NetTool

NetTool – Prestressed Die Analysis Software

1. Software capabilities

– Analysis of single and double stress ring

– Safe / non safe decision according to process and material parameters

– Considering process pressure, material data, die geometry and interference, calculation of the following for all assembly members:

- Radial
- Tangential
- Effective stress curves

– Interference optimization for single stress ring

– Tungsten Carbide (WC) material properties depending on Cobalt (%Co) content

– Steel material properties depending on hardness

– Mohr-Coulomb yield theory (optional) for die-insert materials

– Calculation and optimization in seconds

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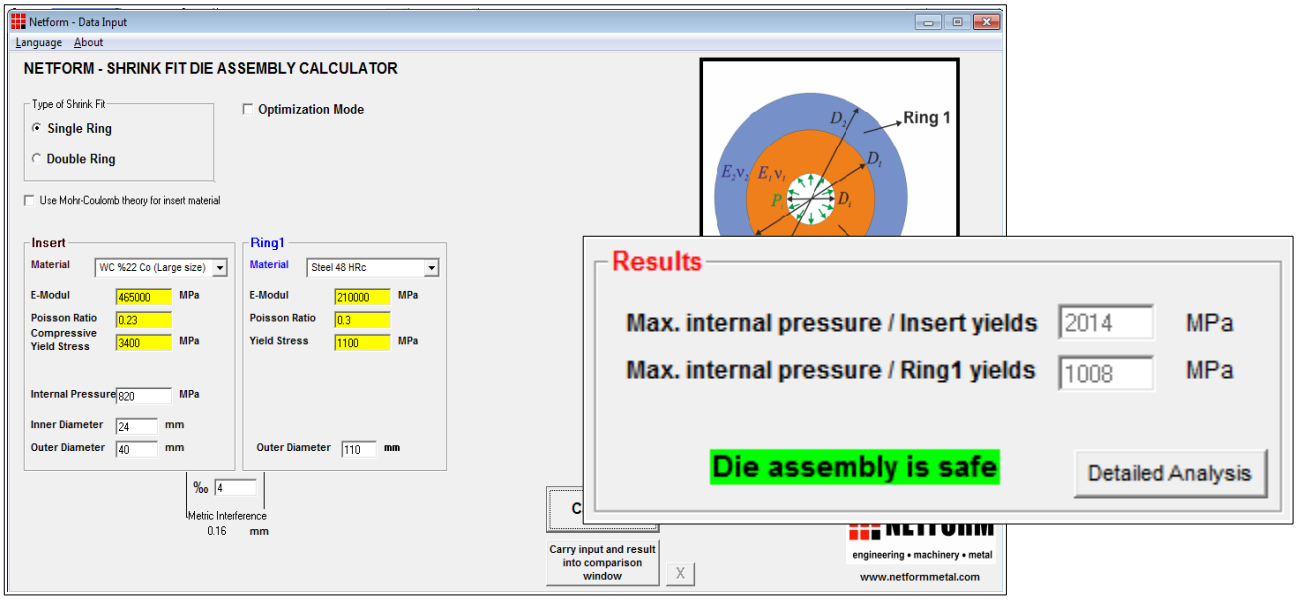
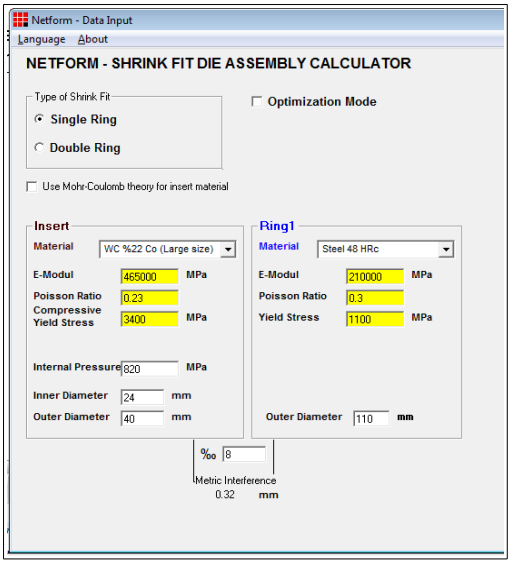
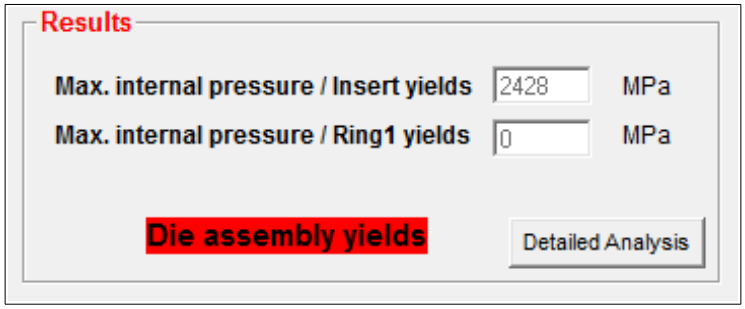
2. Screenshots

