WAFIOS

Automation of the set-up process to prevent collisions and to optimize the position of the table

iQwire+

for
wire bending machines

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Precision Machinery for Wire and Tube

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- Early detection and automatic prevention of collisions before the bending process is started
- Shorter set-up time due to automatic calculation of the table position
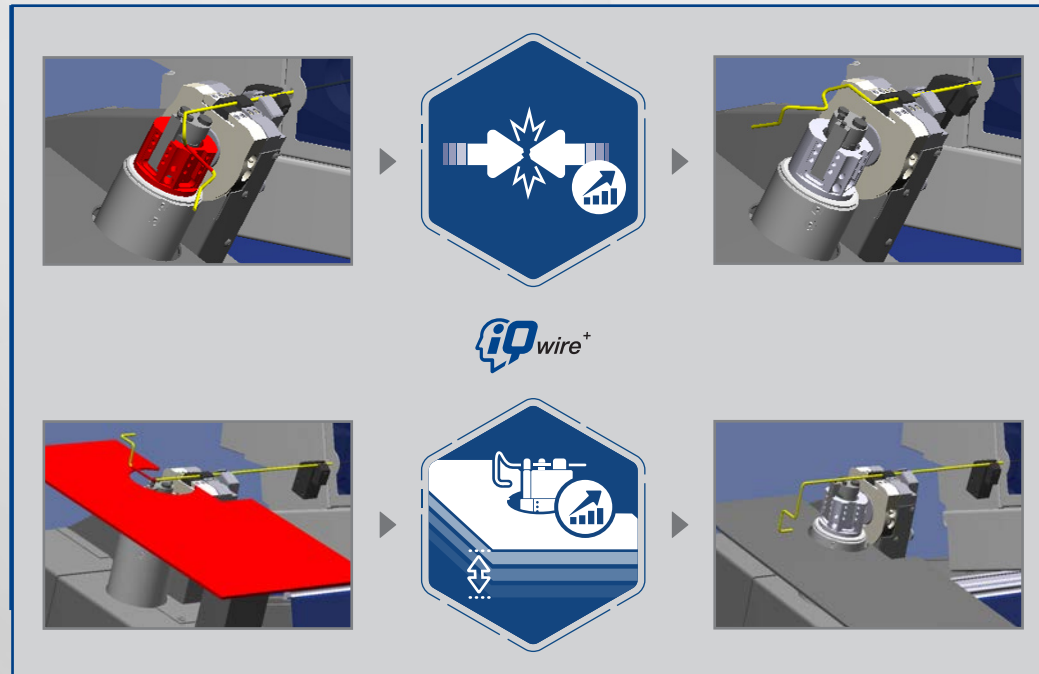- Less rejects during set-up
- Determination of cycle times for accurate production planning
- Feasibility simulation before bending process

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. However, the set-up process ought to be as fast as possible to minimize downtimes.

Solution

iQwire+

- *iQ*wire+ enables the graphical visualization and optimization of the bending process while a part is being set up. If a collision is predicted, alternative bending sequences are generated automatically. Next, the maximum output of each collision-free bending sequence is displayed. Based on the simulation, the table position can be automatically calculated which reduces downtimes during set-up.

Requirements

- Application of WAFIOS Tools

- Geometrical programming

- Displaceable table (X axis)