



Arnstädter Werkzeug-  
und Maschinenbau AG

AWM AG: YOUR COMPETENT PARTNER

INNOVATION IS  
OUR PRODUCT.  
RELIABILITY IS  
OUR STRENGTH.

AWM AG: YOUR COMPETENT PARTNER

## WE SEE OURSELVES AS PROBLEM SOLVERS FOR CHALLENGING TASKS.

We have been serving our customers for nearly five decades. An constant factor here was and remains our dependable and long-standing cooperation with our partners.

The driving force for our long-term success rests on the innovation and reliability of our technical solutions. As a customer, you can always trust AWM AG to deliver technically and economically advantageous solutions that meet your requirements.

Arnstädter Werkzeug- und Maschinenbau AG is a medium-sized, internationally active and owner-operated manufacturer of molds and machinery. We support our customers in achieving higher productivity and quality with our innovative products and dependable solutions.

We have been acting in our customers' interests since 1965 and see ourselves as their problem-solver for complex tasks related to toolmaking and assembly automation. At present the company employs some 147 highly qualified engineers, technicians and specialists.



FROM LEFT TO RIGHT://

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**RENÉ SCHARN, DR. OF ENGINEERING**  
DIVISION MANAGER, SPECIAL PURPOSE MACHINES

**HORST MOKA, DR. OF ENGINEERING**  
BOARD MEMBER

**KLAUS KLEINSTEUBER**  
BOARD MEMBER AND DIVISION MANAGER, TOOLMAKING



## STRUCTURE, DATA AND FACTS

# INNOVATION IS OUR PRODUCT. RELIABILITY IS OUR STRENGTH.

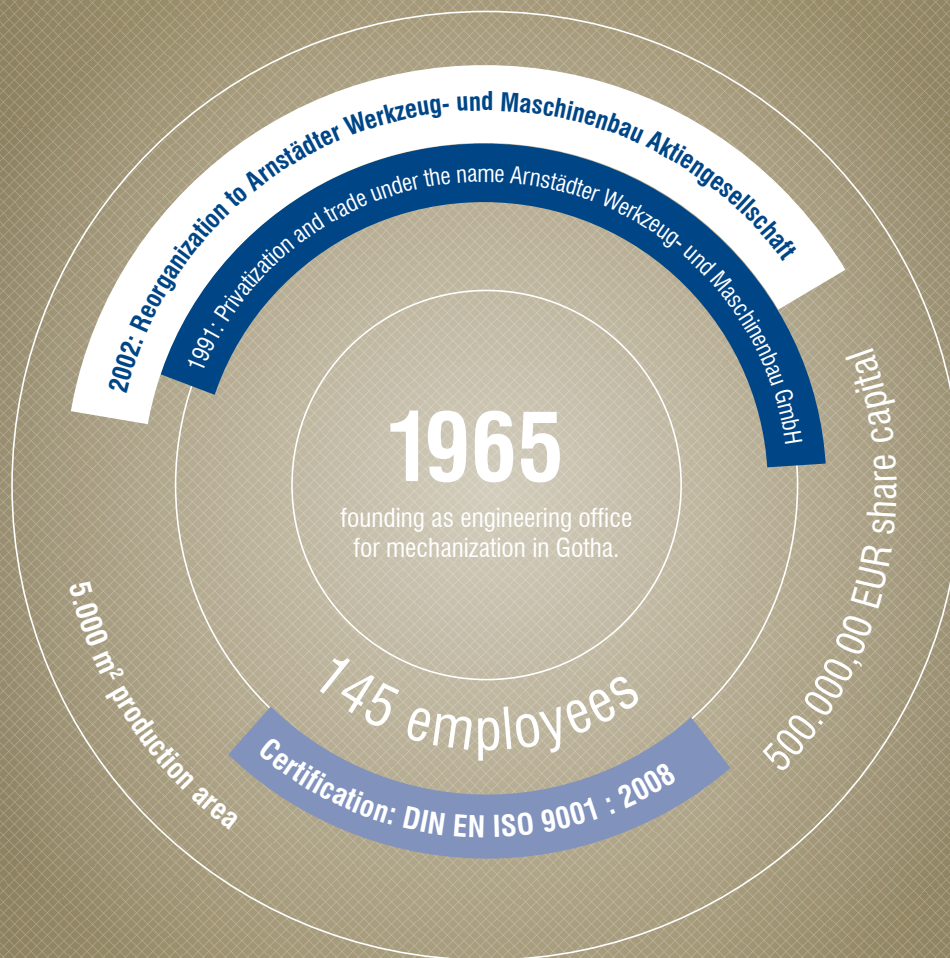
BOARD MEMBER		
TOOLMAKING DIVISION	ADMINISTRATION	SPECIAL PURPOSE MACHINES DIVISION
> SALES	> ACCOUNTING/CONTROLLING	> SALES
> DESIGN	> PURCHASING/SALES	> DESIGN
> WORK PREPARATION	> IT	> WORK PREPARATION
> MANUFACTURING		> CONTROL SYSTEMS
> ASSEMBLY/TOOL OPTIMIZATION		> MANUFACTURING
> MEASUREMENT SYSTEMS		> ASSEMBLY
> SERVICE		> SERVICE

