WAFIOS

Automatic Pitch and Diameter Correction with an External Measuring Device

iQ autopitch

for

compression spring coilers

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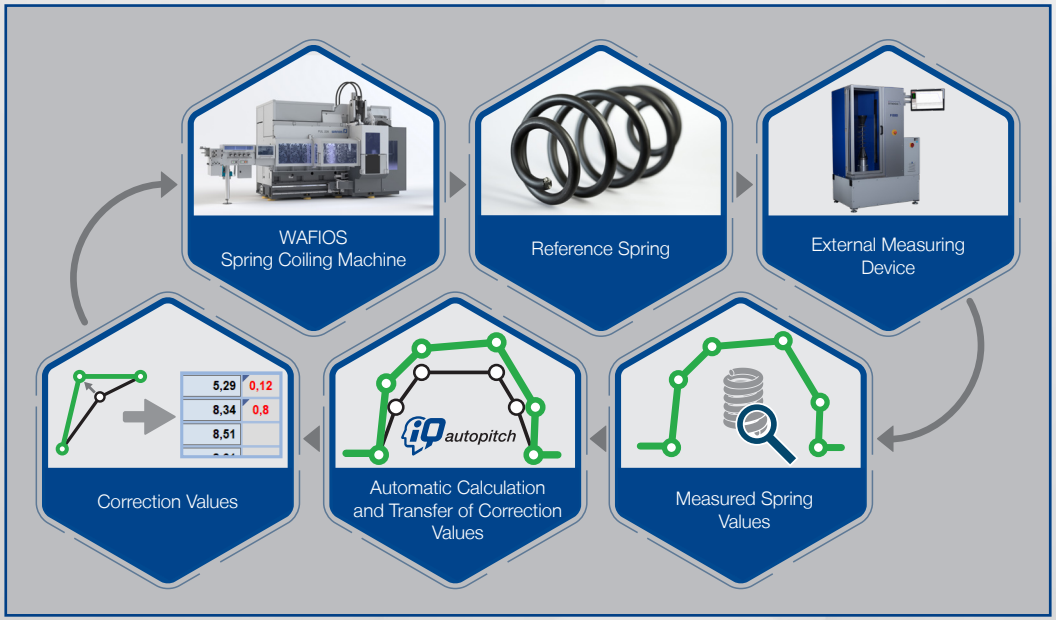
- Increased machine availability
- Less rejects during the set-up
- Faster set-up
- Process control also for large batches
- Operator assistance through simplified set-up process

Situation

- Setting up springs on a spring coiling machine is very time consuming and thus decreases the machine availability
- Furthermore, reject springs are produced until a dimensionally stable spring is achieved

Solution



- With ***iQ**autopitch* the spring's pitch and diameter can be automatically corrected
- The pitch and diameter of a spring are measured by an external measuring device and the measured values are compared to a reference spring stored in the system
- The resulting correction values for the pitch and diameter are automatically calculated by ***iQ**autopitch* and are then transferred to the geometry data in the WPS program
- The next spring produced is thus adjusted to the stored target geometry
- Due to this process, only minor manual adjustments are necessary even when complex spring geometries are produced

Requirements

- Suitable measuring device
- Existing reference spring
- WPS program of the reference spring
- Basic mechanical setting of the machine in accordance with the WPS program
- Preliminary verification of ***iQ**autopitch* function by means of a spring drawing