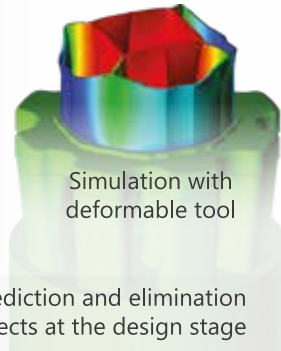


# APPLICATION SAMPLES

## COUPLED TASK

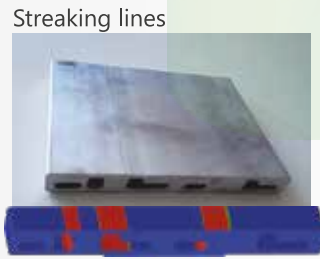


Simulation taking into account die set deformation and temperature evolution



## PREDICTION OF DEFECTS

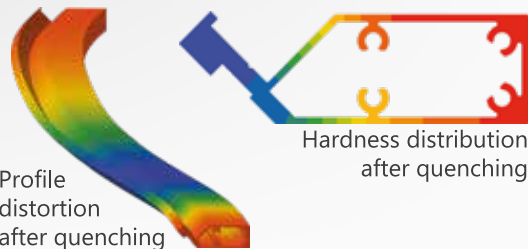
Prediction and elimination of defects at the design stage



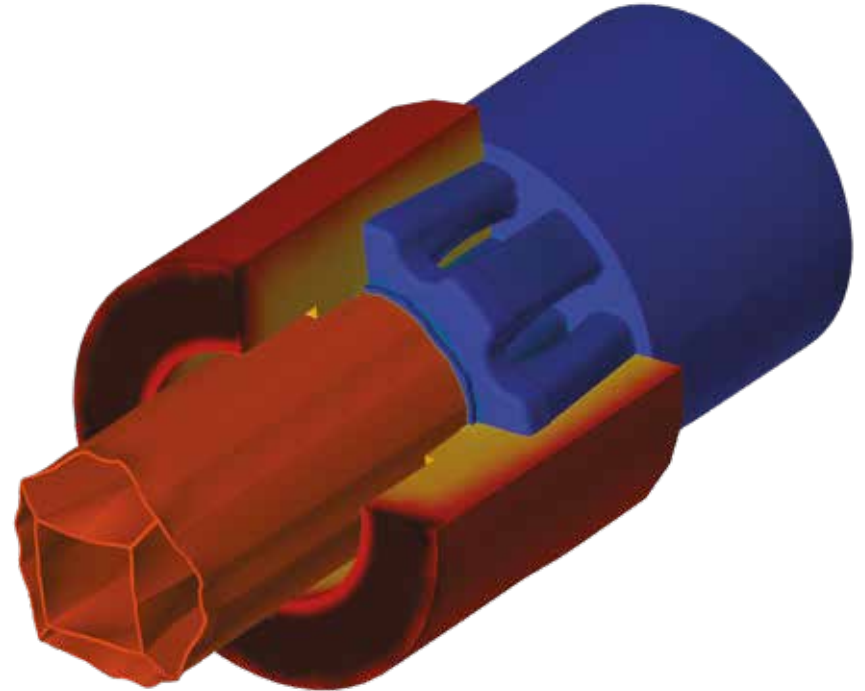
## NEW: QUENCHING SIMULATION



Cooling station in QForm UK



# 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

## FOR PROFILE MANUFACTURERS



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

Productivity increase:

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

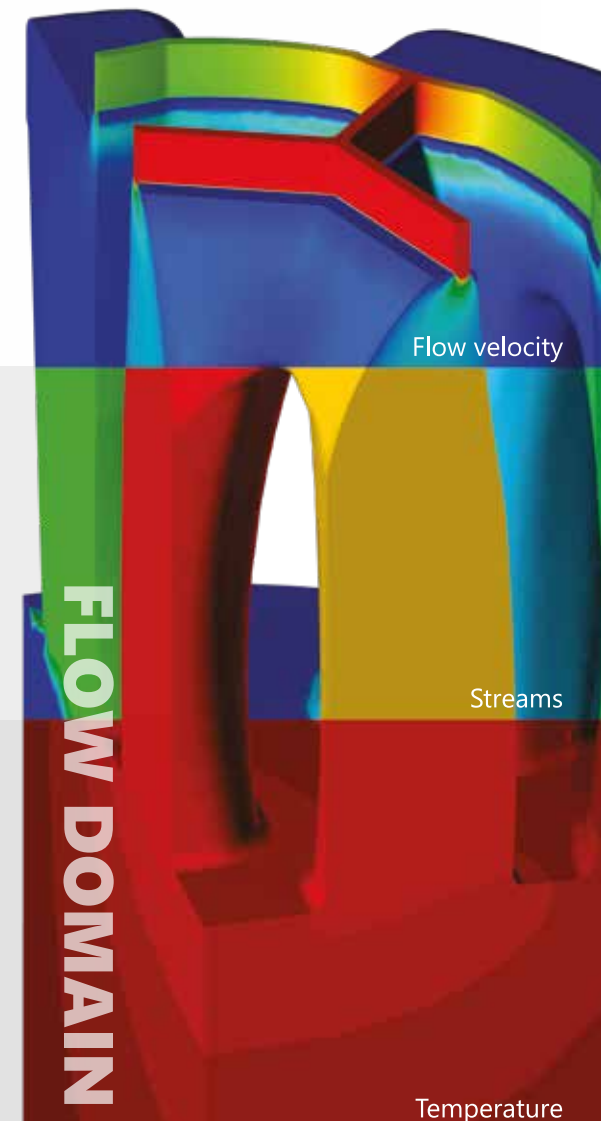
Prediction of final profile dimensions

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



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

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