We are state-of-the-art not only technologically, but also in organizational terms. Arnstädter Werkzeug- und Maschinenbau AG is divided into two profit centers (divisions) and one cost center (administration). These areas are independent of one another and market themselves individually. Whenever it is advantageous, we seek to combine the competences of the two business areas on the market. As an internal service provider, the administration section offers the full spectrum of a modern business service.



THE COMPANY

## DATA AND FACTS



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Arnstädter Werkzeug- und Maschinenbau AG is located in Arnstadt, a town in the Erfurter Kreuz industrial park. This location is close to Erfurt, the regional capital of Thuringia. Excellent transport connections via the A4 and A71 motorways, a high-speed rail link and the Erfurt-Weimar airport offer superb logistical options.

## AWM AG: THE PROBLEM SOLVER

## SPECIAL PURPOSE MACHINES DIVISION

For nearly five decades this division has offered high quality manual workstations, hybrid assembly solutions and complex assembly lines. These are capable of assembling parts weighing up to about 5 kg precisely, economically and with absolute reliability.

Customers of our special machinery division profit particularly from the company's decades of experience in this field. Their specific problems are analyzed carefully and thoroughly by our experts and an innovative, individual solution is proposed.

This is made possible using the most modern machinery and equipment for the design, manufacture and quality assurance stages and for in-house toolmaking. At every stage of product development we rely on the most up-to-date design and manufacturing technologies. Our own measurement laboratory enables us to respond to measurement-related questions comprehensively, fast and at any time. Professional multi-project management ensures that all our orders are fulfilled on time and without problems.

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### WE SPECIALIZE IN:

- › hybrid and fully automated assembly systems:
  - for plastic/metal-oriented parts weighing up to 5 kg
  - for rubber-metal composite components (e.g. damping systems, sealing profiles)
  - for flexible parts (e.g. cabling)
  - with integral plastics injection molding
- › robot applications with integral image processing
- › palleting systems
- › system integrator for testing systems
- › system integrator for laser machining systems
- › manual workstations







AWM DEVELOPS  
INNOVATIVE SOLUTIONS  
TO COMPLEX CHALLENGES.

## SPECIAL PURPOSE MACHINES

## DESIGN, ASSEMBLY PLANNING, SERVICE AND PROJECT MANAGEMENT.

The basis for our mechanical and electrical design is formed by the functional specifications document provided by the customer. We use Autodesk Inventor as the CAD system for implementing mechanical design tasks. We use CADfix as a conversion software to ensure flexibility with other data formats, however.

We use EPLAN Electric as the CAD system for implementing electrical design tasks. We consistently employ modern design methods to ensure the high quality of our design solutions.

The quality and reliability of our special machines is also largely determined by the quality of our mechanical components. We run a modern mechanical manufacturing facility that operates on a dual-shift basis so that we can deliver results quickly.

