

# World leaders in linear measurement...

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**Solartron Metrology is a world leader in the innovation and manufacture of precision digital and analogue dimensional gauging probes, displacement transducers, optical linear encoders and associated instrumentation.**

Headquartered in the UK, with sales offices in the Americas, Europe and Asia, and distributors in over 30 countries worldwide, around 90% of our production is exported.

In the lab, on the shop floor or in the field, Solartron Metrology products provide precise linear measurements for quality control, test and measurement and machine control in, for example, the automotive, electronics, aerospace, materials, optics and semiconductor industries... anywhere, in fact where accuracy and consistency are critical to the process.

The inherent reliability of Solartron Metrology measurement technologies reduces the cost of ownership, a big factor for many users.

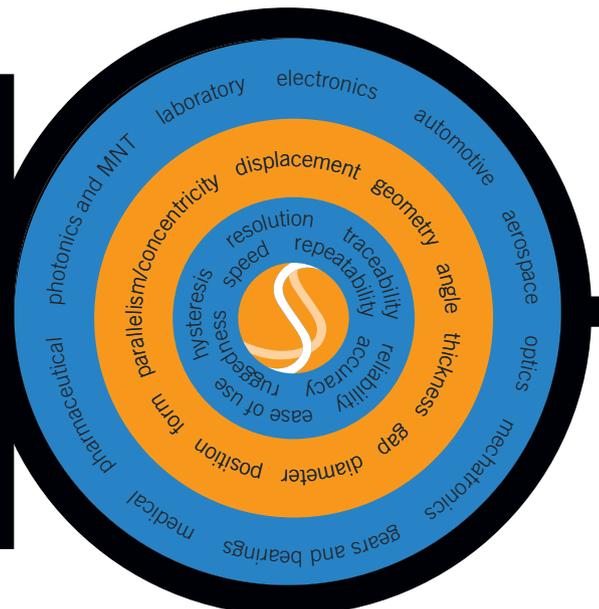
As mechanical components become smaller and more intricate, the accuracy of their manufacture is an increasingly complex challenge. Our latest smaller, more adaptable gauging products, including flexure, lever and mini probes, and block gauges are designed to address these problems. We also have a new

range of advanced displacement transducers, the S Series, engineered to interface with modern data acquisition and control systems.

The inherent simplicity and flexibility of the company's Orbit digital network system makes it the perfect platform for all these new measuring devices plus, of course, others in the pipeline.

Solartron Metrology recently became part of the Electronic Instruments Group of AMETEK Inc, a leading global manufacturer of electronic instruments and electric motors with annual sales of more than \$1.6 billion.

Rest assured that wherever you are, whatever your application, we have the technology, the commitment and the resources to help you make it better.



# ...with sixty years' continuous innovation

1946

**Solartron Metrology** has its origins in a company called Faroll Research who were formed in 1946 as a mechanical engineering company sub-contracting to the Admiralty. At the same time Faroll Research was engaged with Professor K. Weissenberg in the development of a Rheogoniometer, an instrument used to measure the properties of fluids and other non-Newtonian materials. The partnership between Faroll Research and Weissenberg flourished in that the Rheogoniometer became the world wide standard during the 1950's and 60's in the measurement and determination of fluidic properties such as viscosity, elasticity and thixotropic properties of many compounds. It was during the development of the Rheogoniometer that the first displacement transducer was used, this initially being purchased from a company called Boulton Paul Wolverhampton and was an essential measurement feature within the instrument.

1965

In 1965 Faroll Research was sold with its product range, including the Rheogoniometer, to Sangamo Weston Limited and became known as Sangamo Weston Controls Limited. During the latter part of the 1960's and into the 1970's Sangamo Weston continued to market and manufacture the Rheogoniometer and develop other instruments involved in various forms of physical measurement. It was during this period that Boulton Paul indicated they no longer wished to manufacture the displacement transducer and offered the product line to Sangamo Weston Controls Limited.

1976

After the acquisition of this new displacement transducer product line, Sangamo Weston Control developed it further to give a wider range for differing operational uses, and introduced a complementary set of signal conditioning electronics. In 1976 Sangamo Weston was acquired by Schlumberger and the Division in Bognor Regis became known as Sangamo Transducers. In 1979 Sangamo Transducers produced its first gauging transducer using a linear ball race which gave significant advantages in repeatability over the products available on the world market at the time.

In the 1980's Sangamo Transducers continued to develop complementary products to the displacement transducer adding further models to the range, and at the same time extending the signal conditioning electronics to add computer system capability for the user. It was during this period the Rheogoniometer, originally developed by Dr. Weissenberg, began to decline in sales as newer techniques and technologies became available and in 1985 this product line was sold to another U.K company.

1985

From this period in 1985 Sangamo Traducers became known as Schlumberger Industries, Transducers Division, Bognor Regis. They concentrated solely on the manufacture of displacement transducers, gauging transducers and supporting electronics to the point that they became recognised as a world leader in this form of technology with products being sold throughout the western world.

1993

In November 1993, following a management buyout, the Transducer Division became part of the Solartron Group Ltd and became known as Solartron Metrology. Then in April 1994, the ROXBORO GROUP PLC bought Solartron Metrology and the other Solartron Group Ltd companies.

2006

In 2005, three of the Solartron group companies, including Solartron Metrology were acquired by AMETEK, a leading global manufacturer of electronic instruments and electric motors.



Solartron Metrology manufactures all performance-critical components to the most exacting standards.

The honing machine shown here represents an investment of over £400,000

Process	Performance
Grinding:	< 1 $\mu$ m (3 - 10mm o/d)
Honing:	< 1 $\mu$ m (down to 4.2mm i/d)
Calibration:	Accuracy to $\pm$ 0.1 $\mu$ m (traceable) Repeatability to 0.05 $\mu$ m (six sigma)

