



precote[®]

Thread Coatings



As a leading specialist in microencapsulation and the production of pre-coatable thread locking compounds, we also have qualified application engineering at our disposal. The consistently high quality of our **precote**® products is secured through our own 'in-house' development and production. It is a matter of course for omniTECHNIK that quality is always our top priority.

The dynamic growth of the past few years confirms that our strategy is correct and appreciated. We will continue to expand our global commitment together with our coating partners.

The omniTECHNIK Mikroverkapselungs GmbH,

an independent, internationally active company, owes its ongoing history of success to mature concepts and farsighted company leadership with the courage to adopt innovative ideas. Qualified staff, willing to fully commit to the company is the foundation upon which our success has been built.

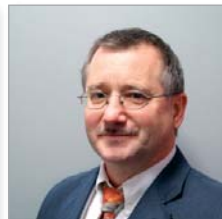
For more than 30 years now, we have been intensely involved in developing, manufacturing, and distributing pre-coatable thread-locking compounds. The final goal of all of our activities is to provide our customers with top quality products which fully meet their special requirements. We put this to the test each and every day. Our products have been launched world-wide under the brand name **precote®**.



Heinrich Kuhn-Weiss



Axel Hertneck



Anselm Weckerle



Adrian Price



Agron Berisha



Conny Hecht



Dr. Thomas Trübenbach



Dr. Karin Lüttke

TECHNOLOGY

High-grade products for our customers

The developments of **precote®** are based on the patented omniTECHNIK microencapsulation process and our staff's many years of manufacturing experience.

With our proven two-component acrylate systems, both reactive components are enveloped in a thin, natural polymer wall as a result of encapsulation and thus separated from one another.

precote® is produced by integrating the individual microencapsulated components within the lacquer-like, reactive binder. The **precote®**, applied in liquid form physically dries to create a dry, non-tacky and corrosion-inhibiting coating. Pressure and shear stress rupture the microcapsules when the pre-coated threaded parts are assembled. The liquid content mixes and hardens with the binder system. The desired locking and sealing effects are thus achieved.



APPLICATIONS

- Automotive industry and its suppliers
- Commercial vehicle manufacturing
- Aeronautical engineering
- Railway vehicle manufacturing
- Shipbuilding
- Plant and mechanical engineering
- Structural engineering and mining
- Household appliances and electrical engineering
- Communication technology
- Optical devices
- Sports equipment and additional industry- and customer-orientated solutions from A – Z.



Locking

precote® hardens quickly after assembly to provide reliable locking even at high temperatures and under dynamic transverse stress.

precote® completely fills the thread gap and, as a result, provides the required sealing effect even at high pressure levels.



Sealing



Assembly

precote® guarantees defined assembly values by means of optimised, uniform coefficients of friction.

precote® enables easy, non-destructive disassembly even after longer operating times at temperatures up to 850°C.



Disassembly

ADVANTAGES



- Economy**
- Automated high-volume coating lowers costs
 - Coated parts can be handled as bulk goods
 - Automatic feed and assembly possible
 - No additional handling costs
 - No planning and stocking of conventional locking and sealing materials
 - Enables easy, non-destructive disassembly
 - Coated parts can be stored for years at standard climatic conditions DIN 50014 27/65-2

