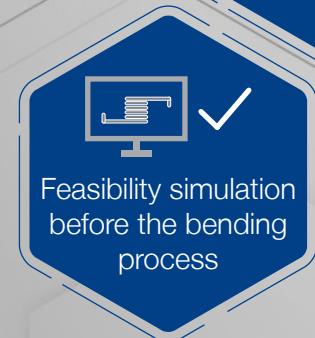
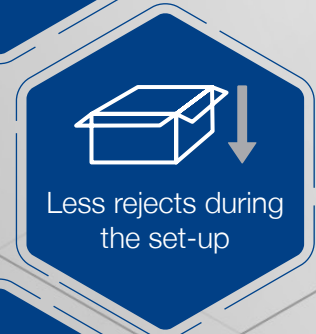
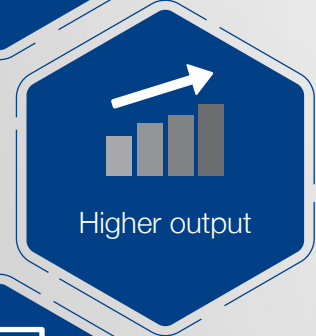


Automation of the  
Set-Up Process to  
Prevent Collisions and  
to Increase the Output



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



- 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
- Geometrical programming