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Precision Machinery for Wire and Tube

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Work Piece and Tool Breakage Control via Monitoring of Motor Torques



for wire bending machines

Automatic stop of the machine in case of work piece or tool breakage Decreasing downtimes Reduction of repair costs Reduction of operating errors Increased security

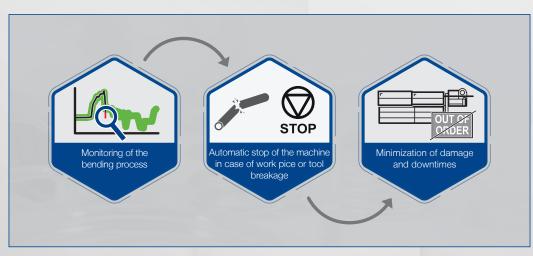
during unmanned

Note scope of delivery and restrictions in quote © WAFIOS AG 2024 en. - C02/24

Situation

Solution

- If the breakage of a work piece during the bending process is not detected, the bending tools and the bending machine itself may get damaged
- The machine may be stopped and unplanned downtimes and high repair costs can be the result
- In case of critical bending sequences an operator must therefore always be present to monitor the bending process



- *iQtorque* for bending machines detects work piece as well as tool breakages and stops the machine automatically, either immediately or at the end of a cycle, depending on the settings used
- Possible damages to machine and tools are minimized
- The individual machine axes are monitored by an envelope curve of the motor torque

Requirements

- No changes to the bending process once the axes are monitored, e. g. changing the override
- Only available for machines that are equipped with a Beckhoff control
- Additional equipment is not monitored, e. g. bending-afterthe-cut unit
- In-process monitoring starts from the second workpiece