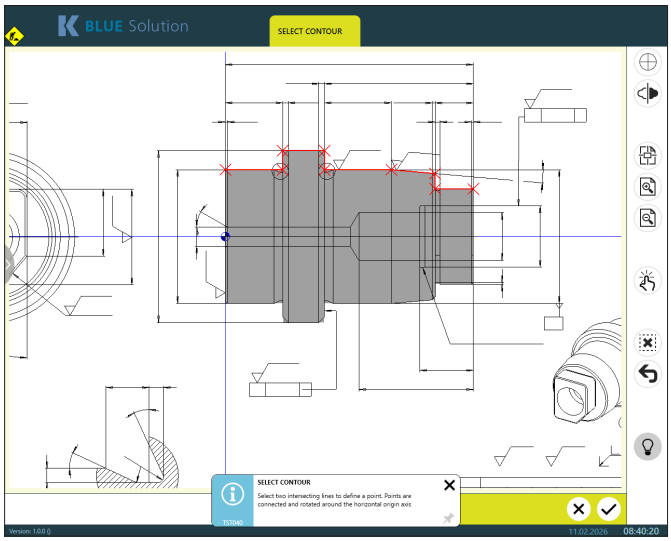
3D Grinding wheel definition

- Grinding wheels can be defined with 3D support
- Clear visualization
- Edges are immediately visible

Import

gSHAPE enables the conversion of 2D contour drawings (DXF format) into 3D workpiece models. This eliminates the need for manual coordinate entry and reduces errors in part definition.

- Users can import 2D contours directly into the programming environment.
- The system automatically generates a 3D rotational solid based on the imported 2D profile.
- The function categorizes contour segments into functional grinding types such as diameters, shoulders, cones and steep cones.



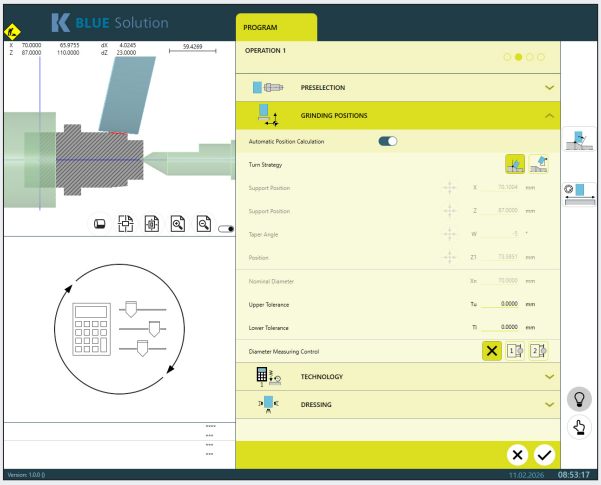
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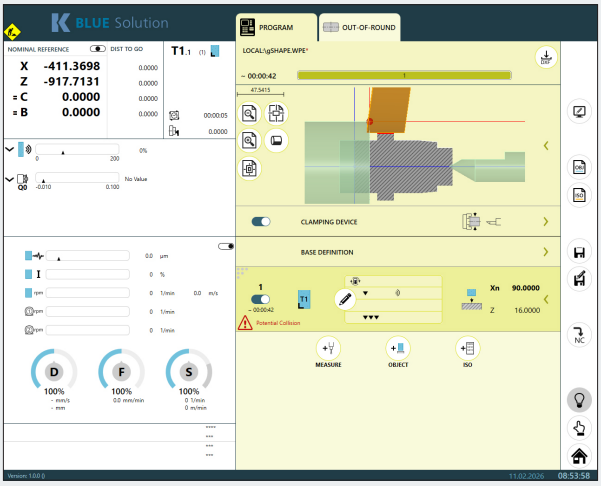
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Integrated 3D programming

Once a part has been created using gSHAPE, it serves as the basis for the entire programming workflow.

- The 3D part is displayed during the creation of operations, in the program, and in production, providing the operator with a clear representation of the workpiece
- Operators can interactively select specific elements of the 3D contour to define grinding operations
- Positions are automatically calculated based on the selected element

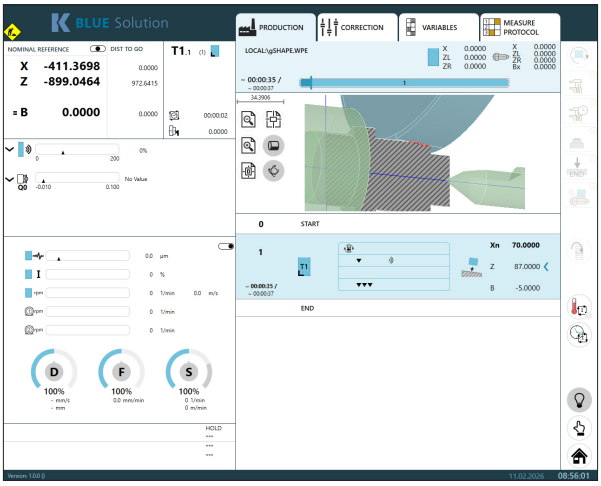




Collision detection & safety

The 3D model generated by gSHAPE visually displays potential collisions.

- The BLUE Solution performs collision checks between the 3D workpiece, the grinding wheels, and the clamping devices to prevent potential damage to machines or workpieces.
- Grinding wheels and clamping devices are modeled entirely in 3D.



Your benefits

- The 3D model generated by gSHAPE visually displays potential collisions.
- The BLUE Solution performs collision checks between the 3D workpiece, the grinding wheels, and the clamping devices to prevent potential damage to machines or workpieces.
- Grinding wheels and clamping devices are modeled entirely in 3D.

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