

QMmatrix

for better performance

TOP
CONSULTANT

top-consultant.de

2025



Presentation Measurement technology

EXCELLENCE THROUGH STATE-OF-THE-ART MEASUREMENT TECHNOLOGY



- ✘ Using state-of-the-art 3D coordinate measuring machines and measuring methods, we inspect your components both tactile, analogue and optical.
- ✘ You develop and produce – we support you in quality assurance.
- ✘ Product quality is a minimum requirement in order to be able to survive in national and international competition. With our range of services, we would like to support you in achieving your quality goals actively and on time.
- ✘ Our laboratories are accredited according to DIN EN ISO/IEC 17025



SERIES TESTING

- ✗ Machine capability study
- ✗ Measurements during production
- ✗ Statistical evaluations
- ✗ Surface inspections
- ✗ Sorting Checks
- ✗ 100% inspection of safety-relevant components



INITIAL SAMPLE INSPECTION

- ✗ Initial sample inspection according to VDA/QS-9000
- ✗ Customer-specific inspection report"



Commissioned Measurement

- ✗ Measurement against CAD data, 3D and 2D in the formats VDA, IGES, STEP, DXF
- ✗ Direct interface for Catia V6, ProE, UG, IDEAS can also be processed
- ✗ Digitization of freeform surfaces
- ✗ Provision of STL-Daten
- ✗ Graphical evaluation of identified deviations
- ✗ Gear measurement (Spur gearing)



Test equipment monitoring

- ✗ Inspection of your test equipment, gauges and fixtures



TRAINING COURSES

- ✗ Machine capability study
- ✗ In-Process measurements
- ✗ Statistical analysis
- ✗ Surface inspections
- ✗ Sorting inspections
- ✗ 100% inspection of safety-critical component



MATCHING DEVICES

- ✗ We measure your individual and gauges and coordinate them according to your drawing, including all work such as grinding, etc.
- ✗ We conceive and construct your measuring devices individually on the CAD incl. the production of everything from a single source.



CONTRACT PROGRAMMING

- Programming in the formats:
- ✗ QUINDOS up to Version Q7 – Leitz measurement technology
 - ✗ PC-DMIS 3.25 until 2025.1 – Hexagon Metrology
 - ✗ Cosmos – only at the customer site
 - ✗ PolyWorks – only at the customer site



PROVISION OF SKILLED PERSONNEL

- ✗ To compensate for absences and peak workloads, we provide experienced measurement technicians for deployment in your metrology lab:
- ✗ Holiday cover
- ✗ Sick leave cover
- ✗ Programming support



OUR MEASURING INSTRUMENTS:

- ✗ DEA – Brown Sharpe Global 12.30.10
- ✗ DEA – Brown & Sharpe Chameleon 07.10.07
- ✗ Hexagon Metrology Global Silver Advantage 09.15.08
- ✗ Hexagon Metrology Global Advantage 07.10.07
- ✗ Hexagon Metrology Tigo SF 05.06.05
- ✗ Leitz Reference XI 20.09.07



Software:

- ✗ QUINDOS up to Version Q7
- ✗ PC-DMIS up to Version 2025.1
- ✗ Three offline programming stations for PC-DMIS for creating measuring programs using CAD data in the run-up to production
- ✗ COMET plus
- ✗ COMET inspect
- ✗ Cosmos of Mitutoyo (only at the customer site)
- ✗ PolyWorks



