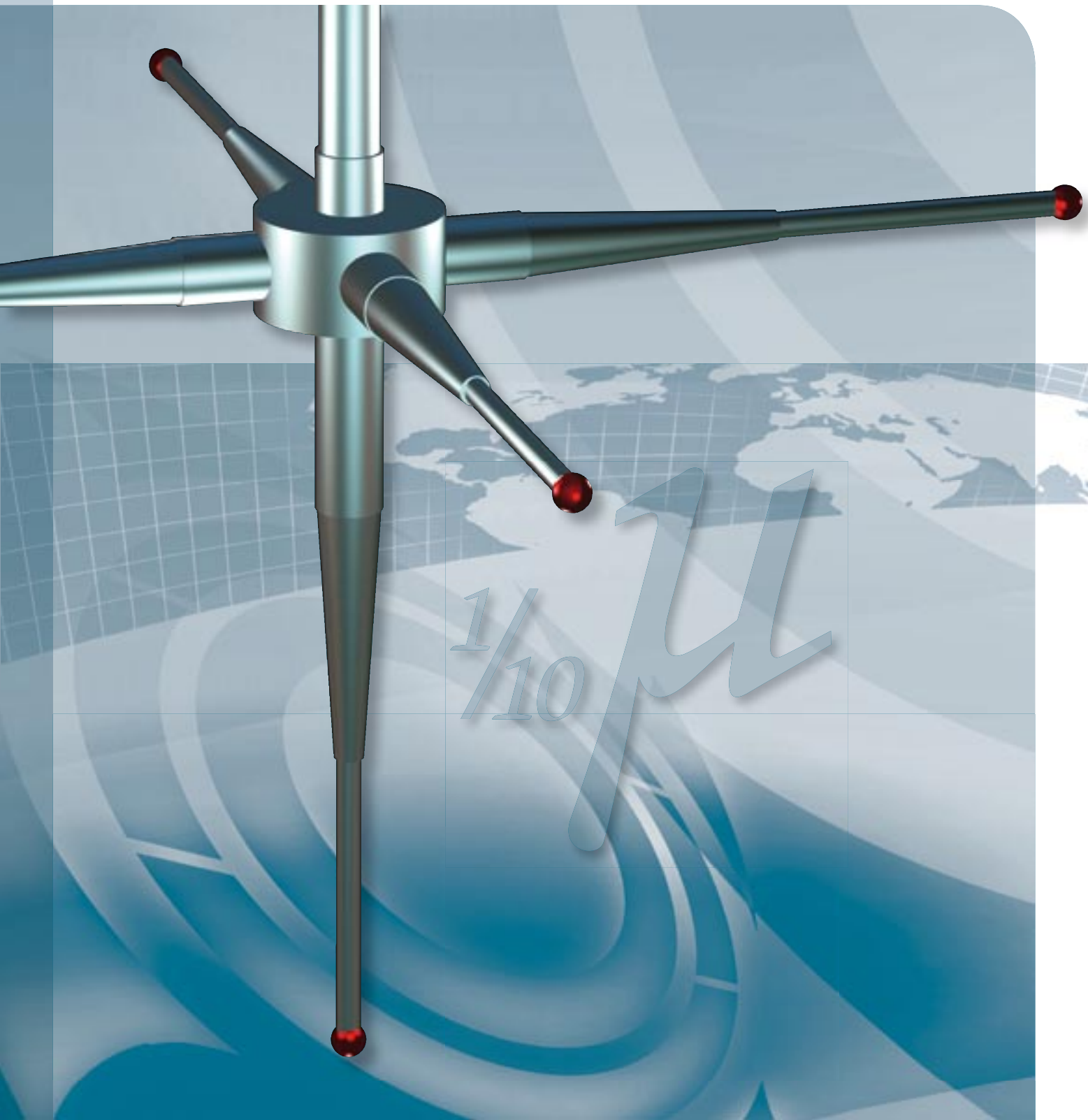


BLUM
focus on productivity





COLUMBUS
Die beste und verbreitetste Lehre
D. R.-Pat. Ausl.-Patent (8437)
!!! Sie besitzen durch jede
Werkzeughandlung
den Vorzug und achte genau **Columbus**
auf die geschätzte Wertsachen
Eugen Weber, Stuttgart-W.,
Sassefahstr. 22.



