



SERVICE

Koordinatenmesstechnik



OVERVIEW

3D

SERVICE
Koordinatenmesstechnik

OUR SERVICES

3D SERVICE
Koordinatenmesstechnik

Contract measuring
Training
CMM service
Relocations
Refurbished machines
CMM Upgrades
Software
Distribution
Our own products

YOUR COORDINATE-MEASURING MACHINE SPECIALIST



WE ARE THE 3D SERVICE TEAM



"The highest priority of 3D Service is the satisfaction of our customers. You can count on us making every effort to improve the quality and innovation in your company. 3D Service provides high quality and the service you expect.

And all of that at a fair and attractive price."



3D SERVICE
The family company from the
Spessart region.



Die Akkreditierung gilt nur für den in den Urkundenanlagen aufgeführten Akkreditierungsumfang.

OUR TEAM

**Michael
Fischer**

MANAGING DIRECTOR



We closely co-operate with you to make sure that the solutions we offer precisely fit your individual needs and requirements.

Your success is our success.

"The highest priority of 3D Service is the satisfaction of our customers. 3D Service provides high quality and the service you expect!"

3D SERVICE
Koordinatenmesstechnik



**Uwe
Väth**

HEAD OF ENGINEERING



**Rüdiger
Nasemann**

HEAD OF THE
CALIBRATION LAB



**Jürgen
Brückner**

HEAD OF APPLICATIONS
ENGINEERING



**Rainer
Hielscher**

HEAD OF CONTRACT
MEASURING

CONTRACT MEASURING

**WE FULFIL YOUR
MEASURING
TASKS!**

For your individual parts or small series, we supply:

- Initial sample inspection reports according to VDA
- Measuring reports for regular geometries
- Measuring reports for freeform surfaces
- Analysis of geometric dimensioning and tolerancing
- Negative colour analyses against CAD data
- Measuring programmes for your use
- CAD models by surface reconstruction
- GOM analysis templates
- Contract programming (online / offline)
- Measuring programmes to be used on your CMM in Inca 3D, Metrosoft Quartis and Metrosoft CM

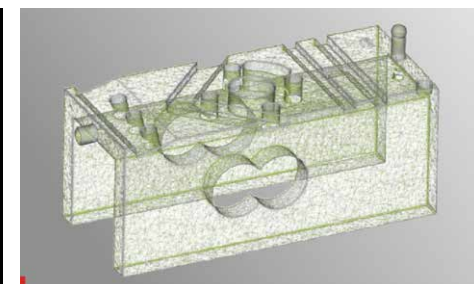
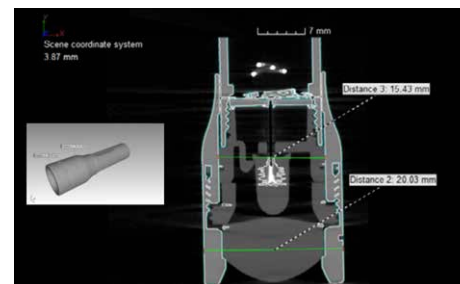
In air-conditioned measuring rooms, three CNC portal measuring machines are available for tactile measuring jobs. They can be either used with touch trigger or measuring probing (scanning) systems. For non-contact optical measuring jobs, there are two CNC video measuring devices. On all measuring machines, the measuring processes can be automated for serial measurements.

With our high-speed structured light digitalisation system, it is possible to capture the outline contours of your components comprehensively. The collected data allow for evaluations against existing CAD models and regular geometry evaluations according to the drawings or surface reconstructions (reverse engineering).

For components that need to be captured and measured completely with the inner contours, the data are collected by means of computer tomography. With the resulting scatter-plot, comparisons with existing CAD data and regular geometry evaluations according to a drawing or surface reconstructions (reverse engineering) can be carried out.

Even before the production of the first part can we create complex measuring programmes offline by means of the available CAD data. This enables you to inspect your parts directly upon start of production.

Just contact us. We will find the suitable measuring technique for your parts!



STAFF AND TRAINING

Problems with the application? We help you find the solution!



Practical training

We provide individual basic training for newcomers or advanced courses for experienced measurement engineers. After teaching the theoretical basics, we consolidate the contents of the training programmes and put them into use with practical exercises.

It is you who decide whether you wish to train with one of our instruction workpieces or with your own components.

