

Precision Machinery for Wire and Tube


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**Quality and
Performance
Enhancement by
Automatic Optimization
of Bent Parts**




 **smartbend**


for
bending machines




Increased output
with consistent
quality



Increased machine
availability



Less rejects during
set-up



Faster set-up

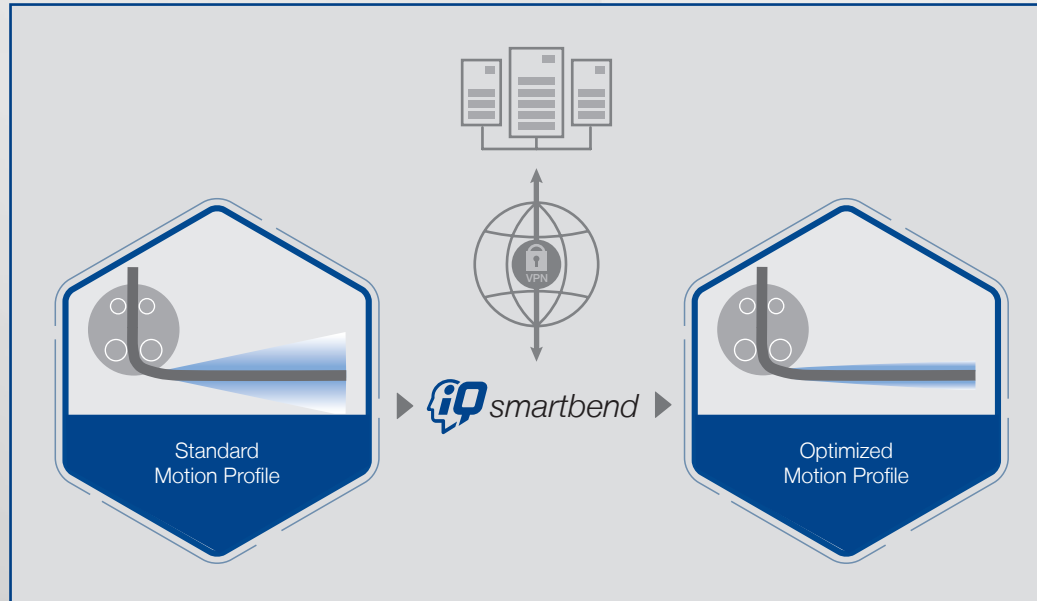


Operator assistance
through simplified
set-up process

Situation

- When bending long wire and tube parts, the work pieces frequently vibrate heavily due to the bending process
- Often, the required quality can only be achieved by slowing down and adjusting individual process steps manually
- This process is error-prone and increases costs due to a higher time and material consumption

Solution



- *iQsmartbend* automatically optimizes the vibration and output of bent parts
- The tool motion profiles are optimized automatically at the push of a button and are then transmitted to the machine
- An online interface to a WAFIOS computer cluster provides the required computing capacity
- The result is an NC program which reduces the vibration of work pieces and thus increases the output

Requirements

- WAFIOS VPN Connect
- Active *iQsmartbend* license
- Geometrical programming
- Standard bending operations