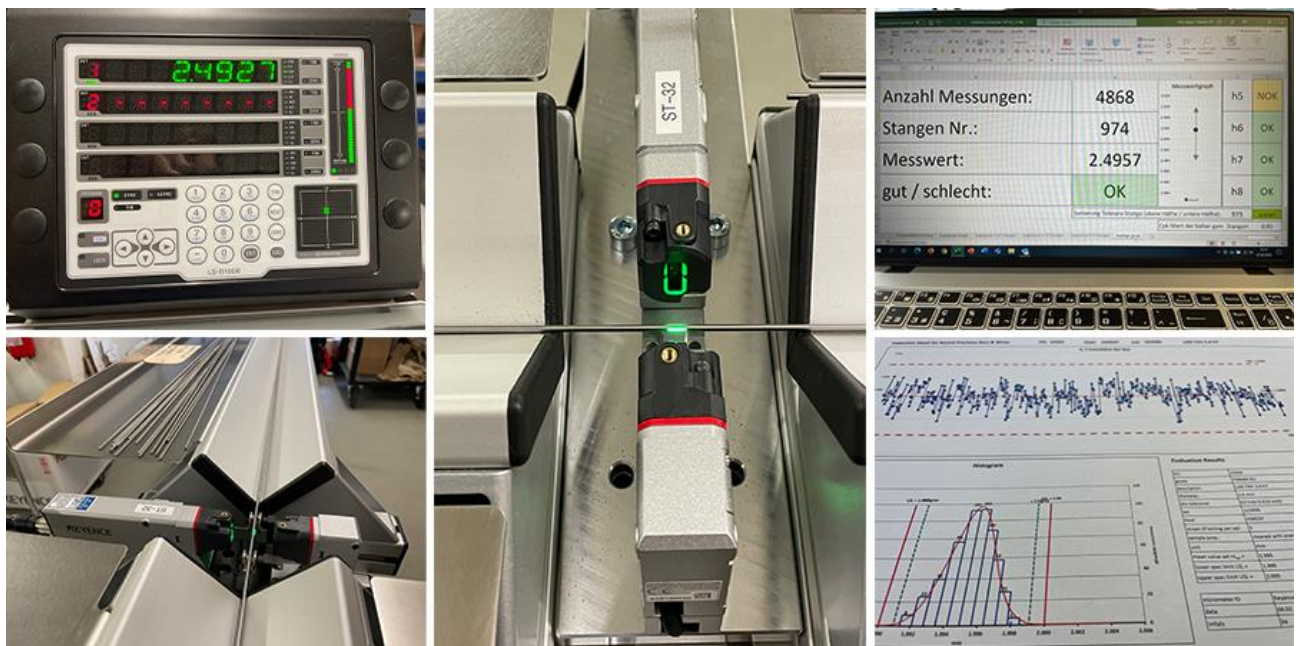


NEWSLETTER – New service: measuring of bars

Optical micrometer for diameter measurement

A new service from Signer Titanium: Precise measurement of diameters in the range 0.1 mm to 5 mm. For this purpose, we have invested in a high-precision optical measuring device, including measuring equipment for up to 3 m bar length and a specially developed analysis tool based on Excel. The capability verification of the measuring device showed a process-safe measurement up to tolerances of 0.002 mm, the accuracy of the measuring device is +/- 0.5 micrometer. The measuring system was validated.

In order to be able to work trouble-free with automated production equipment, the accuracy of the raw material is very important. Customers are increasingly asking for high-precision thin bars in the tolerance range h7, h6 and also h5. With some customers we have already successfully measured round bars or sorted them according to tolerance to ensure trouble-free production. The measuring system can also be used for documentation purposes or problem analysis.



The device for round bars up to approx. 3 m in length allows efficient measuring of the bars. Round bars can be measured at any number of points (usually 5 measurements per bar) and the analysis is then output as a whole and per bar. Important parameters are minimum, maximum and average values, ranges as a whole and per bar as well as the process capability index Cp and Cpk. The evaluations are supplemented with descriptive graphics of the measuring points as a running diagram and as a histogram.

Please do not hesitate to contact us if you have any questions about our measuring possibilities on round bars and wires.