Software training programmes

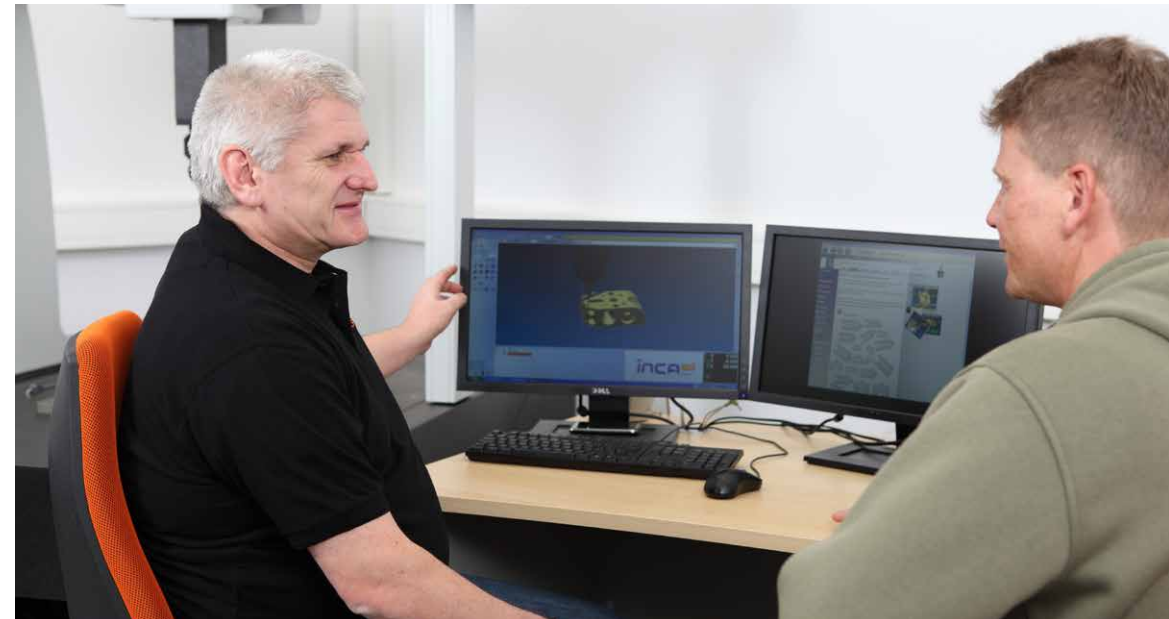
In the field of regular geometry and freeform surface measurements, we provide training for the following software:

- Mora software (Inca 3D Inspect, AC-Optik)
- Steinbichler software (Comet Plus, Comet Inspect)
- Wenzel software (Metrosoft CM, QUARTIS)
- and others

Providing personnel service

Short of personnel? No problem. We come to your company and help implementing your measuring jobs and/or measure your components at your own measuring machines on site.

Just contact us directly.



MAINTENANCE AND CALIBRATION

CMM calibration laboratory

For machines from the manufacturers Mora, Wenzel, Stiefelmayer, Zett/Mess, Zeiss, Hexagon, Johansson, Mitutoyo, we supply:

- Maintenance and maintenance contracts
- Calibration of measuring machines
- Relocation of your measuring machine
- Repairing and upgrading to state-of-the-art technology
- Selling accessories



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3D SERVICE

Koordinatenmesstechnik



As a calibration laboratory in accordance with DIN EN ISO 17025 for on-site calibrations, we are the specialist for everything that has to do with the coordinate-measuring machine.



RELOCATIONS



REFURBISHED MACHINES



It doesn't always need to be new!

First-class refurbished machines at attractive prices.

We continuously offer good second-hand measuring machines that have been inspected and modernised by us - warranty included, of course.

As an option, the service package with the following services can be booked:

- Packing and freight
- Assembly and connection of the machine
- Computer installation and function test
- Proof of the specifications by means of an inspection record
- Transfer of the system to the customer
- User training

Individual training programmes for operating the measuring software are held at our facilities or at yours. The theoretical knowledge the participants have learned will be consolidated by practical exercises.

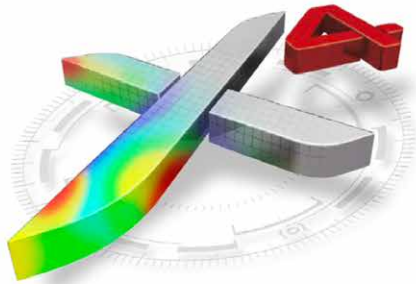
MODERNISATION (RETROFITTING)

**Enhance your
measuring instrument**





Metrolog^{X4}



designed **4** the future



We make your machines fit for the future.

As an alternative to new acquisitions, we help you convert and upgrade your manual measuring instruments or CNC machines.

With or without a conversion of the hardware, we integrate state-of-the-art software for carrying out measuring jobs quicker and more accurately.

Cost-effective conversion packages for manual measuring instruments or CNC machines.

SOFTWARE

For a trouble-free and quick measurement

Inca 3D

Inexpensive with complete functionality - the overall solution for 3D coordinate-measuring machines

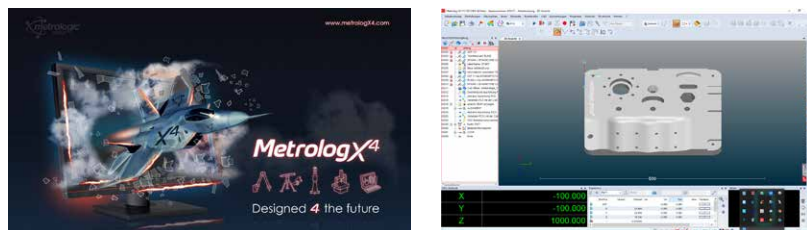
Ideal for applications in the automotive industry, design, model making, in aerospace industry, in tool-making and for measuring freeform surfaces. For manual measuring instruments and CNC machines, measuring arms, for non-contact measurements. Individually adjustable user interface on the basis of user rights.

