



AUTMARING
Engineering



Our range of service at a glance

AUTMARING
Engineering



From the Idea to a Series

We offer everything out of one hand

- Construction/ development/ simulation - serial and prototype metal cutting -
production of graphite electrodes - plastics technology and injection moulding -
Automation engineering - HMI - measuring technology - fixture construction
plant engineering (processing-, welding-, and mounting fixtures, teaching, hammer
forms) - Special machine engineering (measurement systems, forming die ...)

The Autmaring Engineering GmbH is a full-service partner providing customized operating material and electronic as well as mechanical processes for different demands and fields of activity.

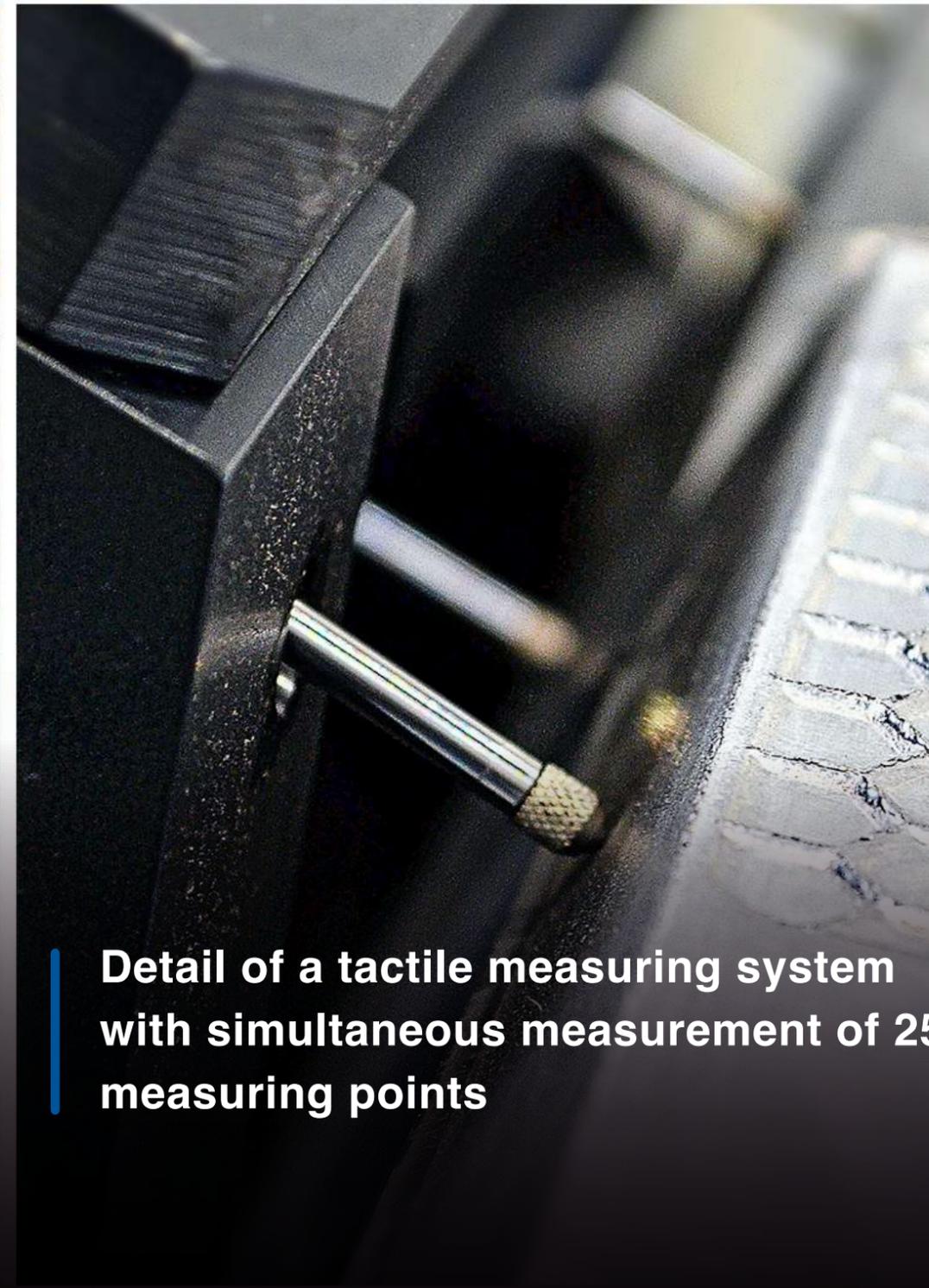
Our large service spectrum is mirrored in our progressive and efficient machine selection with which we can work on almost everything.

