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Watch our
image video
here



Our know-how makes your process reliable

We are the inventors of automatic defined geometry deburring and we supply system solutions - from individual systems to complex assembly lines - for the workpieces of customers to whom the process matters most. With more than 25 years of robot automation experience, we guarantee our customers a reliable process. Our core competencies are in the following segments:



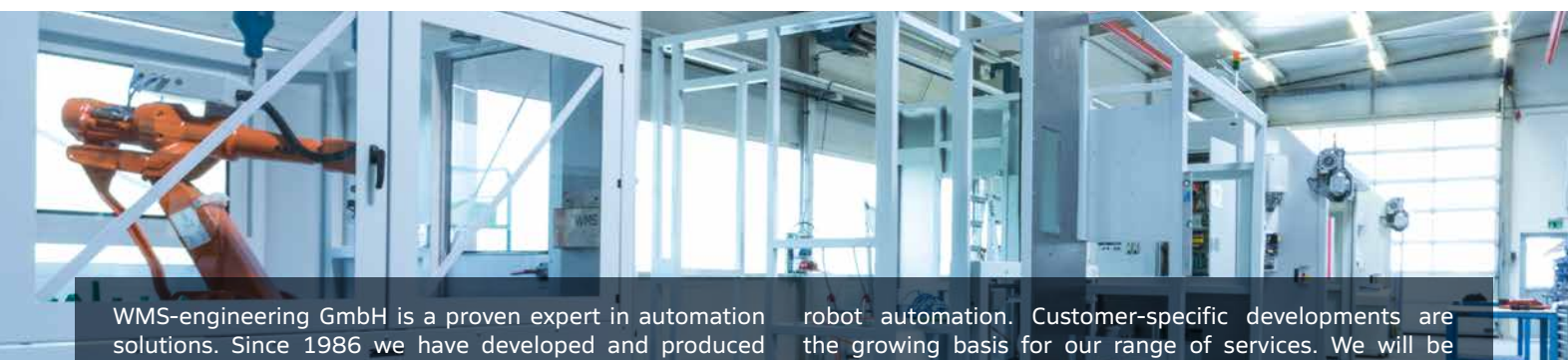
Tools



Machinery



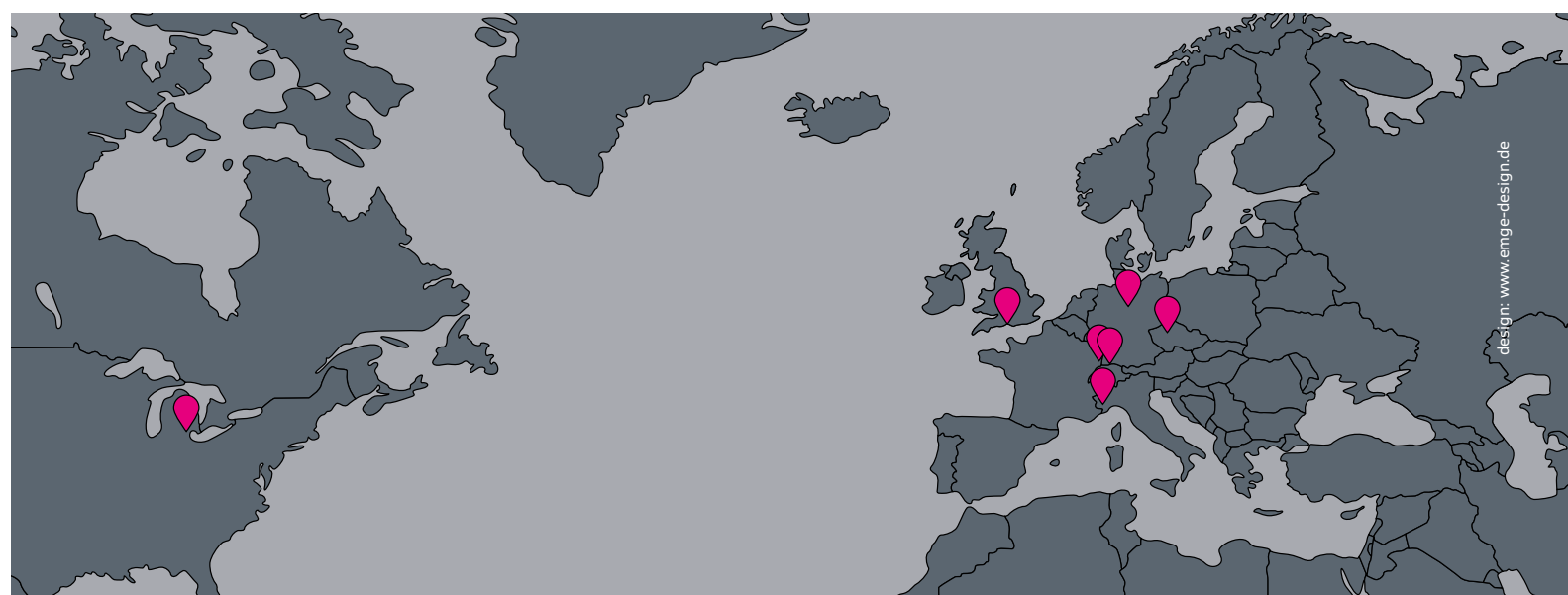
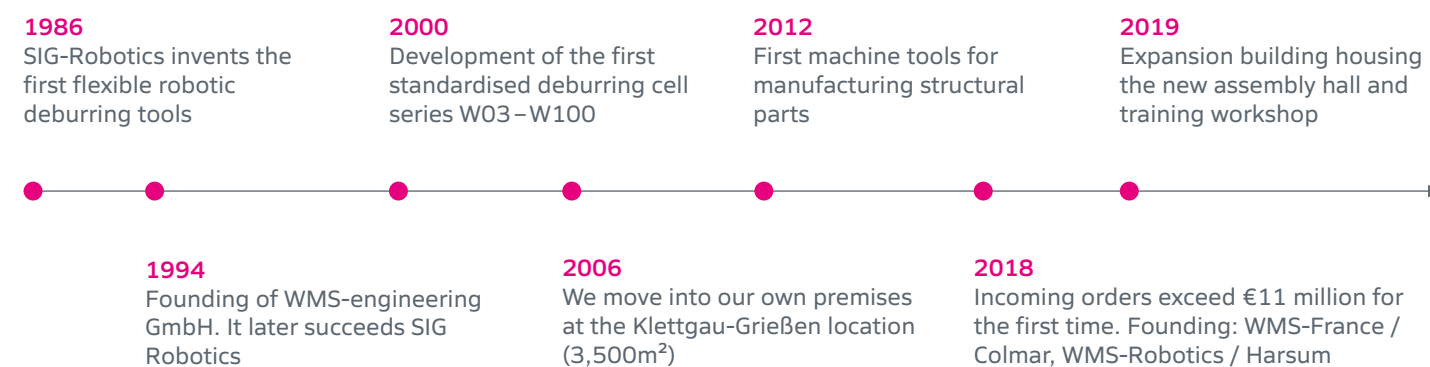
Systems



WMS-engineering GmbH is a proven expert in automation solutions. Since 1986 we have developed and produced everything needed for the economical machining of your components - whether it is an individual machine or an entire system. We are setting standards in the field of

robot automation. Customer-specific developments are the growing basis for our range of services. We will be happy to accompany you - from the initial concept to rapid commissioning: process engineering with full responsibility and complete service.

The milestones of our success story



We make solutions

Deburring Processes



Your individuality. Our aspiration.

IN THE BEGINNING WAS THE WORD

Based on an initial conversation, our process specialists first develop the principle layout. This provides you, our customers, with a preview of the final concept. In addition, it serves as the basis for project planning. To ensure a clearly defined system design right from the start.

ALL WITHIN A FRAMEWORK

Each WMS deburring machine is based on the steel tube body that forms the cell frame. Different sizes and application parameters allow us to optimally adapt to your workpiece.

HAND IN HAND

During the entire process, we work closely with established suppliers, some of which have been our reliable partners since our founding.

Our effort. Your benefits.

FOCUS ON PEOPLE

Robot-based deburring ensures that workers are not exposed to hazards such as contamination, noise or heavy lifting. For safety across the board.

MORE ROOM FOR IDEAS

Our compact modular cells ensure smaller footprints and save space. We allow your visions free reign. The flexibility of our modular system promises solutions for any requirement.

CUSTOM SOLUTIONS

With its many tools, the WMS tool catalogue provides limitless possibilities. Tool inserts featuring different materials, shapes and coatings can be integrated into your deburring machine according to your needs.

