



PRÜFTECHNIK

PRUFTECHNIK GROUP A PORTRAIT

PROVEN QUALITY



PASSION FOR PRECISION

When small things matter the most

Trust our precision

With intelligent and precise measurement and testing systems, PRUFTECHNIK offers innovative solutions to customers in machine alignment, condition monitoring and nondestructive testing. We are driven to set global standards in precision measurement for the maintenance of rotating equipment and quality assurance.

Trust our experience

Established in 1972 by Dieter Busch, PRUFTECHNIK is a family-owned business now under the second generation stewardship of Dr. Sebastian Busch. Even as an established market leader in our field, we have retained our medium-sized business roots and traditions. With a lean structure, we remain flexible and efficient. Customers can trust PRUFTECHNIK, as we pride ourselves in being a reliable and competent partner—always available and responsive to their needs.

Trust our innovation

The spirit of discovery among the PRUFTECHNIK team, our drive to innovate and openness to new ideas, has only one goal: to offer our customers the perfect solution, anywhere in the world. Twenty operational marketing, service, development and production locations—exporting to more than 70 countries and employing more than 600 people worldwide—are more than sufficient proof.

The future is now. PRUFTECHNIK is not only prepared for tomorrow, we're helping to shape it.



Dr. Sebastian Busch
CEO



Dr. Thomas Rohe
COO

PREMIER SOLUTIONS FOR ALL INDUSTRIES

With our products and services for condition monitoring and availability optimization, we make sure that your rotating machines run with optimum efficiency to help you save costs and increase the reliability of your assets and plants. Our solutions also include systems for automatic process control and quality assurance that are integrated directly in your production process.



Precision Alignment

Laser measurement systems and services for optimum alignment of rotating equipment.



Condition Monitoring

Measurement systems for machine condition monitoring—including vibration analysis and fault diagnosis.



Nondestructive Testing

Systems and services for quality assurance and process control in production.



Service and Support

We offer services anywhere in the world to support our customers with alignment and condition monitoring. Our service and diagnostic center is certified by DNV GL (formerly Germanischer Lloyd).

ALIGNMENT SYSTEMS

We keep your world rotating

When shafts are well-aligned—with their axes colinear—machines run smoothly. Misalignment is the underlying cause for around 50% of all machine failures. The ensuing downtime, production losses and repairs can generate staggering costs.

The answer to these problems is laser-based precision measurement.

ROTALIGN® touch



db PRUFTECHNIK

OUR PRODUCTS AND SERVICES:



Shaft alignment

Our laser alignment systems measure to 1/1000 of an inch. They calculate the correction values needed to achieve optimum alignment and record the alignment condition.



Straightness and flatness

The straightness and flatness of surfaces, foundations, machine beds, tables and flanges can be measured down to 1/1000 of an inch.



Monitoring of positional change

Very small positional changes in machines can be recorded by a non-contacting method during operation. Machine operators use this information to initiate appropriate measures to compensate for shifts in position.



Alignment of bores and bearing shells

Laser systems now make it possible to objectively determine whether the axis of circular machine components—in turbines, for example—are aligned, and record the information for corrective purposes.



Roll parallelism measurement

Roll parallelism in paper, printing and converting machines is critical for product quality. Our unique measurement procedure makes it possible to quickly obtain precise information on the exact position of the rolls in the entire production system.



Alignment software

Our alignment software is used for preparing, transferring and analyzing measurement files and creating professional reports.

CONDITION MONITORING

Low-vibration, high-efficiency

Optimal production and smooth processes are only possible when machines run without vibration. Identifying problematic machine conditions and, more importantly, eliminating their causes is our business. We provide innovative vibration analysis and monitoring systems as well as experienced field specialists for a high service level.



OUR PRODUCTS AND SERVICES:



Data collectors and vibration analyzers

Portable measuring devices are used for the routine monitoring of machine conditions. When measurement values are elevated, the equipment delivers reliable information on the causes.



