

Your systems partner.

HOLZAMMER

Development • Injection moulding • Finishing • Assembly • Mould making • Model making

Development  
Injection moulding  
Finishing  
Assembly  
Mould making  
Model making



**HOLZAMMER**, whose head office is in Neumarkt i.d. OPf., has been one of the most important system providers for individual and complete components with a focus on medical technology for 70 years.

The **HOLZAMMER** Group's core expertise lies in development and engineering services, model and mould making, plastic injection moulding, surface finishing and assembly, including complex packaging solutions.

Located across the globe, we provide our customers with support from the initial idea to the finished series product.

At our locations in Bavaria and Thuringia we present ourselves as a future-oriented, ambitious corporate group - supported by our 200 highly motivated employees.

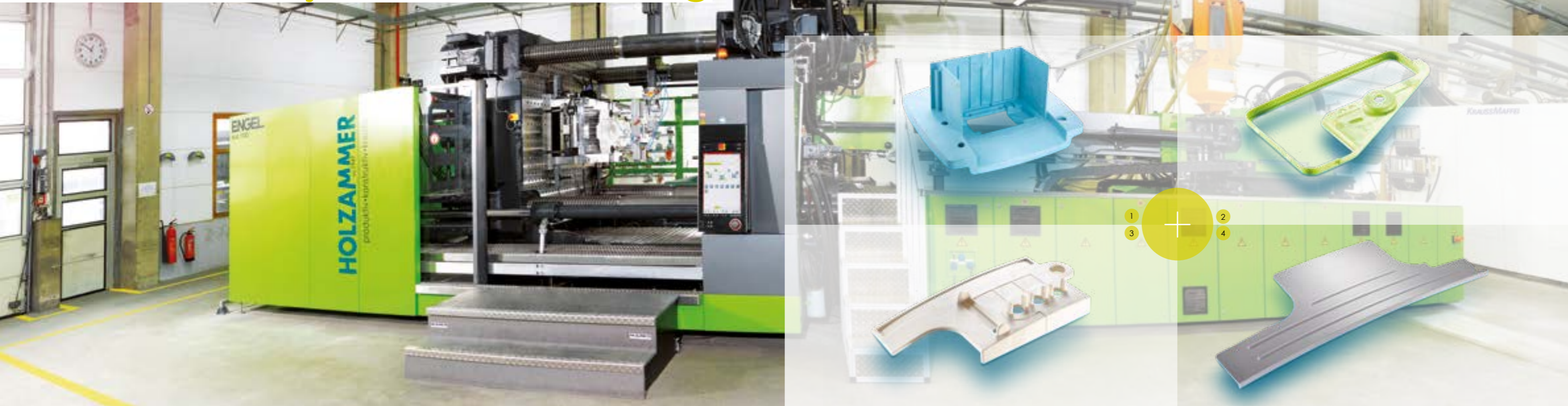
# Development



With each of our **HOLZAMMER** projects, we make use of the great advantage that we combine all expert skills in one place and work hand in hand as an experienced team.

This allows us to monitor each step in the development and creation process and intervene directly if necessary. We thus develop your product so that it is ready for manufacture and assembly, meeting your specified budget and deadline.