The AWM Service Center covers the service elements of maintenance, repair and supply of replacement parts. We offer a variety of services to maintain the availability of our long-lasting special machines:

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- › sale of replacement parts
  - › repairs and conversions (including of machines from other manufacturers)
  - › maintenance & maintenance contracts
  - › training
  - › optimization of supplied products
  - › machine and equipment removals



SPECIAL PURPOSE MACHINES

# PROJECT MANAGEMENT



ANALYSIS, CONCEPT & SALES

DESIGN



CONTROL SYSTEMS

MANUFACTURING



ASSEMBLY

TESTING AND OPTIMIZATION



COMMISSIONING

TRAINING



SERVICE

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We plan, develop and produce automated assembly systems. These are capable of assembling complex parts weighing up to about 5 kg precisely, economically and with absolute reliability. Our consultancy begins with the customer's first product idea. A qualified design team with the latest equipment will find the optimal solution for your requirements. Customers all over the world rely on the fact that our project management operates as perfectly as our machines.



AWM OFFERS FULL SERVICES,  
FROM THE DESIGN TO THE  
FINISHED INJECTION MOLD





AWM AG: YOUR COMPETENT PARTNER

## TOOLMAKING DIVISION

We develop and produce complex 3D injection molds in the toolmaking division. Our consultancy begins with the customer's first product idea. A qualified design team with the latest equipment will find the optimal solution for your product.

Our modern production facility guarantees molds of the highest precision. There is no machine in the world that can replace the skills of the mold-maker. Our experienced employees therefore apply the finishing touches to ensure the best possible result. Thanks to our measurement lab, we can accurately verify the dimensional accuracy and quality of our products. At every stage of product development we rely on up-to-date design and manufacturing technologies. Professional project management ensures that all our orders are fulfilled on time and without problems. Our tool-making specializations are:

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- › multi-component molds for hard/soft plastic parts with conversion, rotary, lock valve and displacement technology and index plate molds
  - › molds with close-contour cooling
  - › stack molds
  - › molds for back-injected molding
  - › molds for high-gloss and design parts
  - › monosandwich molds
  - › molds for complex 3D parts



## TOOLMAKING

## DESIGN, MANUFACTURING TECHNOLOGY AND PROJECT MANAGEMENT.

The basis for our design is formed by the functional specifications document provided by the customer. Our design tasks are implemented using CATIA V5 and VISICad as CAD systems. We consistently perform article analyses and offer optimization proposals for the molded articles to ensure the high quality of our design solutions. Filling and deformation analyses ensure reduced optimization times.

Our experts realize complex 3D part geometries in the most economic manner using our modern 5-axis HSC milling equipment. Efficient manufacturing technology is also available in the areas of wire and die-sinking EDM, turning and grinding. Thanks to a LaserCUSING® system, we are able to offer close-contour cooling to our customers.

Our toolmaking division can produce molds of sizes up to 1400 x 1200 x 1200 mm and mold weights of up to 10 tonnes. We also offer our customers a wide range of services related to toolmaking:

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- › Optimization of article designs
  - › Article analyses
  - › Filling and deformation analyses
  - › Modification and repair of our own and third-party molds
  - › LaserCUSING®

TOOLMAKING

# PROJECT MANAGEMENT



SALES & PROJECT MANAGEMENT

DESIGN



WORK PREPARATION

MANUFACTURING



ASSEMBLY/ TOOL OPTIMIZATION

TESTING AND OPTIMIZATION



QUALITY MANAGEMENT

SERVICE



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We develop and produce complex 3D injection molds. Our consultancy begins with the customer's first product idea. A qualified design team with the latest equipment will find the optimal solution for your product. Our modern production facility guarantees molds of the highest precision. There is no machine in the world that can replace the skills of the mold-maker. Our experienced employees therefore apply the finishing touches to ensure the best possible result. Thanks to our measurement lab, we can accurately verify the dimensional accuracy and quality of our products.





## AROUND THE WORLD, MORE THAN 1000 AWM SOLUTIONS ARE IN OPERATION.

Automation solutions and molds from Arnstädter Werkzeug- und Maschinenbau AG enjoy an outstanding reputation all over the world. Renowned companies use our innovative product solutions throughout the automotive, white goods, medical and general industries.







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