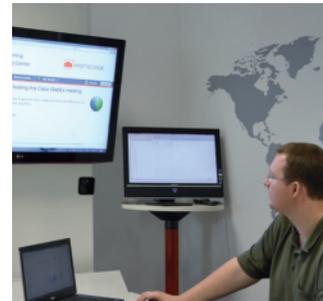
Machine protection systems

To ensure productivity where online monitoring systems do not yet appear cost-effective, machine protection systems are indispensable.



Online monitoring systems

Permanently installed measuring systems monitor production critical assets around the clock. Our monitoring software enables advanced diagnostics of machine health.



Certified diagnostic center

The Service and Diagnostic Center, founded in 2005, excels in offering know-how and 24-hour service in the following areas:

- ▶ Certified wind turbine monitoring
- ▶ Remote Monitoring Services
- ▶ Evaluation services (CPC)
- ▶ Load measurements (torque, bending moment, load distribution)
- ▶ Natural vibration and noise analysis
- ▶ Consultation and training

NONDESTRUCTIVE TESTING

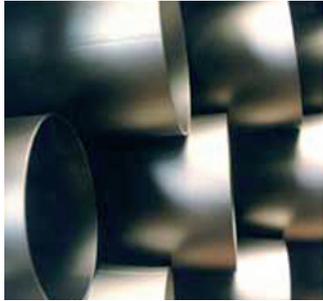
Only detected faults can be prevented

At PRUFTECHNIK NDT we ensure that manufacturers of semi-finished products and their customers obtain products of the best possible quality. Our eddy current and flux leakage testing equipment in the EDDYCHEK® and NOVAFLUX® series detect flaws in semi-finished metal products, which are then marked and separated out.

Our systems are also employed in the optimization of production processes and the reduction of scrap.



OUR APPLICATIONS ARE FOUND IN THESE AREAS:



Tube mills

Tube manufacturers use NDT devices coupled with a variety of sensors for tube leakage testing. The testing method meets the requirements of recognized international standards.



Special tubes

Special sensors and testers developed specifically for this application enable inspection of thick-walled tubing.



Hot rolling mills

Water-cooled sensors are used in eddy current testing at temperatures of up to 2,192°F (1,200°C) and at very high speeds to create flaw statistics and monitor production processes.



Wire production

Wire drawing lines and recoiling plants employ eddy current testing together with rotating systems, which excel in the reliable detection of longitudinal defects and grooving.



Bar mills

Producers of high-quality steel bars rely on our latest NDT product, a magnetic flux leakage tester, for detecting very small cracks and imperfections on black and bright steel bars.



Manufacture of formed parts

NDT testing equipment checks cold heading wire before it enters a cold former, without interrupting the production process. After forming, the defective parts are automatically separated out.

A TRADITION OF EXCELLENCE

Innovation and know-how

The PRUFTECHNIK Group employs 600 people worldwide—the high quality of our products and services rests on our commitment and know-how. We are also proud of our measurement laboratory that features a unique set of technical specifications—the granite measurement table and the 36-foot (11-meter) measurement bench, together with their foundation, tip the scale at 66 tons—with the sole purpose of ensuring the high precision of our measurement systems.

A career with PRUFTECHNIK

The continuous growth of our company allows us to offer our employees excellent career opportunities—both in Germany and internationally with our subsidiaries. We are always on the lookout for new, motivated and experienced colleagues to join us in achieving our goals.

PRUFTECHNIK offers a varied, challenging and top-notch training program with the latest techniques and approaches.

