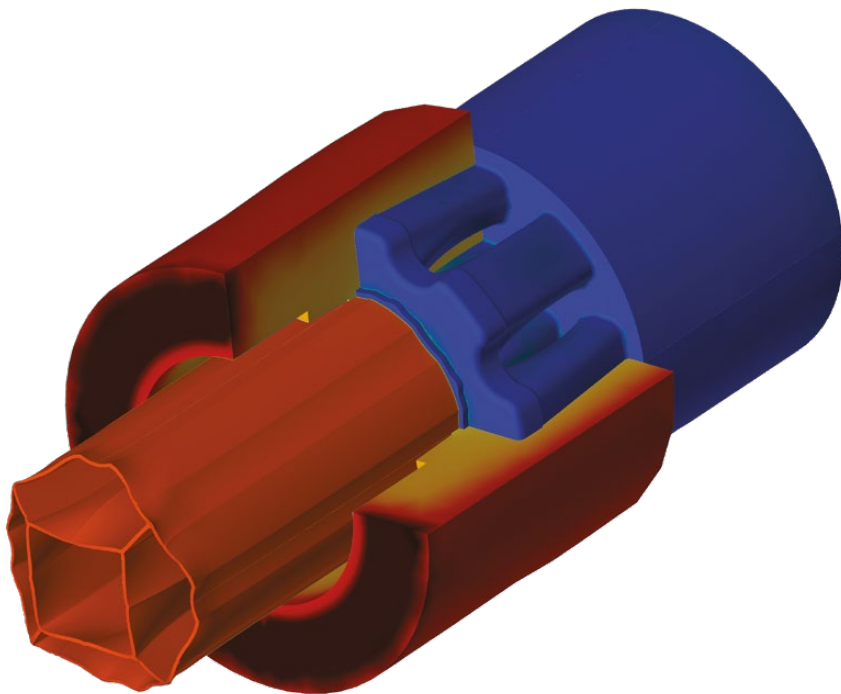


QFORM UK EXTRUSION

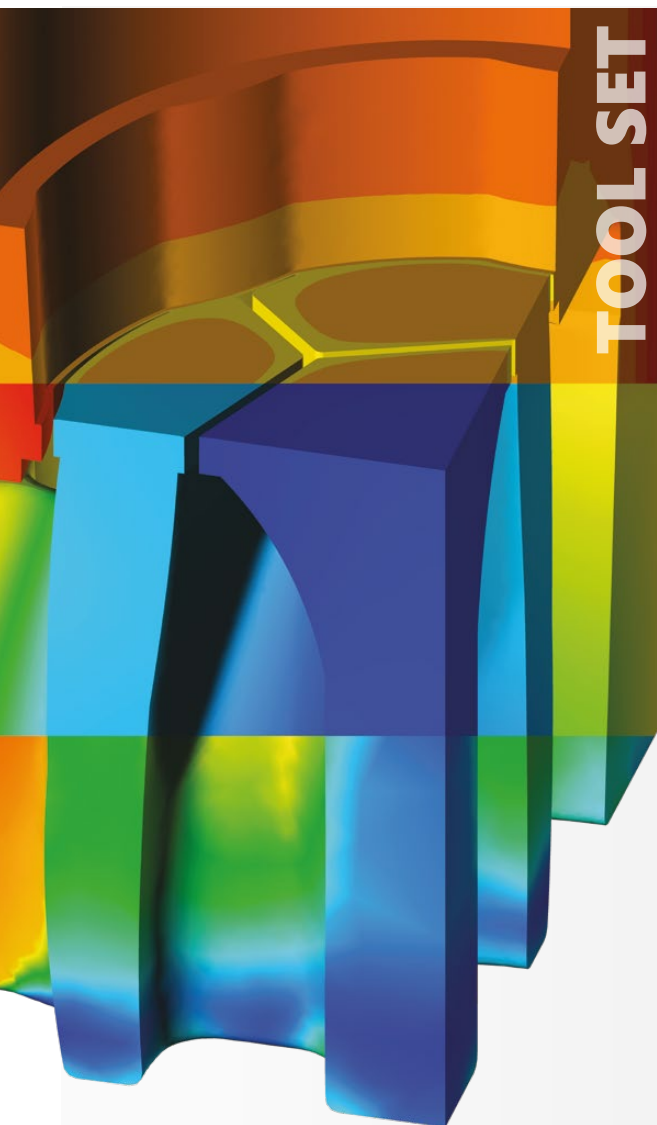


SOFTWARE FOR SIMULATION, ANALYSIS AND OPTIMIZATION OF PROFILE EXTRUSION

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

FOR DIEMAKERS AND DESIGNERS



Calculation of
stress-strain state,
tool life analysis

Design optimization
based on simulation

Fully coupled
deformation and
temperature task
calculation

Prediction of extruded
profile shape

Analysis of charge
welds for scrap
minimization

VALIDATION OF DIES AND TECHNOLOGY BY QFORM UK
ALLOWS DIEMAKERS AND DESIGNERS TO SUPPLY
PRODUCTS OF THE HIGHEST QUALITY TO EXTRUDERS