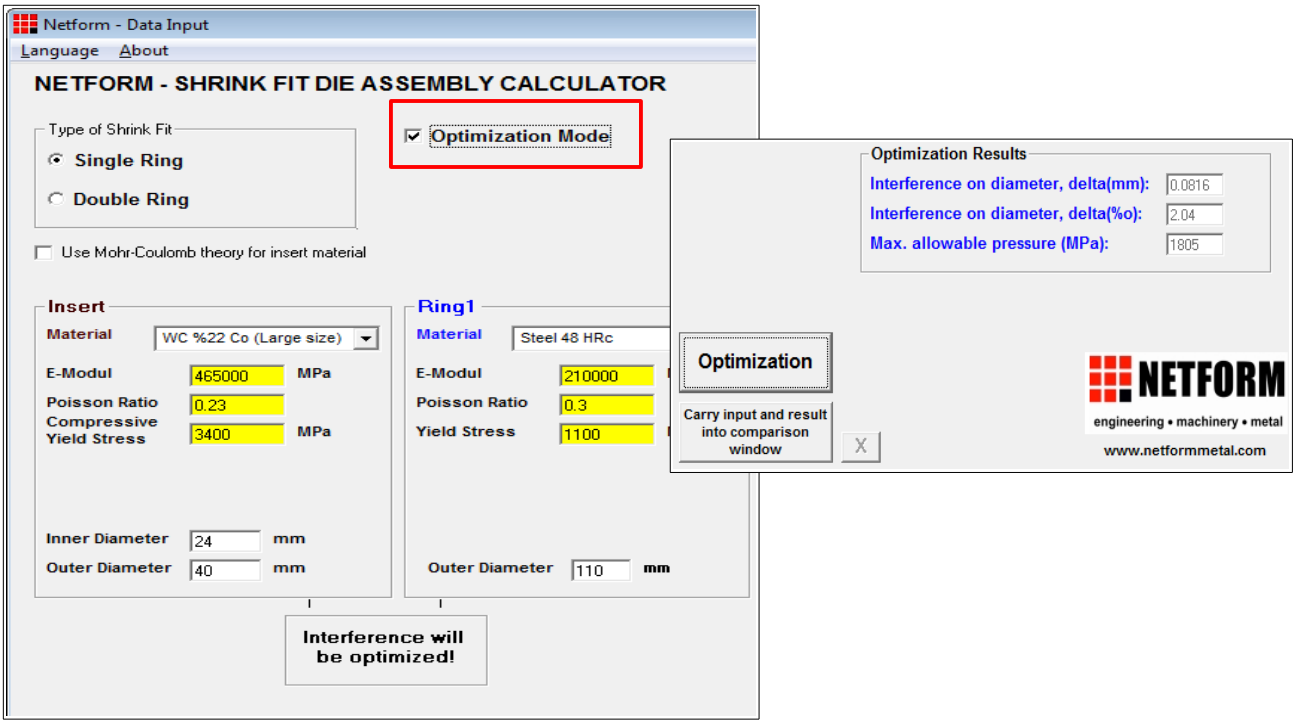


Software calculates if the die assembly safe for the given insert/ring diameters, interference and inner process pressure

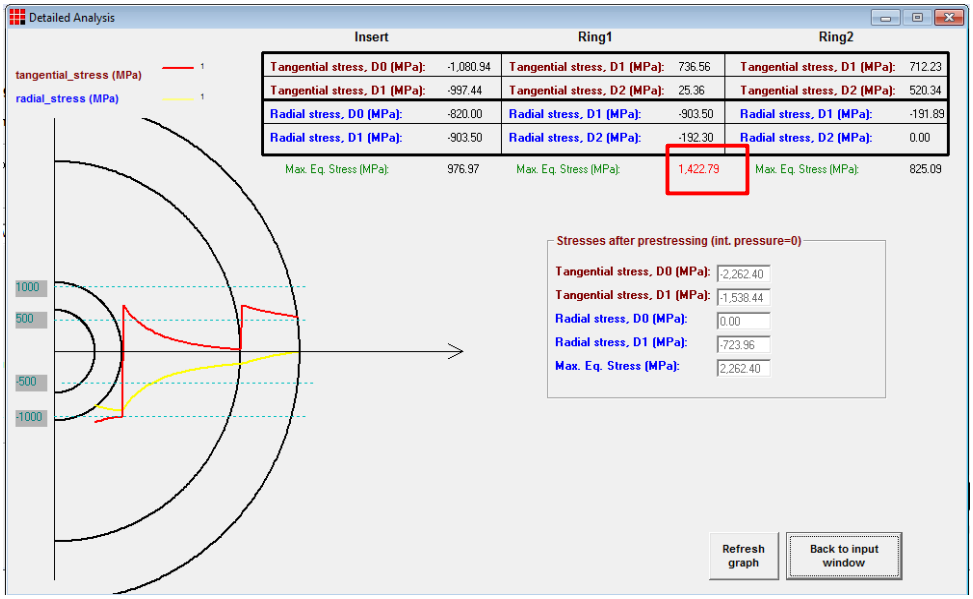




If interference or inner pressure causes any of the materials to yield, software gives a warning message of: “plastic deformation”



Finding out optimum interference for single ring applications



Stress distribution in die members is shown graphically. One can see in this window which die member exceeds the given limits, as well.