Preface

In 1968 when I founded the BLUM-Novotest Company as an engineering office for the machine tool industry I had the vision to combine innovative mechanical engineering with electronics to design new and much more efficient machines.

While studying aircraft engineering I became familiar with the latest technology of the time. The machine tool industry in the Sixties was still very close to its mechanical roots.

I realized the opportunity to establish a business with creative ideas in the rapidly growing machine tool industry. The solutions available at the time were not sufficient to meet the highly technical market demands. It was only with our own engineered solutions that my business idea became successful.

Over the years our product lines changed from machine tool engineering and the production of interface controls to today's Production Measuring Machines, Test Stands and Machine Tool Measuring Components.

In the recent years we entered the global market with both proven as well as innovative new products. Our distributors consist of "System Integrators" which guarantee full service capability for our products.

Today a network of BLUM-Novotest subsidiaries and System Integrators provide full service coverage in all major markets of the world.

Günther Blum



Günther Blum

The initial vision, complemented by Software Technology, best service and application support, remain the key factor for our strategy. From the beginning BLUM-Novotest was driven by all in the business working shareholders as well as every single hard and responsible working employee.

As before, it is BLUM-Novotest's goal to provide innovative measuring and testing technology in the Automotive, Aircraft and Machine Tool Industries, as well as many other industries.

"focus on productivity", your productivity, that is what BLUM-Novotest is standing for in a time when you and your customers are facing more and more the challenges of global competition. As a reliable partner to you, we are following our guideline of keeping highest quality standards at competitive prices. We support you in the optimisation of your processes to put you in the position to provide highest quality at competitive prices to your customers.

This brochure provides an overview about the three business divisions of BLUM-Novotest.

Detailed brochures of all our products will be submitted on demand or can be downloaded from our website at any time.

Please contact us with your questions or suggestions relative to our products and services.

Alexander Blum



Alexander Blum



LaserControl NT

Laser measuring technology in the 3rd generation with integrated microprocessor

- tool setting, in length and radius
- tool monitoring and wear control
- tool identification
- compensation of the machine axes
- single cutting edge control at any speed
- runout control

Your advantages

- reduced set-up time
- unmanned operation
- reduced scrap rate
- increased productivity
- high production quality



LaserControl NT-H

hybrid laser for thermal compensation of all machine axes



RunoutControl

with the new software runout control the tool is checked within seconds for run out. Tool changing and clamping errors are fast and reliably identified.



ToolTipControl

ToolTipControl enables fast measuring of turning tools and fine boring tools.



Service

World wide Service and qualified consultation

- training
- retrofit
- set-up
- software development
- customer specific solutions



Probe and IC55-Family

for machine tools



Probe TC50/TC51/TC52

Probe system for workpiece measurement

- very high acceleration and measuring speed
- precise non-lobing touch characteristics
- extended battery life
- no wear opto-electronic signal generation
- robust design

Your advantages

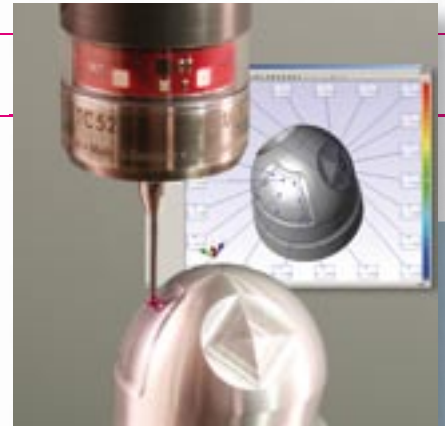
- reduced set-up time
- reduced scrap rate
- increased productivity
- high production quality



FormControl

Contour measurement in the machining centre

- fast detection of machining errors
- immediate rework in initial set-up
- ADIF – entire measuring sequence executed with one mouse click
- shopfloor-orientated operation



