

Press release

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One for all

The "Swiss army knife" among the presetting machines makes sure of cost-efficiency and excels with easy operability

Rohde & Schwarz Teisnach, since 1969 part of Manufacturing Service of Rohde & Schwarz GmbH & Co. KG, manufactures a truly diverse spectrum of parts at its facility in the Bavarian Forest. Besides manufacturing for the parent company, the factory also serves as service partner for the contract manufacturing of mechanical and electrical components. ZOLLER is present with a total of eight presetting and measuring machines in the areas of tool and mold making, the manufacturing of individual parts and, in future, also tool grinding. The multi-talent »redomatic« from ZOLLER provides accuracy and cost effectiveness in serial manufacturing – as well as being extremely operator-friendly.

Extensive vertical production

Some 1,400 skilled specialists manufacture individual pieces such as complex tools, through to large series and complex assemblies as well as electro-mechanical systems across all industries in Teisnach on an area over 62,000 m². Electro-mechanical assemblies, systems and bespoke special designs are manufactured for customers ranging from the automotive industry, through aeronautics and aerospace to medical engineering. Production is in small batches with extensive vertical manufacturing - up to 2,700 different parts, manufactured with all types of tools leave the CNC milling department every year at this facility.

The ZOLLER-»redomatic« has been in operation for six years. Every day some 100 to 150 tools are measured in this department, approximately 25 per cent of them shrunken, and loading a total of 25 machines. The parts to be manufactured have to have exactly identical dimensions. Shrunk tools accurate to hundredths of millimeters are required for the double spindles which run precisely in unison in order to achieve an exact result. Shrinking tools to length used to involve enormous manual and thus time expenditure – without being able to achieve the required precision. This problem was solved with the purchase of the ZOLLER »redomatic«: this allowed shrinking of tools easy and fast and with an accuracy of $\pm 10\mu\text{m}$ – convenient, automatically and absolutely process-reliable.



Rohde & Schwarz Teisnach, part of the Manufacturing Service of Rohde & Schwarz GmbH & Co. KG: Extensive vertical production on over 62,000 m² in the Bavarian Forest



Operator/User Franz Wölfl: "With the »redomatic« I can now nearly always achieve the required accuracy at the first attempt!"



Presetting – measuring – shrinking of up to 150 tools daily

High demands on process reliability and efficiency

The factory makes high demands on process reliability and efficiency. Next to excellent integration into the manufacturing process, demands included easy operability of the presetting, measuring and shrinking machine. Up to one hundred persons were to operate the machine!

"This was not the only aspect where there were no alternatives to ZOLLER", so Georg Kauschinger, project manager and head of CNC milling. "We have three expert operators/users, but all other 75 persons were able to operate the machine after basic training. If you like, it is self-explanatory." Today, all colleagues can operate the machine in three shifts if required.

Process reliability remains the key for efficient manufacturing. "Here we can rely 100% on the data from the ZOLLER machine", so Georg Kauschinger.

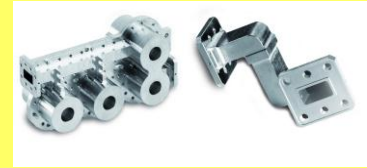
Before the »redomatic« was available it was extremely difficult to even approach accuracy. Franz Wöfl, operator/user since six years: "The tools had to be clamped five to six times to obtain the same length, these required a lot of effort and time – with the »redomatic« I can obtain the required precision virtually at the first attempt!"

The »redomatic« is already the second ZOLLER machine of this series – according to Franz Wöfl the main advantage of this latest generation model versus its predecessor is the continuity of the data from the tool request through to providing the measured tools. As soon as the tool number is entered, all the corresponding tool data is available and the dimensioned drawing is displayed. "This makes our job noticeably easier and avoids mistakes." Mistakes due to manual entering are thus excluded.

The ZOLLER »redomatic« thus presents the economical solution for shrinking, presetting and measuring tools to length precisely. This unique combination of presetting, measuring and shrinking machine, the "Swiss army knife of presetting machines", works with Haimer shrinking technology and is equipped with the operator-friendly ZOLLER-»pilot 3.0« image processing technology.

Another advantage of the new »redomatic« highlighted by the users at Rhode & Schwarz is the fully automated sequence of the measuring and shrinking procedure, particularly the automatic diameter presetting of the induction spool. Calibration is also virtually automatic – it just takes one minute every morning.

"There was no alternative to ZOLLER – it was the only machine on the market which met our requirements and offered the required precision combined with ease of operation".



Up to 2,700 different parts alone in small batches leave the CNC milling department in Teisnach every year.

kau



Energy-efficient: cooling unit of the ZOLLER-»redomatic«



Operator-friendly software interface – self-explanatory shrinking system



Project manager Georg Kauschinger, Rhode & Schwarz Teisnach (right) and Matthias Krämer, ZOLLER Sales Bavaria North

In the end, one of the unbeatable advantages proved to be the ZOLLER service: "As a rule our service is with you within 24 hours, and never later than 48 hours", confirms Georg Kauschinger.

Another feature in favor of the ZOLLER »redomatic« was the energy-efficient design – the cooler of the »redomatic« is only active when really needed.

Universal, flexible and unrivalled in terms of operator-friendliness, the "Swiss army knife among the presetting and measuring machines", a "colleague" which everyone enjoys working with efficiently.



ZOLLER »redomatic«: unique combination of presetting, measuring and shrinking machine

Rohde & Schwarz

The electronics company Rohde & Schwarz with headquarters in Munich, is the largest manufacturer of electronic measuring technology in Europe. For decades the product range has been regarded as the epitome in terms of quality and reliability by a host of industry sectors. The manufacturing facility in Teisnach has played a major role in gaining this reputation, making the "Made in Germany by Rohde & Schwarz" an internationally respected seal of quality.

The Rohde & Schwarz facility Teisnach in the Bavarian Forest has been part of the Manufacturing Services of Rohde & Schwarz GmbH & Co. KG since 1969 and also handles contract manufacturing for external customers.

www.teisnach.rohde-schwarz.com

E. ZOLLER GmbH & Co. KG

With great enthusiasm for inspection and measuring technology, E. ZOLLER GmbH & Co. KG, based in Pleidelsheim near Stuttgart, has been developing innovative solutions for increased efficiency in manufacturing processes for over 70 years. More than 30,000 presetting and measuring machines with internationally unrivalled software solutions have been installed to date worldwide. ZOLLER is increasingly moving from being a manufacturer of presetting and measuring machines to a globally operating provider of technology and system solutions. An international network of subsidiaries and agents guarantees maximum service quality through personal customer care.

About ZOLLER Inc.

In 1945, Alfred Zoller founded the company ZOLLER in Germany, which is today in its third generation. On March 1, 1997, ZOLLER Inc. was founded in Ann Arbor, Michigan. ZOLLER Inc. is providing sales and service to its customers within the U.S., Canada and Mexico for tool presetting, tool measuring and inspection machines, tool management software, heat-shrink systems and balancing machines.

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