We make sure to provide you with fitting results and on-time handling. Everything is part of a value chain, meaning that we normally don't outsource parts of production but do the whole production ourselves.

Special Machine Engineering



Bending machine for joining an assembly by simultaneously bending 38 sheet metal straps



Detail of a tactile measuring system with simultaneous measurement of 25 measuring points



System for mounting threaded inserts with process monitoring

AUTMARING
Engineering



We deliver customized control systems

Automation technology. HMI for electronic and mechanical systems

We develop customer-specific solutions for process automation of electronic and mechanical systems and we are experts in the field of the human machine interface (HMI), or simply, in the creation of an operating interface between humans and machines.

We know how to develop complex but user-friendly mechanical processes, especially in control technology, which gives us the possibility to make complex operating and mechanical procedures easy to use by means of a simple operation-way in the field of mobile and industrial automation.

It is therefore important to us to develop devices which illustrate these procedures in an easy to use menu navigation and a self explaining Interface.

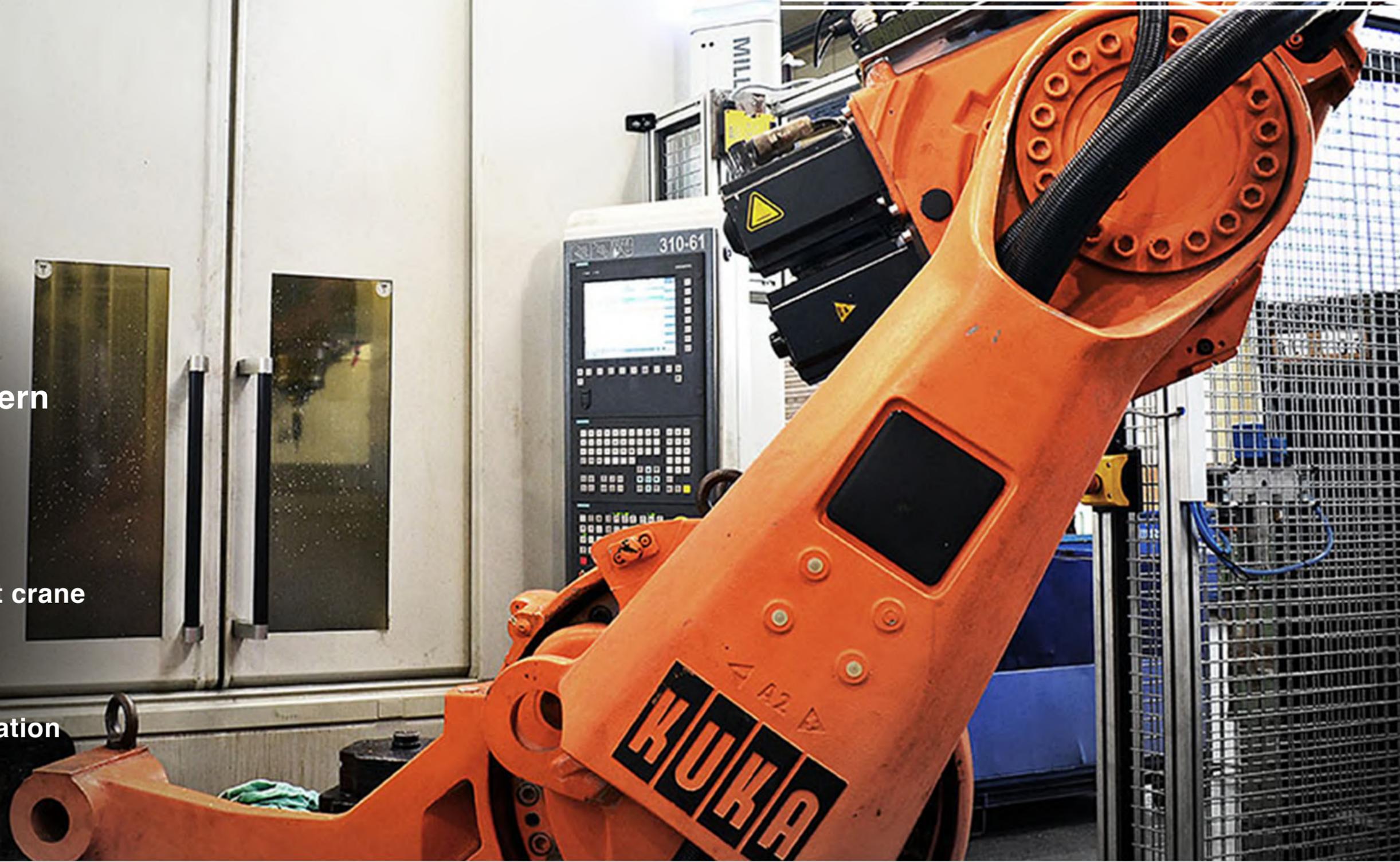


chiron

G E R M A N Y

We work with highly modern
5-axis CNC machines.