FormControl

BG40/BG41

High precision measuring of bores

- on-machine measuring
- extremely fast measurement and data transmission
- calculates tool compensation values, machine independent measurement



BG40

IC55

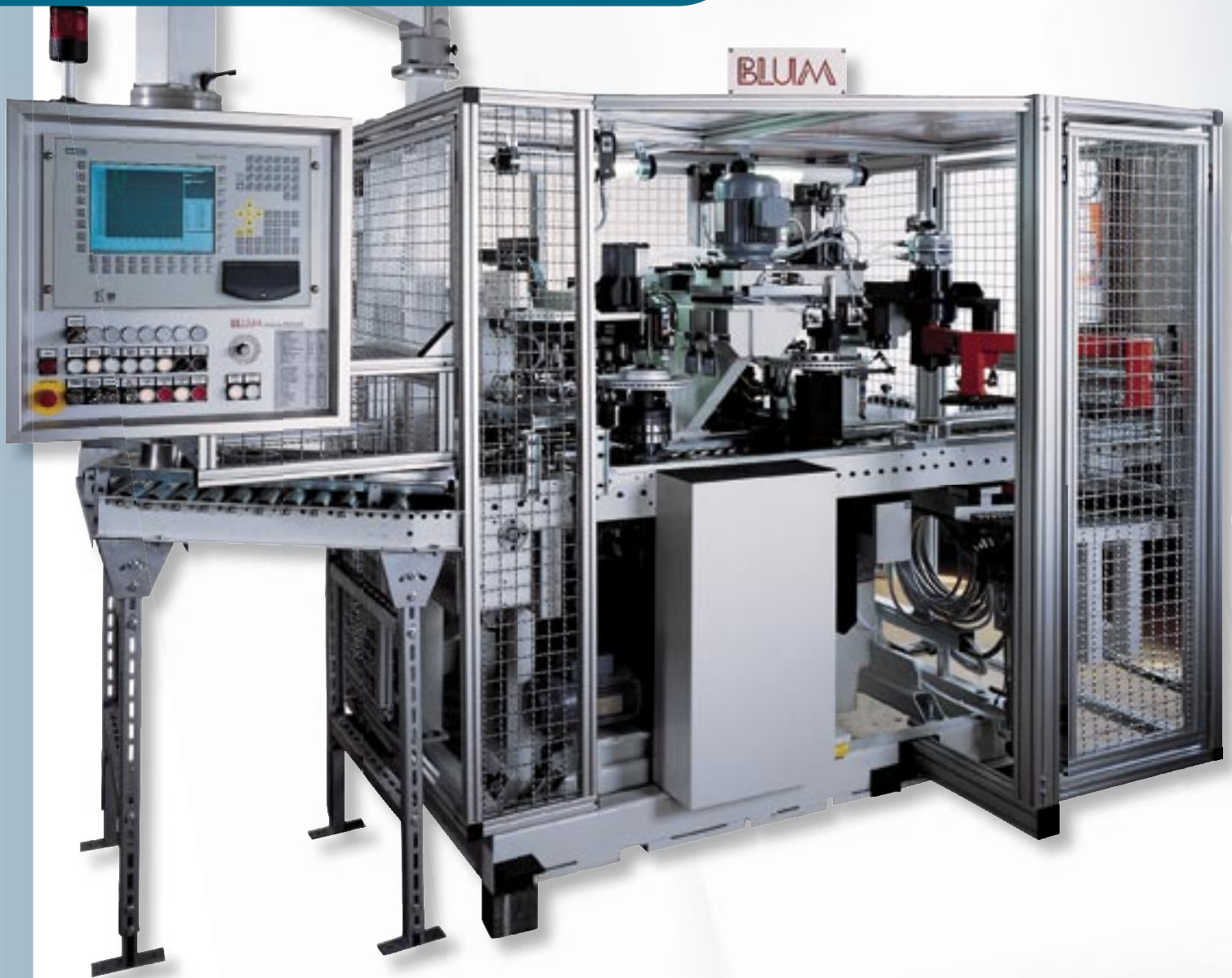
One standard for all products

- signal transmission for **TC** probe series and **Z-Nano-IR**
- 16 bit measuring value transmission for bore gauge **BG** series and thermal sensor **TG**
- **DUO-Mode**: one **IC55** communicates with **TC** probe and **Z-Nano-IR-Duo**
- **TWIN-Mode**: parallel communication of one **IC55** with two touch probes



IC-Family

Measuring and Crack Testing Machines



Production **Measuring Systems**

Post Process Measuring and Crack Testing Systems

By supporting you with state-of-the-art measuring and testing solutions we at BLUM can fully meet your requirements.