Putting their many years of experience to work for you, our employees can advise you on all of their different facets.



From the conceptual design to a turn-key product

THE WMS DEVELOPMENT PROCESS AT A GLANCE



01

Exchange of component data
WMS process specialists
check and evaluate the
customer specifications

02

Determining the tool or
workpiece-guided machining

03

Importing STEP files into the
CAD program
Defining the machining edges
and surfaces
Development of a surface
plan

04

Defining the deburring tools
and tool inserts
Conducting a cycle time
analysis

05

Optional: Experiments to
confirm the processes using
WMS test cells
Offer submission and
presentation of the concept
at the customer's facilities
Customer approval

06

Mechanical production and
assembly
Programming
Internal acceptance at WMS
(FAT)

07

Assembly of the plant at the
customer's facility
Commissioning at the
customer (SAT)

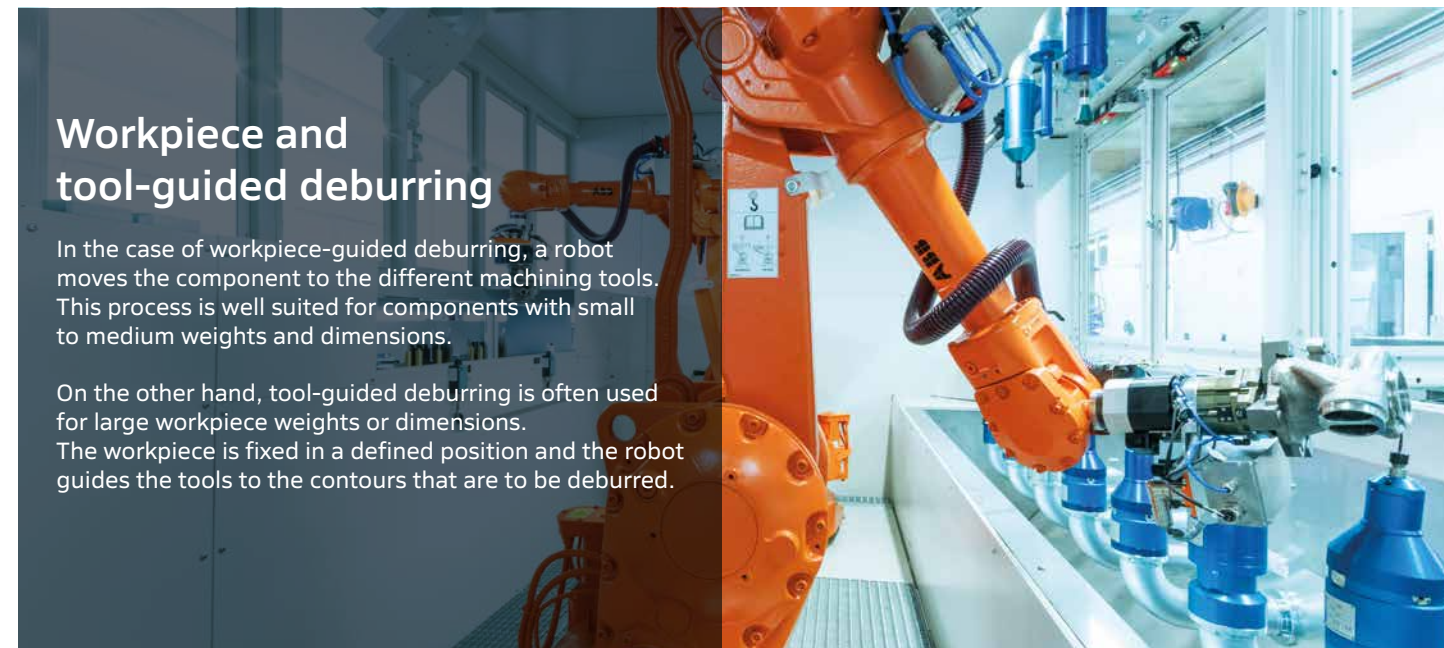
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Service/Support
Spare parts management
Maintenance

Workpiece and tool-guided deburring

In the case of workpiece-guided deburring, a robot moves the component to the different machining tools. This process is well suited for components with small to medium weights and dimensions.

On the other hand, tool-guided deburring is often used for large workpiece weights or dimensions. The workpiece is fixed in a defined position and the robot guides the tools to the contours that are to be deburred.



Starting point



Process-reliable result:

