

In-Process-Control of
Spring Length, End
Position and Diameter



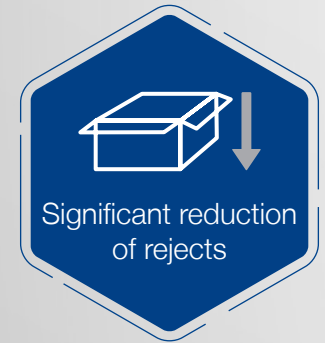
for
compression spring coilers



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Significant reduction
of rejects



Enhanced machine
capability

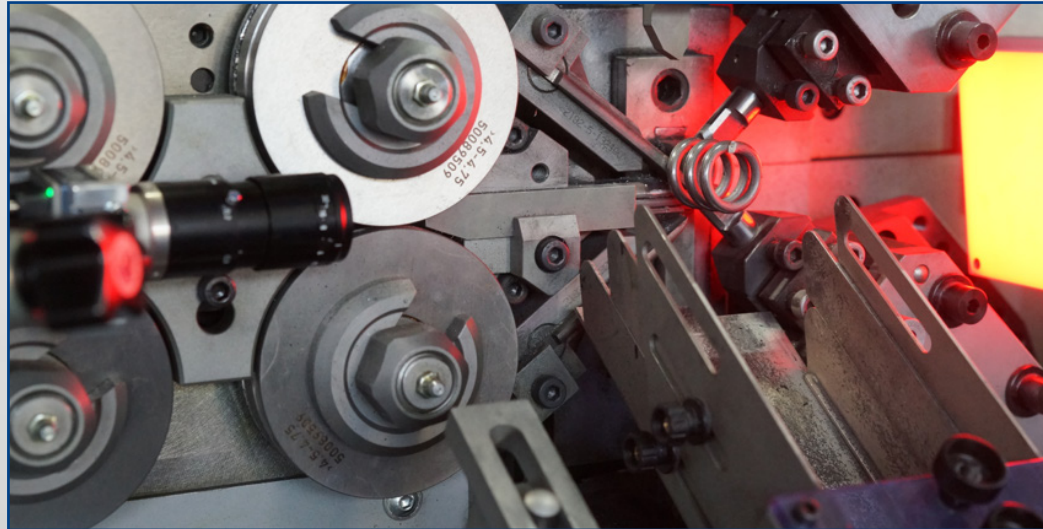


Increased process
reliability

Situation

- Fluctuations in wire properties as well as changing external conditions result in variations in spring length and diameter
- Standard control systems only correct the following spring and are thus not able to compensate the individual fluctuations of every spring
- This results in rejects and a corresponding increase in material and production costs

Solution



- *iQcontrol* uses one or more high-resolution cameras to measure the spring during the coiling process before it is finished
- Based on the subsequent calculations, the currently produced spring can be corrected even before the coiling process has been completed
- Thus each spring is corrected individually and during the production process
- As a result, *iQcontrol* significantly reduces the variation of spring length and diameter, and is thus ensuring enhanced and more consistent quality

Requirements

- Preliminary verification of function by means of a spring drawing