

Precision Machinery for Wire and Tube

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**In-Prozess-
Measurement and
Regulation of the
Bending Angle**



Automatic regulation
of up to 15 bending
angles per bent part



Enhanced and
consistently high
quality



Rejects are directly
detected and can
be sorted out



Measured values
can be saved and
exported across
entire series

 ***bendcontrol***

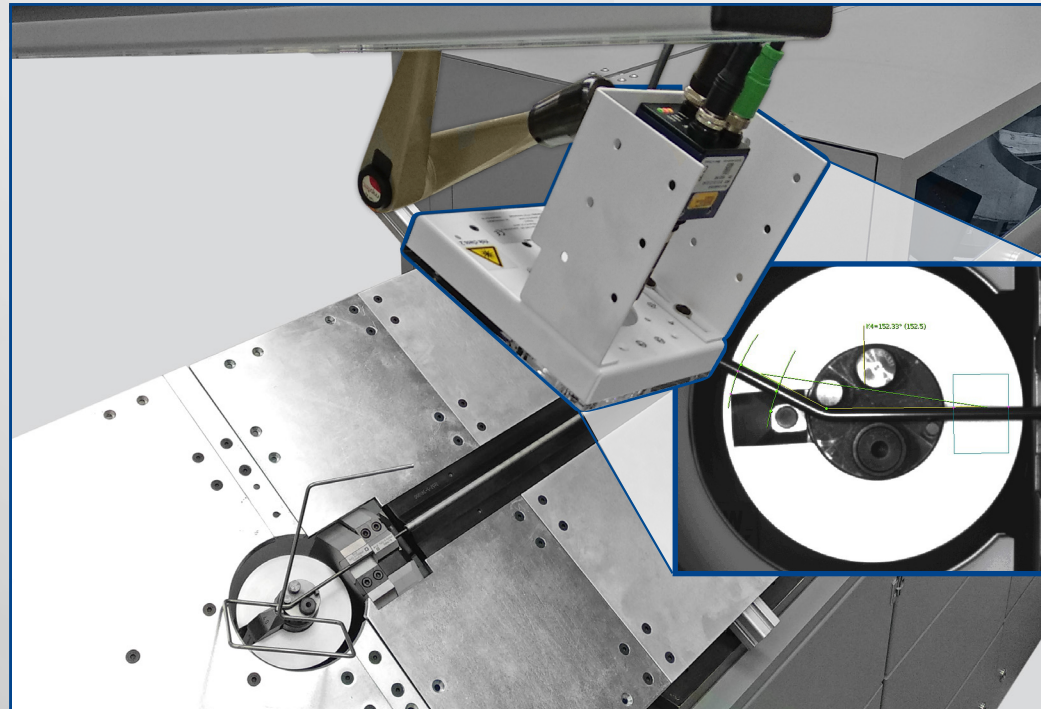
for

wire bending machines

Situation

- Currently, bending angles are measured after the bending process
- This requires either expensive measuring systems or gauges that have to be manufactured at high costs
- The actual bending process must be completed before its quality can be assessed
- Therefore, rejects are produced until the error is detected and manually corrected by the operator
- When placing bent parts into gauges, the operators' subjective assessment plays a decisive role
- Therefore, uncertainties in the quality control are possible

Solution



- *iQbendcontrol* enables in-process measurement and regulation of the bending angle by means of a camera system directly after the workpiece's spring-back movement
- The measurement of short bending angles is enabled by a special reflector plate, mounted directly on the bending head
- The subsequent regulation of the measured bending angles reduces variation and ensures a consistently high level of quality

Requirements

- Measurability of parts is checked by means of the component drawing