Function for error reduction

- Automatic saving
- Backup management
- Diagnostics

Metrolog X4

Metrolog is by far the most comprehensive software with all the functions that can be realised by customary coordinate-measuring machines (CMMs). For decades, CMMs have been the main measuring pillar in the metal cutting and transforming and plastics transforming industries. Precision components of watches and sheet-metal housings of domestic appliances are inspected with CMMs.

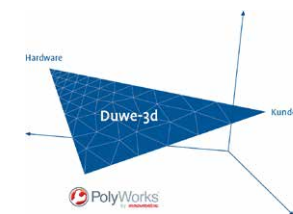


PolyWorks®

Coordinate-measuring technology with PolyWorks®

PolyWorks is a software for the coordinate-measuring technology, for reverse engineering and virtual assembly. PolyWorks is the overall solution for the processing and analysis of three-dimensional data records. As a universal software platform, PolyWorks supports numerous optical and tactile digitalisation systems. In addition to single-point measurement, PolyWorks makes it possible to digitalise, analyse, process, and compare entire surfaces.

PolyWorks has been developed by the Canadian company InnovMetric Software Inc. for more than 15 years. Due to their customer-friendliness, PolyWorks have proved themselves in various industries. In the automotive and the supply industry, PolyWorks is considered the global standard.



DISTRIBUTION

**We are a Mora
distribution partner.**

As a distribution partner for Mora, we support you not only when purchasing new measuring machines, but we purposefully help you already with planning and implementing your project.

Mora and their more than 100 years of experience in measurement technology contribute considerably to maintaining and improving your products.

In addition to the well-known tried and tested products from Mora Metrology, the technical innovations such as the new portal measuring machine Primus, the optical measurement machine Focus and the multisensor measuring machine Quantus are now also available for you.



OUR OWN PRODUCTS



Controller PC desk 19 Zoll

for a clean and tidy workplace.

Integration of PC, CNC, probe interfaces etc.
incl. cable management and network filter.

As a retrofit solution for existing control
systems and PCs or complete with an
industrial PC with a state-of-the-art
control system.



PC system for measuring machine, tower

- Intel Core i5 - 8 GB RAM
- Desktop case
- Keyboard, mouse
- Operating system: Win 7 Professional
- 4-port interface card RS232 for the devices of the measuring machine
- Fujitsu mainboard
- Graphics card Nvidia Geforce GT
- 2 LAN connections
- 1 SSD 256GB + 1 HD 1000GB (hard disk)
- Preconfigured



PC system for measuring machine 19" industrial case

- Intel Core i7 - 8 GB RAM
- 19" industrial case
- Keyboard, mouse
- Operating system: Win 7 Professional
- 4-port interface card RS232 for the devices of the measuring machine
- Fujitsu mainboard (24/7 operation)
- Graphics card Nvidia Geforce GT
- 2 LAN connections
- 1 SSD 256GB + 1 HD 1000GB (hard disk)
- Preconfigured

OUR OWN PRODUCTS



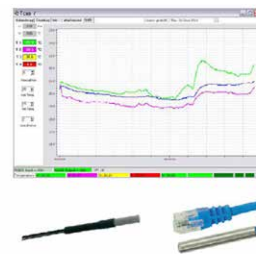
PRECICATOR V4

PRECICATOR V4

- Measuring counter with transmission record MZ1060
- Step correction for rotation
- Step correction for rectitude, perpendicularity and tilt
- Reference run
- Scaling system: TTL
- 12-volt connection via an AC adapter

Field of application:

- Manual measuring instrument as measurement counter
- MZ1060 + CAA3 correction box
- CNC machine as CAA3 correction box
- Software-independent



3D NRW temperature recorder

- For a continuous temperature capture from up to 15 temperature sensors
- Temperature sensors in the standard version
- Temperature sensors suitable for cable carriers (optional)
- Accuracy +/- 0.12 K
- Measuring range 15°C to 25°C



Package with PC and monitor

Temperature base plate, air centre, reference standards

- 4 sensors (10m cable)
- Temperature measuring system
- Mini PC with Windows 7, SSD hard disk, Vesa support
- Monitor 17" with pedestal
- Analysis software

Basic Package

Temperature X,Y,Z, workpiece

- 4 sensors (10m cable)
- Temperature measuring system to be connected to an existing PC
- For transferring the data, 2 RS232 ports must be free
- Analysis software



Our sites

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