

spring⁺ for torsion spring machines

Simulation of the bending process with collision avoidance and performance increase

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.

Your benefits:

- Early detection and automatic avoidance of collisions before the bending process starts
- Higher output due to optimization of the axis movements
- Determination of cycle time to facilitate the production planning
- Reduction of the set-up time
- Less rejects while setting up the machine Feasibility simulation before the bending process

Solution:

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.

Requirements:

- Application of WAFIOS Tools

Available machine types:

- FMU machines
- Compatible machine sizes on request