Certificates

Patents/trademarks	Approx. 300 patents worldwide (granted or pending) and approx. 150 globally registered trademarks.
Awards	IF Design, Red Dot Award, Product of the Year, Best Overall Solution Award, Design Award of the Federal Republic of Germany, and many more.
Quality management	Certified to ISO 9001 (since 1994)
Certificates	Our Monitoring Center and Online Monitoring System are certified by DNV GL (formerly Germanische Lloyd). Many systems are ATEX-certified (intrinsic safety). Authorized Economic Operator (AEO)



NEAR YOU ANYWHERE IN THE WORLD

International subsidiaries and partners



Headquarters

PRUFTECHNIK
Dieter Busch AG
Oskar-Messter-Str. 19-21
85737 Ismaning, Germany
www.pruftechnik.com

Sales partners

Sales partners and distributors for PRUFTECHNIK products and services are active on five continents in over 70 countries around the globe. Current contact data can be found on our website.

Sales and service subsidiaries

USA

PRUFTECHNIK Inc.
• Cleveland
• Philadelphia
• San Diego

Canada

PRUFTECHNIK Maintenance
Technology Service Inc.
Montreal

Brazil

PRUFTECHNIK Ltda
São Paulo

Great Britain / Ireland

PRUFTECHNIK LTD.
Staffordshire

France

PRUFTECHNIK S.A.R.L.
Petite Forêt

Italy

PRUFTECHNIK s.r.l.
Cesano Boscone (MI)

Spain / Portugal

PRUFTECHNIK, S.L.
Sant Just Desvern (Barcelona)

Poland

PRUFTECHNIK WIBREM sp. z o.o.
Wrocław

Belgium / Netherlands

PRUFTECHNIK N.V.
Antwerp

Russia

OOO PRUFTECHNIK
Saint Petersburg

Middle East / Gulf region

PRUFTECHNIK Middle East FZE
Dubai

Turkey

PRUFTECHNIK Ltd. Şti.
Istanbul

India

PRUFTECHNIK-AIMIL
Technical Services (JV)
New Delhi

South East Asia

PRUFTECHNIK S.E.A. Pte. Ltd.
Singapore

China

PRUFTECHNIK Shanghai
Shanghai

Japan

PRUFTECHNIK K.K.
Tokyo

Thailand

PRUFTECHNIK S.E.A. Thai Office
Bangkok

PRUFTECHNIK

Proven technology for all industries

With our products, processes and services for alignment applications, condition monitoring and availability optimization, we help ensure that your machines run smoothly and generate an output of consistently high quality. This also includes systems for automatic process control and quality assurance that are integrated directly in your production process.

PRUFTECHNIK delivers maintenance solutions worldwide



Alignment Systems

Laser measurement systems and services for optimum alignment of machines and systems.



Condition Monitoring

Measurement systems for machine condition monitoring—including service such as vibration analysis and fault diagnosis.



Nondestructive Testing

Systems and services for quality assurance and process control in production.



Service and Support

We offer professional services anywhere in the world to support our customers with alignment and condition monitoring.



Approval of Air Carrier Security Programs

www.pruftechnik.com

OPTALIGN®, ROTALIGN®, SHAFTALIGN®, ALIGNEO®, INCLINEO®, smartALIGN®, AXALIGN®, PARALIGN®, LEVALIGN®, pocketALIGN®, NOVALIGN®, BORALIGN®, PERMALIGN®, CENTRALIGN®, EDDYTHERM®, CSDchek®, HYDRALIGN®, LAMIBLOC®, PERMABLOC®, VIBROTIP®, VIBSCANNER®, VIBXPERT®, VIBCODE®, VIBREX®, VIBROWEB®, VIBNODE®, VIBRONET®, VIBROTECTOR®, TIPTECTOR®, TIPTREND®, WEARSCANNER®, OMNITREND®, EDDYCHEK® and NOVAFLUX® are registered trademarks of PRUFTECHNIK Dieter Busch AG. No copying or reproduction of this information, in any form whatsoever, may be undertaken without express written permission of PRUFTECHNIK Dieter Busch AG. The information contained in this leaflet is subject to change without further notice due to the PRUFTECHNIK policy of continuous product development. PRUFTECHNIK products are subject to patents granted or pending throughout the world. © Copyright 2016 by PRUFTECHNIK Dieter Busch AG.

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