

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



for torsion spring coilers

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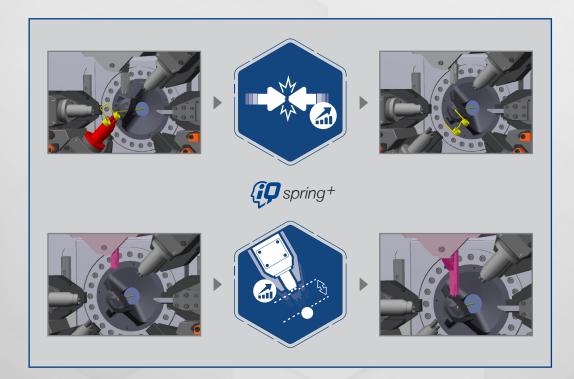


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Situation

- 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



- With iQspring+ the bending process can be graphically visualized and optimized while the part is being set up
- If a collision is predicted, collisionprevention 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

Requirements

- Application of WAFIOS Tools
- Geometrical programming