- Material movement with a 10t crane
- Chiron Mill FX 800
- Chiron Mill FX 2000
- Chiron Mill FX800 mit Automation





• Hermle C400

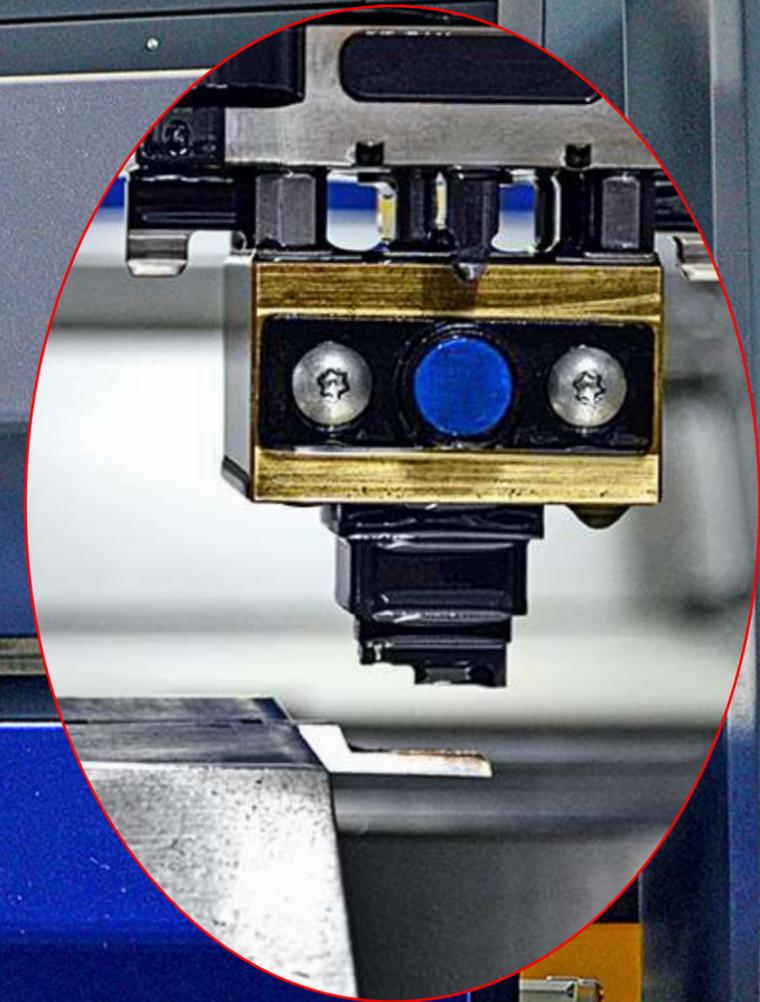


OPS  INGERSOLL
Fly with the eagle!

HIGH SPEED
EAGLE V9

Production of graphite electrodes
on highly accurate dynamic
CNC machines

- OPS Ingersoll Eagle V5
 - OPS Ingersoll EagleV9
- > both are connected to a loading robot*





We deliver tailored manufacturing concepts

with the help of highly modern technology and the highest requirements in form and position tolerances

Siemens NX – Catia V5 – SolidWorks – PEPS – Hypermil (5-axis milling) – plastics engineering assessment - filling and warpage simulations with Autodesk and Plastic Insight

A tailored manufacturing concept is the most important step from the draft towards the first component. The OEM construction method, high-performance CAD- and CAM-jobs, different injection moulding machines and machining centres as well as facilities for manufacturing graphite electrodes guarantee an efficient and a cost-saving high-quality production.

Innovative simulation technologies provide us with necessary expertise to already produce your product and to recognize or rather avoid later appearing production problems at an early manufacturing stage. The costs for prototypes and tests are reduced.

AUTMARING
Engineering



We are specialists in terms of developing and producing high-quality plastic components with the help of innovative technology and software as well as the right machines. We focus on the production of 'technical components' and are, in this regard, not limited to the sheer casting method during the production of respective parts.

Reverse engineering, patterns, prototypes, small and large productions as well as project management, which will accompany you during the whole production process, represent our business and manufacturing processes.

