



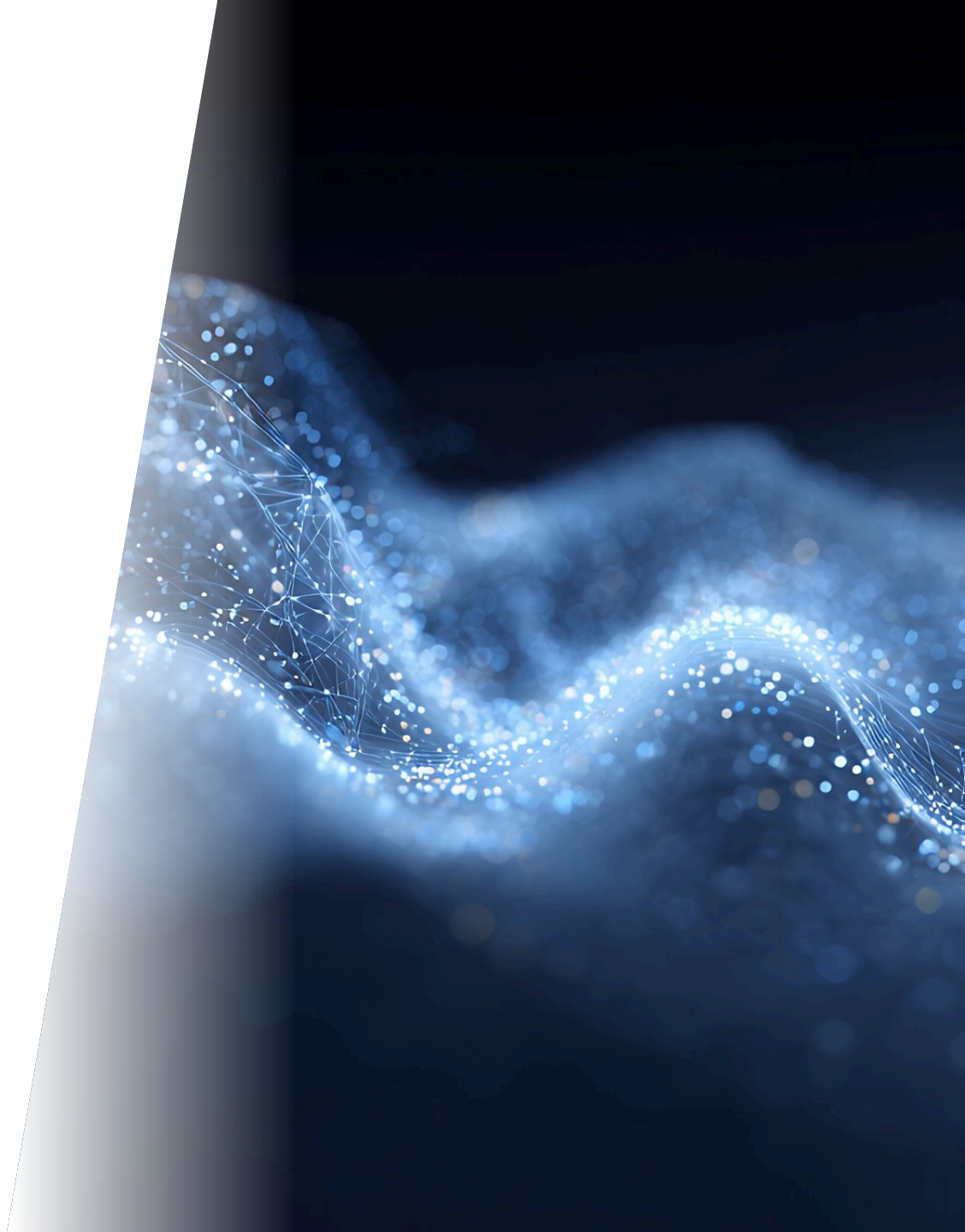
COMPANY PRESENTATION

Precision in **every** dimension.

Industrial Metrology · Mobile Measurement · Research & Development

PRECISION MEETS PERFORMANCE

 **TISAX**
Information security certified



PRECISION AS OUR RECIPE FOR SUCCESS

We see what you **don't see**.
We measure precisely. **Very precisely.**

As a manufacturer-independent measurement service provider, we capture geometries down to the micrometer range, mobile and directly in your production, with holistic advice built on years of practice. Small parts, big impact.

Manufacturer-independent

Faro & Leica measurement systems

Mobile & on-site

Measurement directly on the part

Holistic

From strategy to documentation

TISAX-certified

Audited information security for automotive work

TAILORED SERVICES

**Measurement concepts**

Drawing on years of practice, we develop measurement concepts tailored exactly to your requirements.

**Reverse engineering**

Full-surface capture for far-reaching analyses and clean CAD data for faster product development.

**Measurement strategy**

From a measurement service provider's perspective, we advise you independently and holistically.

**Qualification**

Qualified, flexible staff are the foundation of our innovations and competitiveness.

CAPABILITIES

INDUSTRIAL METROLOGY



TOOLING & EQUIPMENT

- » Fixture & tool measurement in automotive, aerospace and shipbuilding
- » Robot cell calibration & robot measurement
- » Alignment of printing presses
- » Compensation measurements

SURFACE & ACCURACY

- » Surface digitization, sheet-metal part measurement
- » Comparison against CAD data
- » Repeatability & accuracy studies
- » Machine capability studies



04 / 05



GEOMETRIC MEASUREMENT

05 / 09

MACHINE & ENGINEERING SURVEYING



Using mobile measurement technology, we carry out geometric measurements to our customers' requirements, backed by extensive experience with a wide range of mobile measurement systems.

MACHINE MEASUREMENT

- » Determination of machine deviations
- » Machine monitoring

ENGINEERING SURVEYING

- » Surveying & alignment of particle accelerator facilities
- » Surveying of rotary kilns, axis staking
- » Monitoring measurements in structural & civil engineering



A mobile 3D coordinate measuring device with high accuracy and a large measuring volume. Angle encoders and a laser interferometer provide polar measurement elements; the target point is signalled via a retroreflector.

- » Certification of fixtures & tools
- » Robot cell / robot calibration
- » Densification of reference point fields
- » Compensation & repeatability measurements
- » Machine capability studies
- » Axis staking, measuring against CAD



ARTICULATED MEASURING ARM



A mobile 3D coordinate measuring device with high accuracy and a medium measuring volume. An open chain of fixed links, connected by rotary axes with angle encoders, computes the Cartesian coordinates of each measuring point from angles and lengths.

With various probe-head systems, full-surface measurements are also possible.

APPLICATIONS

- » Certification of fixtures & tools
- » Machine capability studies
- » Repeatability tests of various kinds
- » Measuring against CAD data
- » Reverse engineering (surface reconstruction)
- » Surface digitization, sheet-metal part measurement





We see what you don't see.

Patented 3D infrared scanner for inline inspection. Analyses the surface absorption instead of the reflection.

- » **Without spraying** or applying targets
- » Scans transparent, dark & reflective surfaces
- » Insensitive to ambient light & temperature
- » Measures **inline in the production cycle**, also robot-guided



R3DSCAN · INFRARED-BASED 3D CAPTURE



Let's get **precise.**

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PRECISION MEETS PERFORMANCE

A decorative graphic in the bottom right corner of the page, consisting of a glowing, blue, wireframe-like structure that resembles a globe or a complex network of points and lines, set against a light, hazy background.