FOR PROFILE MANUFACTURERS

Productivity increase:

- temperature-velocity mode
- tool life analysis
- material utilization rate

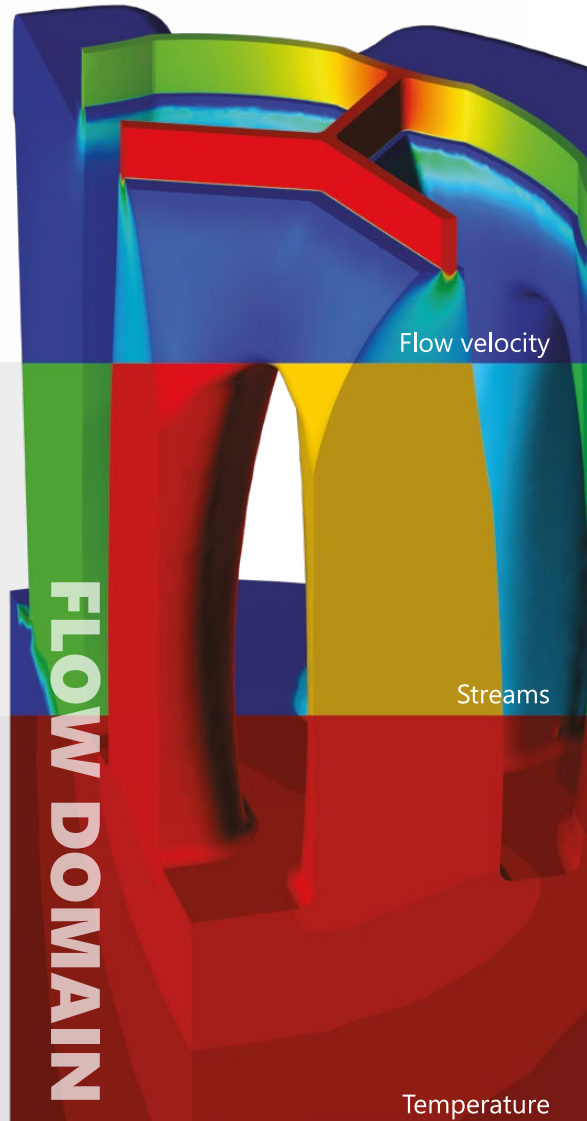
Prediction of final
profile dimensions

Profile quality control:

- streaking lines
- welding seams
- back-end defects
- underfilling prediction

Quenching simulation:

- all cooling system configurations
- prediction of profile distortion and mechanical properties depending on cooling modes

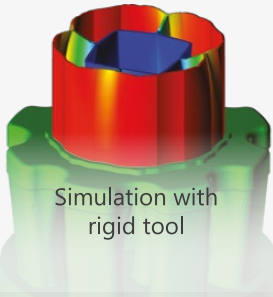


QFORM EXTRUSION CALCULATES MATERIAL FLOW
FULLY COUPLED WITH THE TEMPERATURE AND
DEFORMATION OF THE TOOL AND DIE SET ELEMENTS

APPLICATION SAMPLES

COUPLED TASK

Simulation taking into account die set deformation and temperature evolution



Simulation with rigid tool



Real flow



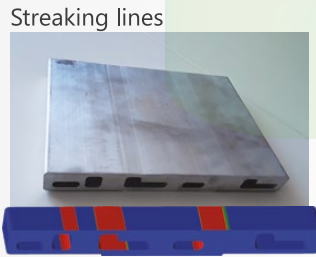
Simulation with deformable tool

PREDICTION OF DEFECTS

Prediction and elimination of defects at the design stage

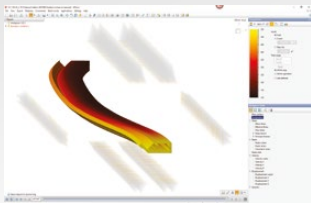


Underfilling

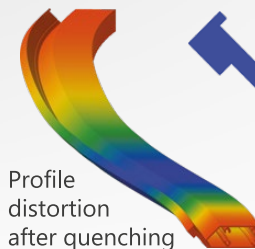


Streaking lines

NEW: QUENCHING SIMULATION



Cooling station in QForm UK



Profile distortion after quenching



Hardness distribution after quenching