We create products out of ideas

**Plastics technology and injection
moulding**



Machine park – Injection moulding

- 650t closing force
- 300t closing force
- 175t closing force
- 90t closing force
- 65t closing force
- 3 x 50t closing force



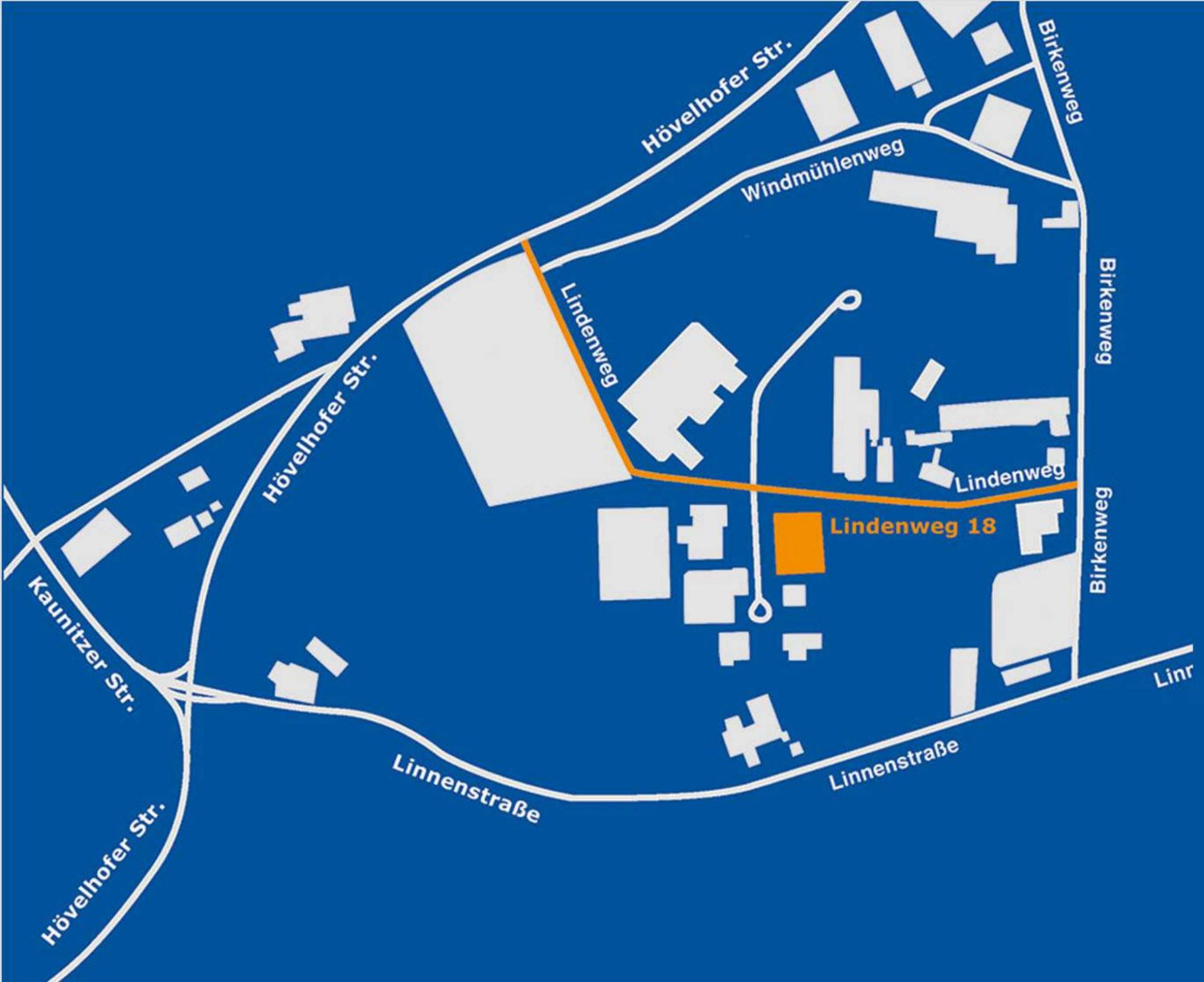
Precision down to the smallest detail

Stationary and mobile measuring technology

With the aid of our stationary measuring unit, a 3D coordinate measuring machine of the type Fa. Wenzel, we can check the efficiency of your plastic components as well as other technical elements in a fully air-conditioned room.

Also, we can design and implement tailored measuring systems on serial products and production process, for instance ourselves, when it's about developing a measuring device for specific production parts in which the those can be placed, scanned at critical points by using a sensor, and checked for their efficiency.

After developing a 'sample' with standard values, we can evaluate if the component was successful or if it needs to be sorted out. In this way we don't just create a trouble-free and fast process flow but also assure a consistent production quality.



Production in 33129 Delbrück, Lindenweg 18, Germany



Autmaring Engineering GmbH
33129 Delbrück, Germany
T: +49 5251 877 887 0
paderborn@autmaring.eu



www.autmaring.eu