BLUM solutions comprise of individually adapted versatile measuring and testing machines which are firmly based on sound design, sturdy mechanical engineering and many years of integration experience.

For a wide range of components, like wheel hubs, shafts, brake discs and drums, gear wheels, steering knuckles, torque converters, to name a few, BLUM offers advanced standard and custom-built turnkey solutions:

From size and geometric inspection (incl. shape and positional tolerances) with temperature-compensated evaluation, feedback of compensation values (to the machine tool control) and part classification, via non destructive testing (e.g. for cracks, hardness, conductivity, etc.), marking and sorting of parts, up to the material handling and automation of entire cells or lines.



No matter whether a multidimensional gauging unit, dynamic special measuring machine, flexible 2D measuring solution, or a sophisticated measuring and testing system fits best with your requirements – You can rely on the expertise and readiness of BLUM's specialists right from the beginning of a project, throughout its many years of service, together with continuing support and sound advice covering future modifications and extensions.



Your decisive benefits with BLUM

- permanent assurance of your product quality and productivity at the highest level
- systems with outstanding availability, precision and durability
- minimum maintenance requirement
- highest efficiency
- sound expertise and advice due to decades of practical experience
- highly qualified service staff
- measuring – testing – handling:
turnkey solutions from a single source of supply
- integration of market leading testing technologies (Eddy Current crack testing, etc.)
- individually adapted special solutions



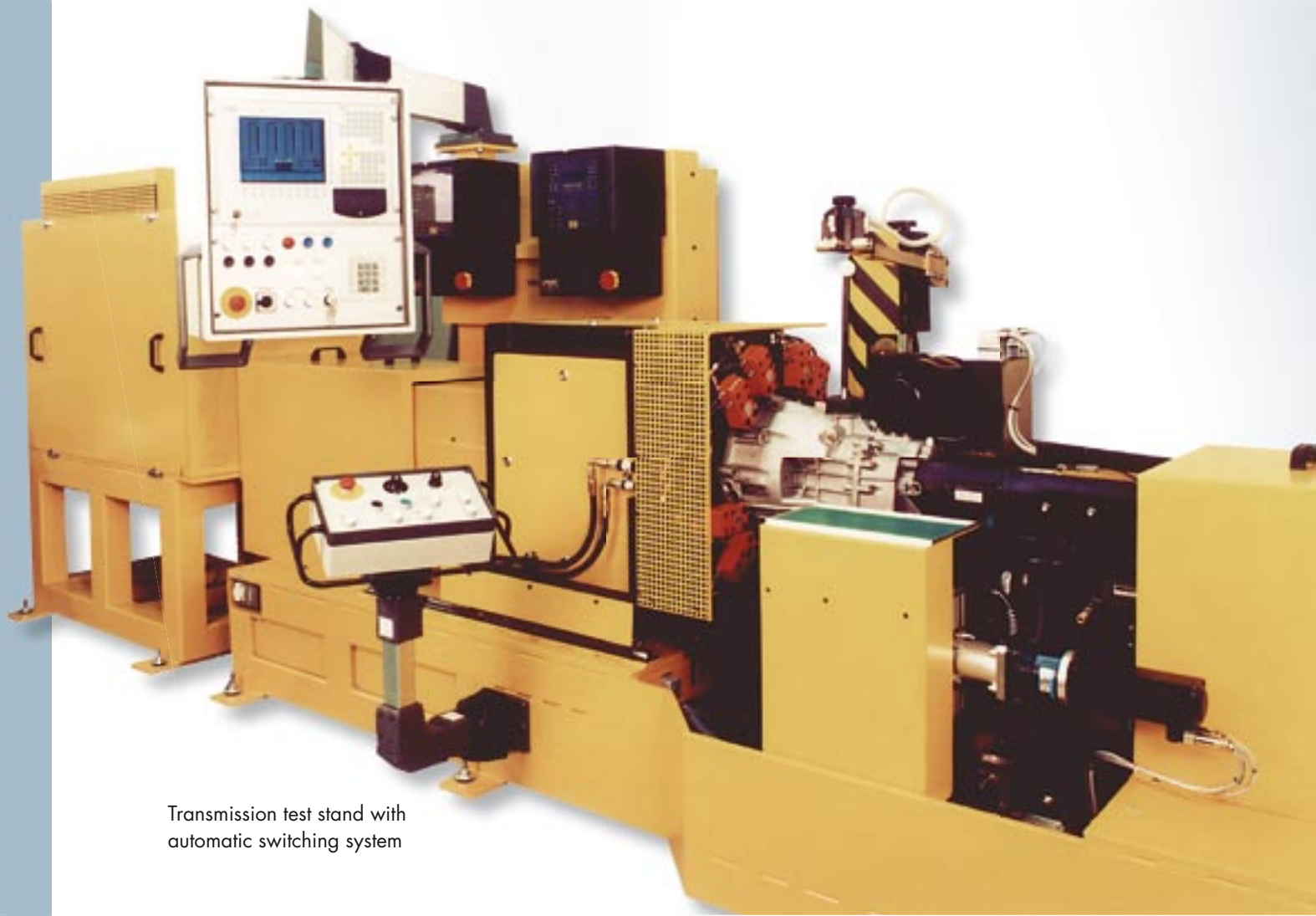
RotaMat D
Automatic Measuring and Crack Testing
Machine for brake discs and drums