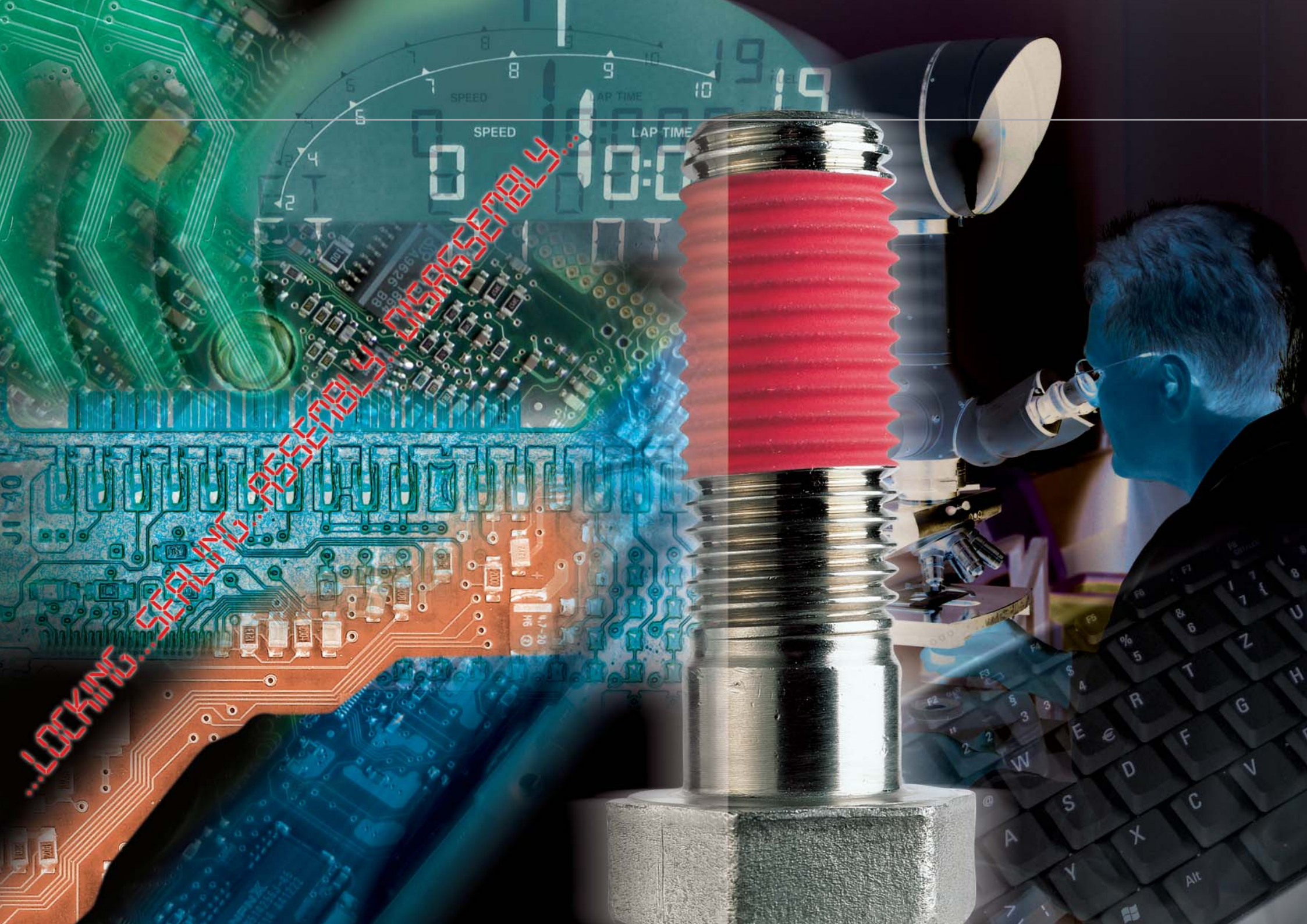
- Technology**
- Maximum locking with dynamic loads
 - Reliable sealing as a result of coating the entire thread
 - Uniform assembly values as a result of homogeneous material application
 - Excellent temperature resistance
 - Superior chemical resistance
 - Corrosion-inhibiting
 - Screw and locking element are combined, therefore no loss or omission of screw-locking element
 - Physiologically safe

