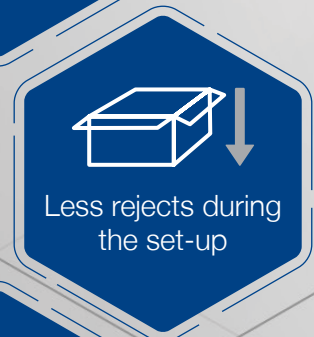
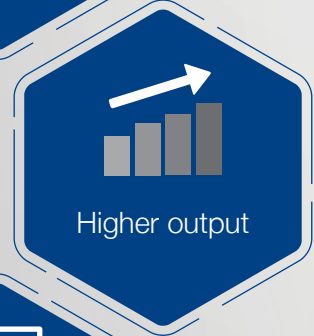


Automation of the
Set-Up Process to
Prevent Collisions and
to Increase the Output



for
torsion spring coilers



Situation

- When setting up complex bent parts, the operator has to test the production process slowly several times in order to make sure that the wire does not collide with the tool
- At the same time, however, the set-up process should be as fast as possible to minimize downtimes

Solution



Requirements

- Application of WAFIOS Tools
 - Geometrical programming
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- With *iQspring+* the bending process can be graphically visualized and optimized while the part is being set up
 - If a collision is predicted, collision-prevention solutions are automatically generated
 - Next, the maximum output of each collision-free bending sequence is displayed
 - Based on this simulation, the axis movement can also be automatically optimized which increases the output significantly