



ToolStress Calculator

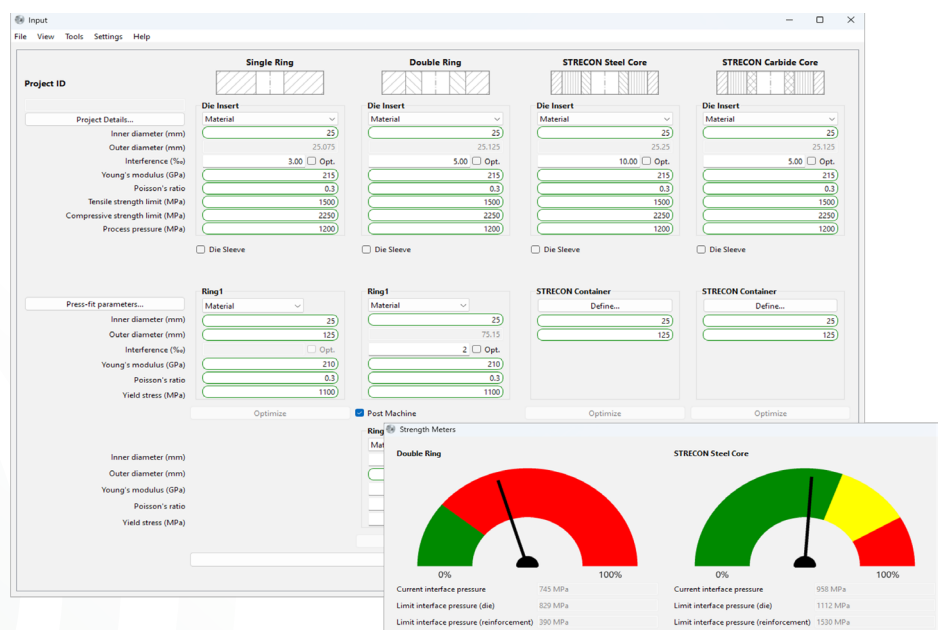
ToolStress Calculator is a software for designing prestressing systems. It is mainly intended for cold forging processes but also applicable for any kind of die system under inner pressure. The program enables a thorough design of prestressing systems, including the calculation of optimum interference fits, press-in forces and tool stresses. It is a highly suitable tool for choosing the right prestressing system, as the software is unique in its capability to consider both conventional single or double ring systems and STRECON stripwound containers with a steel or carbide winding core.

How does it work?

The program is based on the Lamé equations for thick-walled cylinders. By applying these to user-specific tool dimensions and materials, the capabilities of reinforcement solutions can be calculated in a straightforward and user-friendly way. With the program's special focus on the prestressing tool, you can make sure to have a stable reinforcement system with appropriate interference fits. Furthermore, the program can help decide in which cases the use of a STRECON container is advantageous compared to a conventional tool system. For this purpose, the Strength Meter view gives a practical visualization of the respective reinforcement strength and limitations.

Program highlights

- Compare tool performance of STRECON steel core and carbide core containers (E+) with conventional single or double rings
- Optimize interference fits by click of a button
- Clear visualization of the reinforcement strength with Strength Meters



Comparison overview of a Single Ring, Double Ring, STRECON Steel Core, and STRECON Carbide Core in ToolStress Calculator