Beta H2/Beta V
Flexible 2D Production Measuring Machine



RotaScan H
Flexible Eddy Current Crack Testing Machine



Transmission test stand with automatic switching system

NOVOTEST – Test Stands

Know-how and competence in test engineering:

- user consultation
- concept development
- planning
- design/engineering
- production
- start-up
- test sequence optimization (accompanying production)
- training/education
- service

Specific customized system solutions of one single source using approved and constantly optimized modules of:

- mechanical engineering
- hydraulics, pneumatics
- measurement and control engineering
- computer hardware, software and data bases

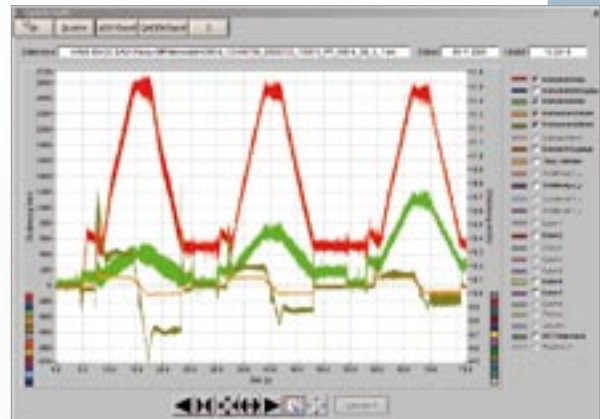
Accompanying development, auditing and end-of-line testing for automobile, industrial and aerospace engineering.

Function and performance test stands for:

- mechanical/electronic components
- transmissions and drive lines
- couplings
- steering gearboxes
- lateral shafts
- injection systems
- braking systems ABS, ASR, ESP
- hydraulic components for industrial engineering
- hydraulic components for aerospace engineering

Service life test stands for:

- hydraulic components from low to extremely high-pressure ranges
- universal articulated, lateral shafts
- automotive transmissions and gearboxes



Torque-revolution-characteristic
Gearbox test stand



Lateral shaft test stand, hydraulic tension
output 400 kW



Automatic valve testing system with robotic unit



Pressure pulse test stand with mobile
unit for flexible hydraulic piping systems

