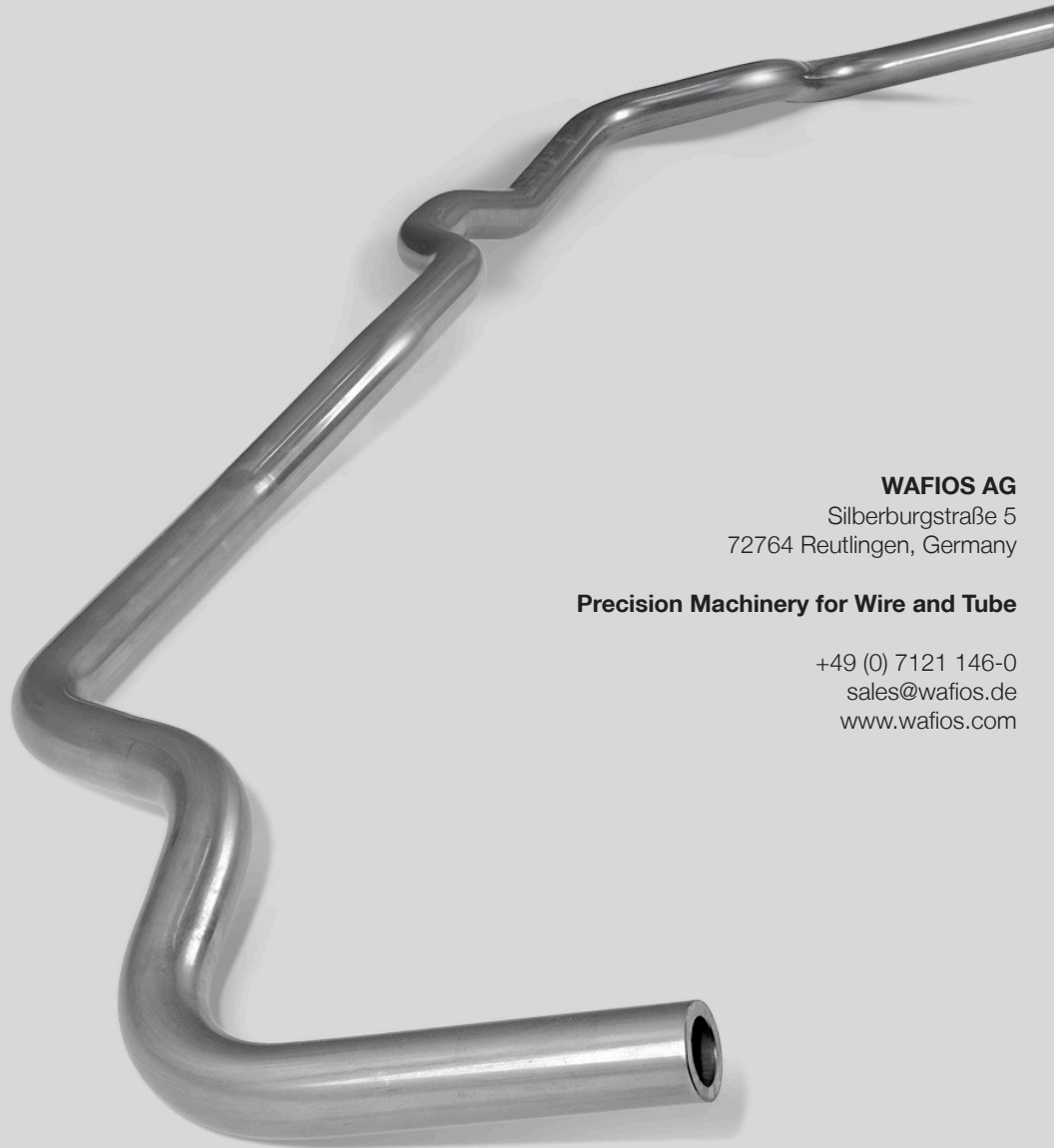


Automation of the  
Set-Up Process to  
Prevent Collisions and  
to Increase the Output



for  
tube bending machines



**WAFIOS AG**  
Silberburgstraße 5  
72764 Reutlingen, Germany

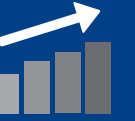
**Precision Machinery for Wire and Tube**

+49 (0) 7121 146-0  
sales@wafios.de  
www.wafios.com

Note scope of delivery and restrictions in quote © WAFIOS AG 2022  
en. - C04/22




Automatic  
avoidance of  
collisions




Higher output



Accurate  
production planning



Faster set-up

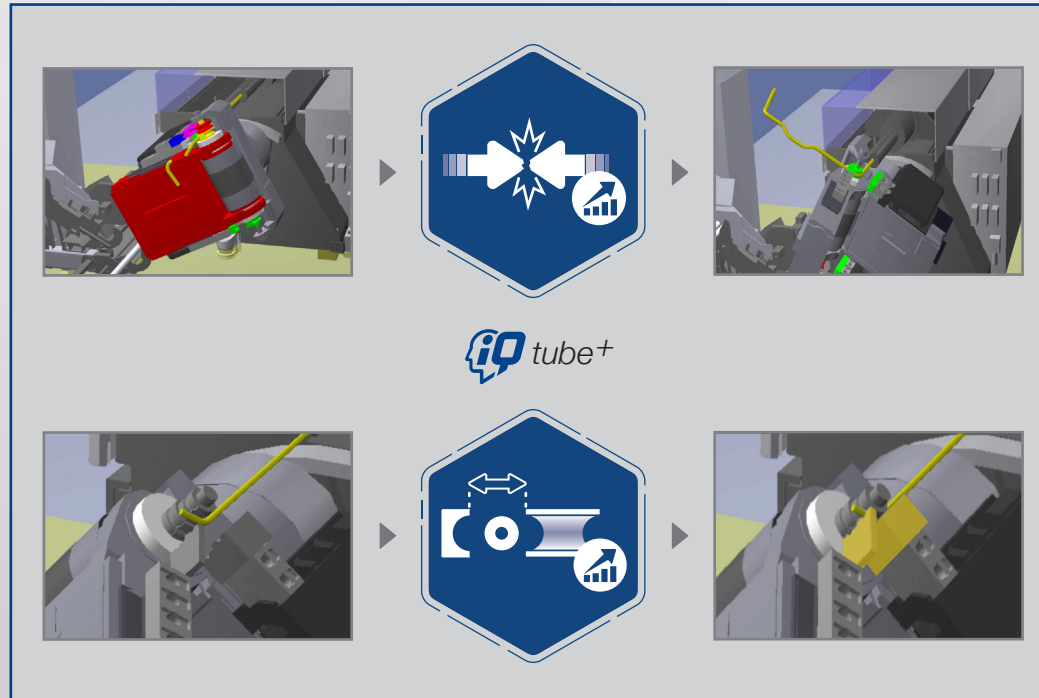


Feasibility simulation  
before the bending  
process

## 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
- At the same time, however, the set-up process should be as fast as possible to minimize downtimes

## Solution



- With *iQtube+* 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 opening paths of the clamping jaw and backstop unit can also be automatically optimized which increases the output significantly

## Requirements

- Application of WAFIOS Tools
- Geometrical programming