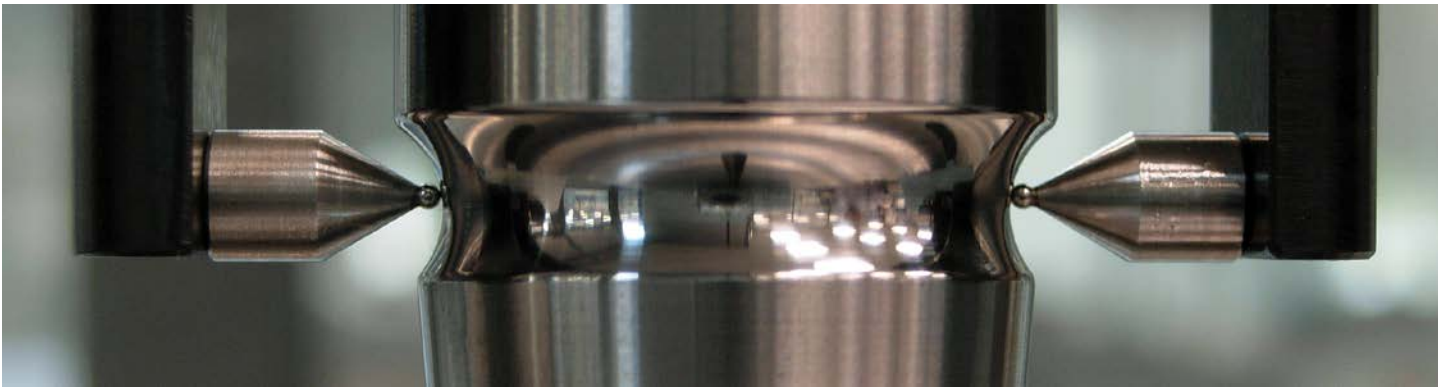


APPLICATION NOTE

Microrectif – No Compromise on Precision

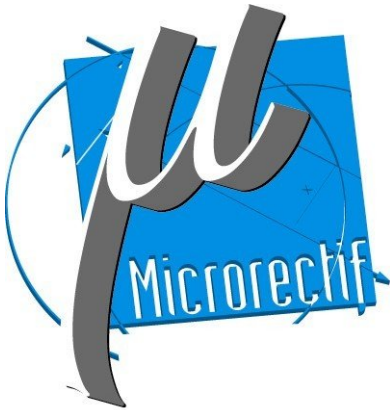


Founded in 1989, the Microrectif company is expert in machining and very high precision grinding. Specialized in one-off part and small series production, Microrectif has one of the most performing machinery equipment of the market and is therefore able to satisfy the most demanding requests.

Precision is number one in Microrectif priorities. Trimos was therefore naturally contacted in order to equip their metrology laboratory with the best dimensional solution available :
Labconcept Nano

Introduction

Microrectif philosophy is to offer first-class service in the fields of machining and very high precision grinding. Prestigious names of aeronautical, nuclear, medical industries and research laboratories are to be found among Microrectif customers.



Microrectif, High Precision Mechanics - Saint Etienne - Loire - Rhône Alpes - France
www.microrectif.com

In order to ensure the highest precision of the manufactured parts, Microrectif has fully air-conditioned production workshops, as well as an ultra-performing metrology laboratory.

Issues

The requirements of Microrectif customers are more and more demanding and frequently under the μm . Current existing measuring solutions do not allow to reach the requested precision level and eliminate the user's influence, which is an important source of error.

Microrectif has been therefore looking for a solution allowing to ameliorate the precision in a significant manner.

Solution Offered

The solution chosen by Microrectif is Labconcept Nano by Trimos. Its main assets are obviously to be found in its outstanding precision, but also in the 3 motorized axes allowing the automation of numerous measurements, and, as a result, the elimination of the user's influence.

The WinDHI software offers numerous parameters allowing to optimize the measurement in accordance with the customer's objectives, either productivity or precision. Precision remains the absolute priority for Microrectif. In the field of inner diameters measuring, for example, it will be possible to start a series of measurements that will be executed by the machine alone, away from all external influence.



Figure 2
100% automatic calibration of a high precision ring

Conclusion

The combination of an ultra-performing laboratory together with Labconcept Nano allows Microrectif to guarantee the highest precision level of the market.

Thierry Keist, Trimos SA



Figure 1
The Labconcept Nano installed in the outstanding metrology laboratory of Microrectif

Instrument
Probe for internal measurements
Max. permissible errors

Labconcept Nano 600
 TA-MS-370
 0.07 + L (mm)/2000

TRIMOS SA

Av. de Longemalle 5
 CH - 1020 Renens
 T. + 41 21 633 01 01
 info@trimos.ch
www.trimos.ch