



## *bendcontrol for bending machines*

# In-Process-Measurement and Regulation of the Bending Angle

### 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.

### Your benefits:

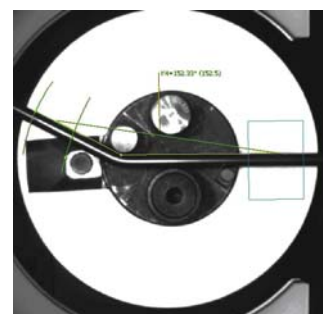
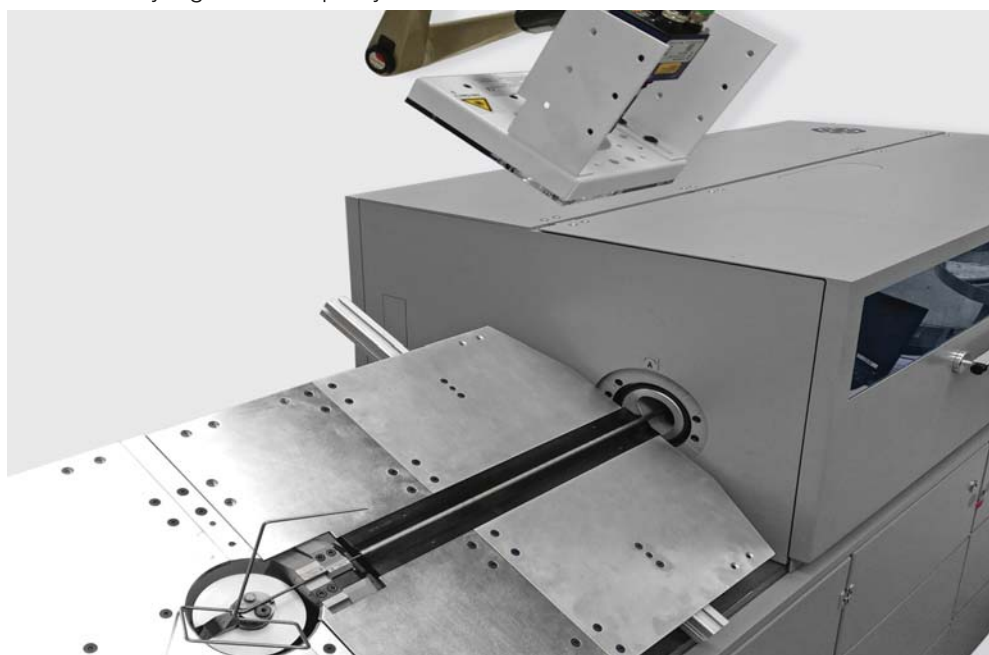
- Automatic regulation of up to 15 bending angles per bent part
- Enhanced and consistently high quality
- Rejects are directly detected and can be sorted out
- Measured values can be saved and exported across entire series

### Requirements:

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

### Available machine types:

- BM machines
- BMU machines
- Compatible machine sizes on request



**WAFIOS Machinery Corp.**  
27 Northeast Industrial Road  
Branford CT, 06405 USA  
Phone: (203) 481-5555

Fax: (203) 481-9854  
sales@wafios.us  
www.wafios.us

**Midwest Technical Center**  
9830 W. 190th Street, Unit D  
Mokena, IL 60448 USA

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