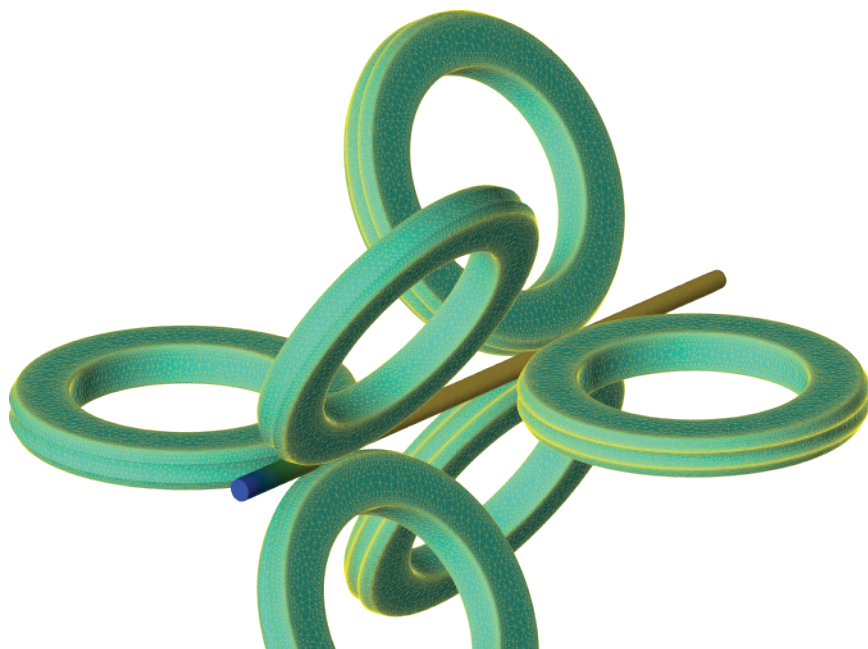


QFORM UK

WIRE INDUSTRY PROCESSES



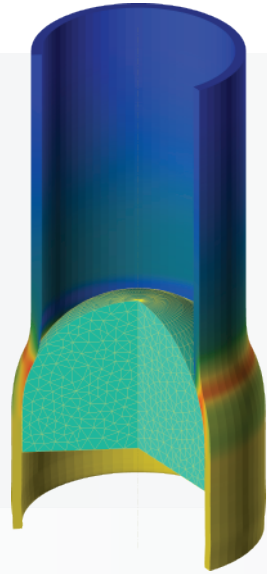
**SOFTWARE FOR DESIGN, SIMULATION,
AND OPTIMIZATION OF DRAWING, EXTRUSION,
ROLLING, AND OTHER DEFORMATION PROCESSES**

Validated by industry worldwide
Integrated with CAD/CAM
Easy-to-use interface
24/7 online support
High performance

Reduce costs
Boost productivity
Increase profitability
Extend your product range
Get more from your equipment

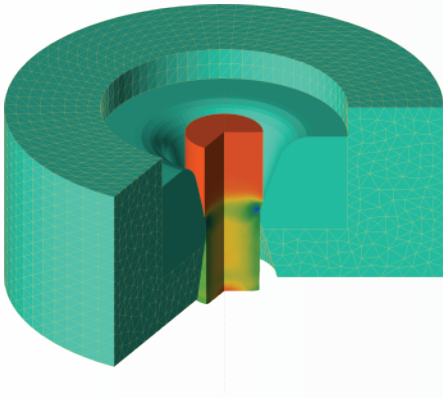
TUBE DRAWING

Prediction of wall thickness and stresses
Prevention of damage and defects
Evaluation of mandrels and die parameter configuration
Prediction of wrinkling and fracture risk



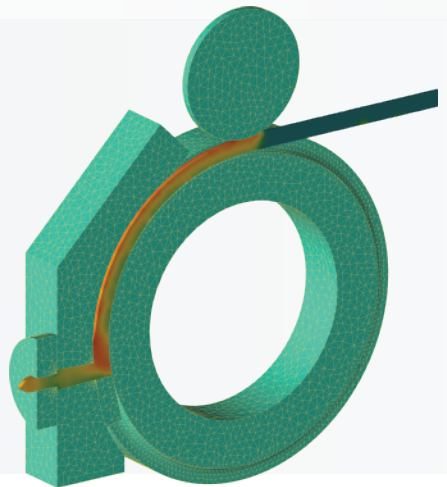
WIRE DRAWING

Sequence optimization
for round and profile wires
Fast simulation of multi-pass drawing
Optimization of die angle
and bearing length
Reduction of development time and trials



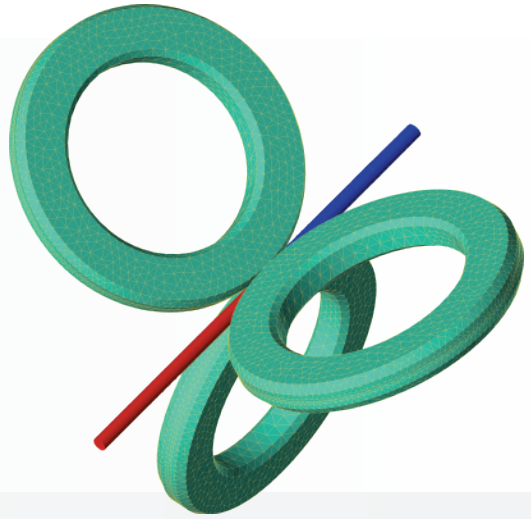
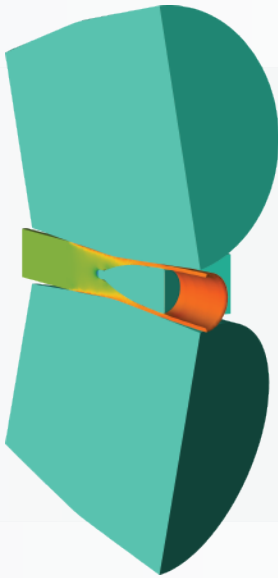
CONFORM EXTRUSION

Optimization of die design and extrusion flow
Control of material and tool temperature
Profile geometry and structure analysis
Prediction of pressure and temperature



WIRE ROLLING

- Design optimization of each roller profile
- Optimization of wire drawing sequence
- Prediction of load, torque, and contact pressure on each roller
- Analysis of metal flow and profile filling
- Evaluation of roll stresses and distortion



TUBE ROLLING

- Special mesh adaptation in the deformation zone
- Volume constancy throughout the deformation process
- Consideration of movement and support of all tools
- Control of geometry and deformed metal structure

COMPACTION

- Special mesh adaptation in the deformation zone
- Volume constancy throughout the deformation process
- Consideration of movement and support of all tools
- Control of geometry and deformed metal structure

Detailed analysis of metal flow and product structure

Accurate prediction of loads, stresses, and strains during processing

Optimization of die design parameters and extension of tool life

Identification and elimination of defects in final products

Reduction of physical trials through simulation-driven corrections and process modifications