SERVICE

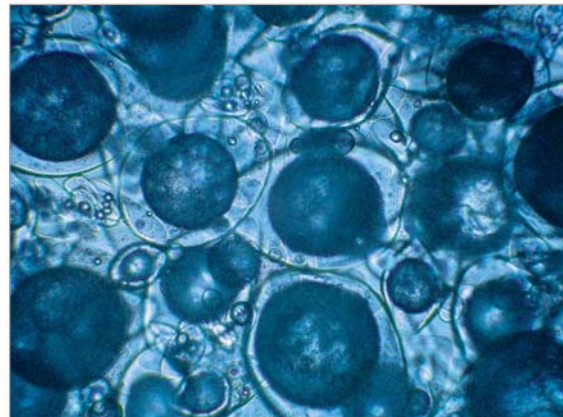


Consistent customer orientation makes omniTECHNIK an internationally preferred partner for manufacturers from a very wide range of industries. The key to our company's success is the very close co-operation with our customers, often over many years, as well as the reliable, guaranteed properties of our **precote®** products.





QUALITY

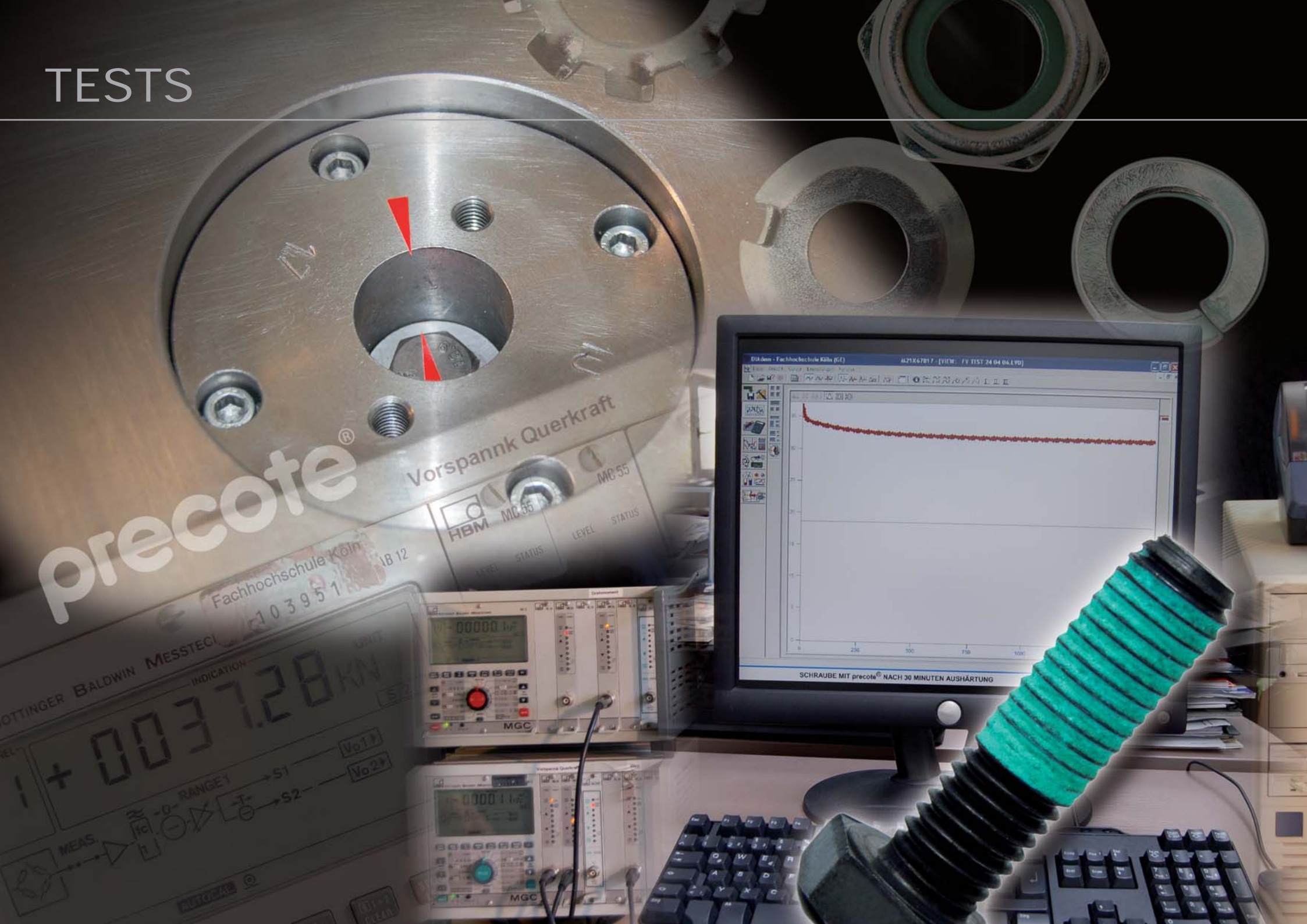


Quality means more to us than just delivering products which are unique and customer-orientated, meeting the toughest requirements and removing all dangers; it also comprises qualified consulting and optimum service.

precote® – Count on it!



