Simufact Forming Rolling
Serves the simulation of rolling processes of all kinds. Slab mill, profile rolling, tube rolling, wire rolling or roll forming, calibrating or straightening, irrespective of hot or cold temperatures: With Simufact Forming rolling processes of all dimensions and across the whole range of rolling products can be simulated.

Shorter development times – shorter time to market
Fast process optimization
Deeper process understanding
Higher process robustness & quality

Use Simufact Forming Rolling to achieve higher process stability and quality, e.g. by optimizing the respective pass schedules. The software assists you in predicting effective properties of rolled stock and to develop new manufacturing concepts (e.g. changing from machining to forming, i.e. thread rolling). With the use of Simufact Forming Rolling you reduce the manufacturing costs by proper selection and validation of pass schedules and thus optimize the coordination of the individual process stages (number of passes). Additionally, lower fixed costs through higher machinery utilization.

Apply Simufact Forming Rolling in order to simulate your processes virtually without wasting real rolling mill capacity.
Simulate the entire process chain of rolling material with Simufact Forming.
From the first heat treatment to the cutting/sawing of the material, rolling, controlled cooling, working on the final geometry (straightening and calibrating) and the last heat treatment – everything can be simulated. The extremely realistic results take all manufacturing conditions into account.

Utilize the advantages of Simufact Forming for your ring rolling processes:

- Verify the manufacturability / feasibility of rolling processes (feasibility studies)
- Avoid rolling defects (wings, cracks, improper groove fill)
- Analysis of force, torque and energy demands
- Examine and optimize the rolling strategy in respect to the optimum utilization of rolling passes
- Check gripping conditions laid out in process design
- Choose the right pass schedule
- Avoid or reduce distortions or warping of the rolled material
- Verify the number of passes

Simplified operating concept:

The software offers an easy, intuitive user interface. The construction of simulation models with their variety of parameters and the consideration of general conditions becomes simplified about the use of templates. Depending on the type of rolling processes the software offers typical default settings (Application Function Sets).

The Simufact operating concept shortens the learning curve with the software and convinces in day-to-day life with high ease of use.