3D- MEASUREMENT OF
COMPLEX COMPONENTS

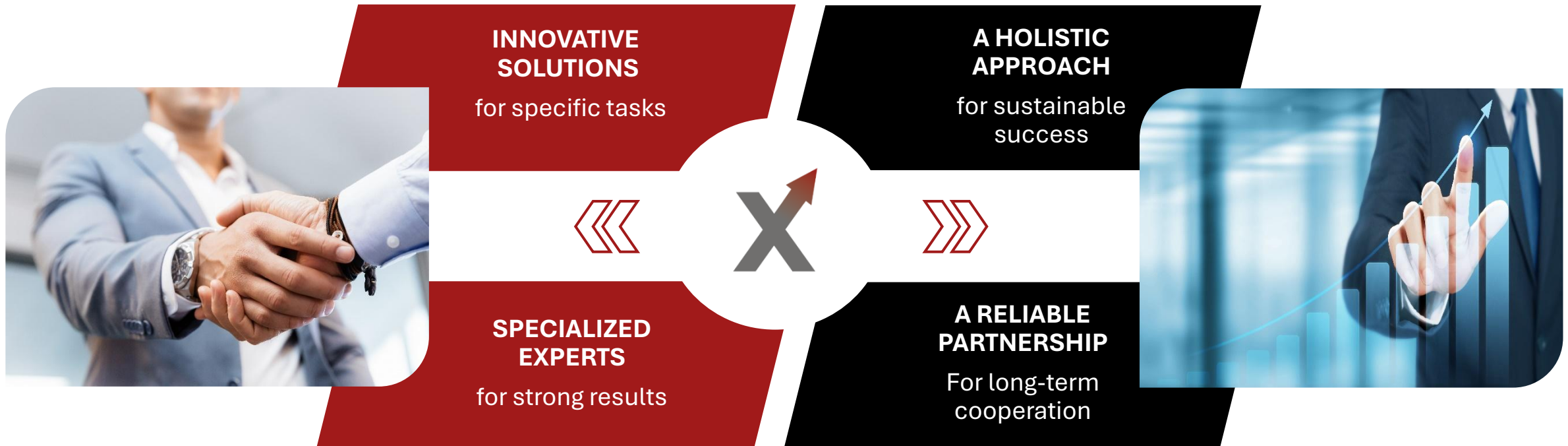


- ✗ Support for a global market leader in automotive interiors
- ✗ Support throughout the entire measurement process, from data capture to analysis
- ✗ 3D measurement of complex component geometries
- ✗ Surface and shape analysis via 3D scanning
- ✗ Documentation and reporting for quality assessment



INTERIM MEASUREMENT TECHNICIAN

- ✗ Support for a leading manufacturer of plastic parts
- ✗ Composite materials and trim parts
- ✗ Interim support in measurement technology to cover vacation leave
- ✗ Development of new complex measurement programs
- ✗ Initial sample measurements for OEM approval





OUR SERVICES

- ✗ Hochpräzise Messtechnik & Lohnmessung
- ✗ High-Precision Measurement Technology & Contract Measurement
- ✗ Initial Sampling & Production Inspection
- ✗ Contract Programming & Calibration Management
- ✗ Training, Courses & User Support
- ✗ Digitalization & Reverse Engineering
- ✗ Programming in QUINDOS, PC-DMIS, Hexagon Metrology, PolyWorks
- ✗ On-Site Service: Depending on the type of inspection, we come directly to your location.



Optimizing all workflows and processes is at the heart of our work.

Operational Excellence

- ✗ Value stream analysis
- ✗ Risik management
- ✗ Prozess Optimization

Task Force / Ramp-up Management

- ✗ QMatrix Focus Team



Our team of experienced experts is here to support you in a variety of areas.

- ✗ Quality
- ✗ Supply chain & logistics
- ✗ Production
- ✗ Project
- ✗ Ramp-up
- ✗ Tools and Transfer



Management of your recurring tasks and processes in quality management.

- ✗ APQP & Change Management
- ✗ Supplier Management
- ✗ Customer Quality and Warranty
- ✗ Management System & Audit



Short-term staffing for your assembly, warehousing, quality control, and supply chain departments.

- ✗ Resident Engineer
- ✗ Inspection - Sorting – Rework
- ✗ Production and Logistics
- ✗ Skilled personnel
- ✗ Measurement Technology

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