TESTS



precote®

Vorspannk Querkraft

HBM

MC 55

LEVEL STATUS

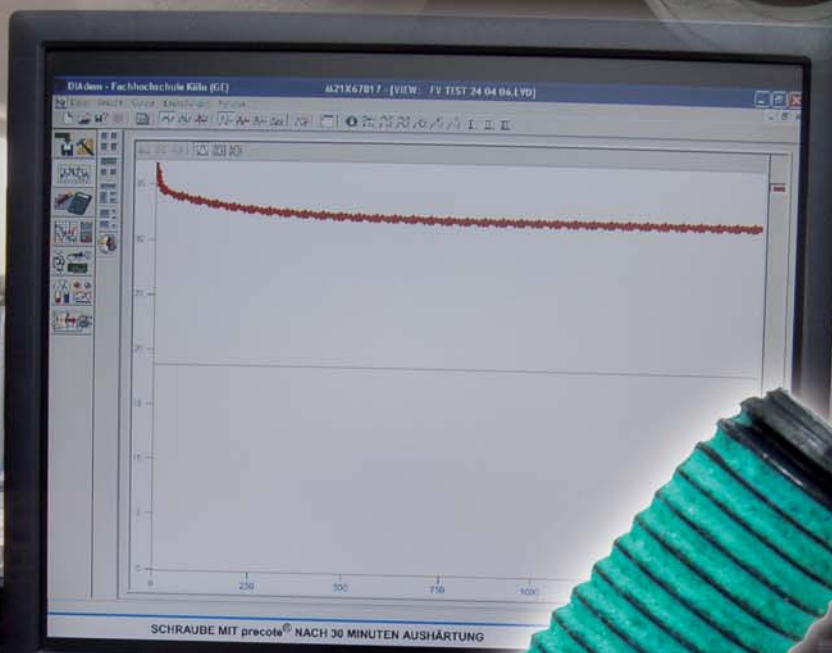
MC 55

Fachhochschule Köln
103951

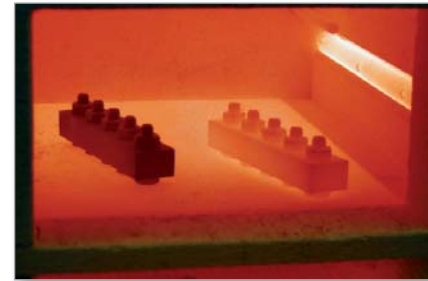
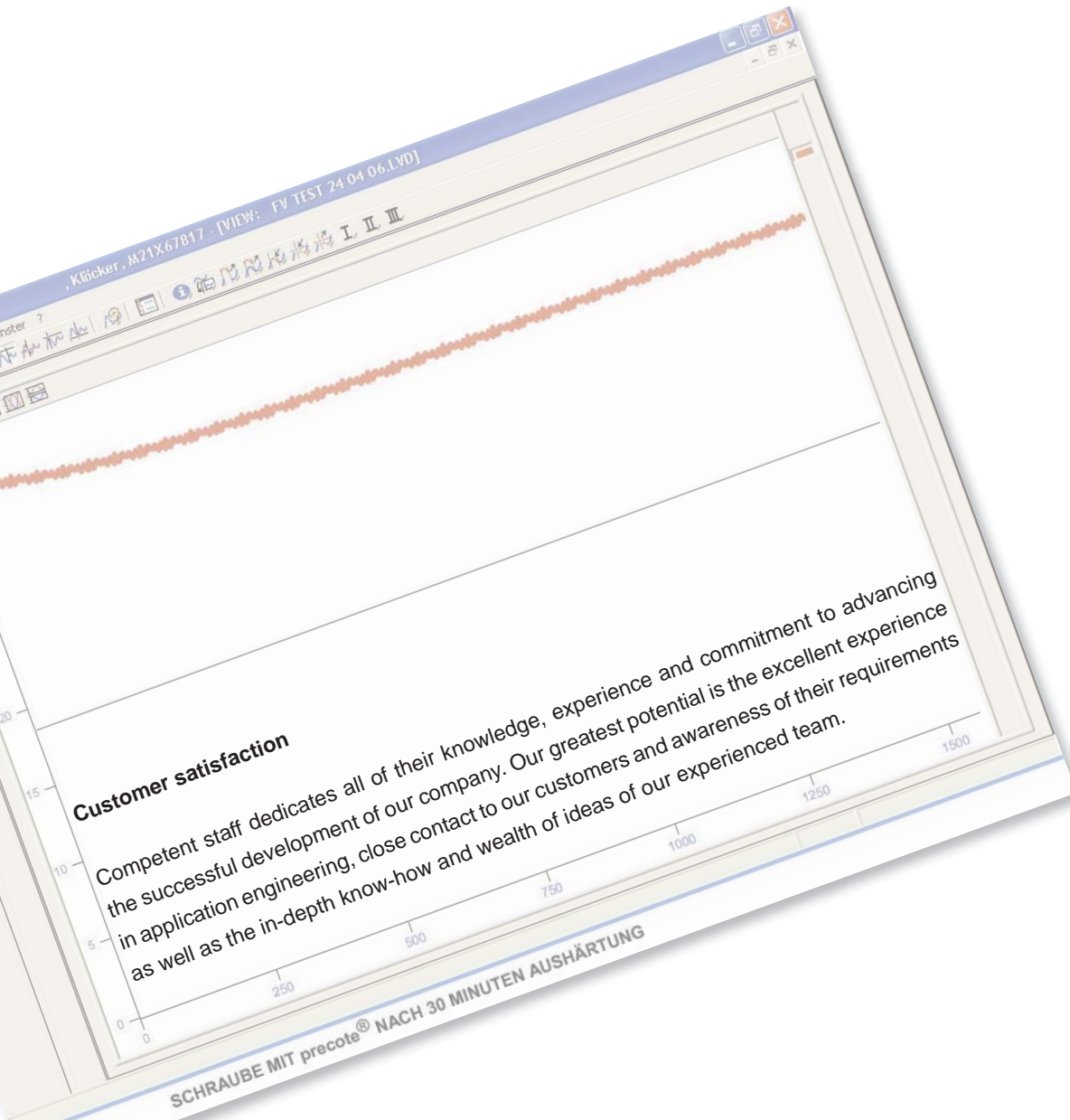
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INDICATION
+ 0037.28 kN
MEAS. RANGE 1 S1 S2
Vo 1 Vo 2
AUTOMAT
CLEAN

00000.00
MGC

0000.00
MGC



-60 TO +850 °C



Prior to release of our production batches, our products are put through precisely defined quality inspections and the results of these are documented in detail. Production samples are taken of **precote®** during each stage of the ongoing manufacturing process. These samples are laboratory checked to be in compliance with strict directives and tested for their physical as well as mechanical properties in our test facilities. This ensures the highest quality and long-term durability of our products.



