

Spring Gauge



The Spring Gauge is able to inspect a wide range of different springs

Accurate spring dimensions are essential when using the spring for medical devices or other critical purposes. In production of springs the dimensions may vary, e.g. when applying a new coil to the coiling machine. The Spring Gauge system is a sampling inspection machine. It is compact and will fit any standard desk. The system can perform a number of dimensional measurement of the entire spring, but also detailed measurements of the end hooks.

The system can be used as a tool, when adjusting the coiling machine to produce a new type of spring. The measurement system is also a great tool for sampling, when used to verify that springs are within specifications and visualize variations from coil to coil.

The output from a batch is a report. It contains statistical data such Cc, Cp and Cpk with timestamp, comments and charts of all measurements. Data can be exported as Excel, CSV, PDF or other custom formats.

Features

- Standalone unit with compact design
- High dimensional accuracy
- Traillog of all activities
- Report in Excel format
- Very intuitive HMI

General

Inspection time:	10 s/spring
Camera:	High resolution CMOS
Spring size:	Length <45mm, Ø11mm (other sizes on request)
Operating temperatures:	+5° C - 45° C
Humidity:	20-80% non condensing
Power:	110V, 60Hz or 230V, 50Hz
Lens:	Special telecentric optics
Computer:	Industrial vision PC
Monitor:	21" flat screen
Lamp life:	+ 3 years
Dimensions: W x H x D	1.03 x 0.56 x 0.46 m

Measurements

Dimensions	Spring length/diameter Hook height/length/tilt/opening Accuracy > 10µm
Angle	Angle between hooks Accuracy > 1 degree

Interface

Vision input/output:	Data export via RS-232, Ethernet or USB.
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Close-up of Spring Gauge system

Company Profile



JLI vision a/s develops, designs and manufactures dedicated turnkey vision systems for the international industry.

With more than 30 years of experience, JLI is among the oldest companies in the computer vision field. Our customers include well known international companies. JLI works in many different industries ranging from food processing to material handling, glass, steelworks, pharmaceutical, plastics and packaging.