# Injection moulding

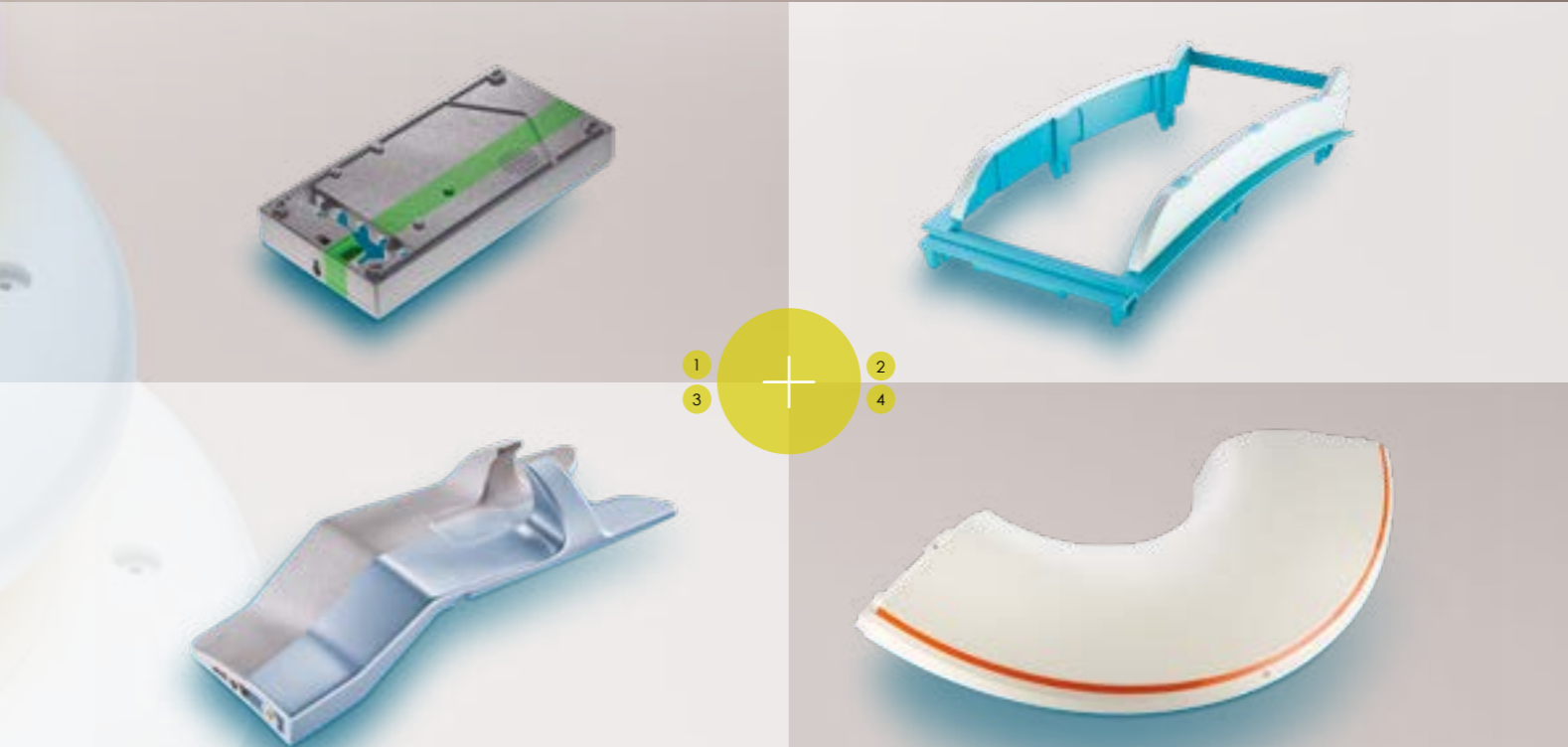


With our modern machinery (locking forces from 1,200 kN to 16,000 kN), we process almost all granulated thermoplastics. Thanks to our optimised workflow that meets the highest quality standards, manufacturing at **HOLZAMMER** is efficient even with small quantities. Thermoplastic foam moulding - one of our areas of expertise - is ideal for complex,

technical components with very different wall thicknesses, for example for large housing components.

- 1 **Chassis** for an anaesthesia machine  
(material: ABS, component weight 11.3 kg, thermoplastic foam injection moulding)
- 2 **Seal** highly elastic (material: TPE green, component weight 73 g)
- 3 **Panel** for a control unit  
(material: ABS V0, component weight 460 g, thermoplastic foam injection moulding)
- 4 **Step cover** (material: TPE grey, component weight 504 g)

# Finishing



The surface finish has a lasting impact on how your product looks. Whether it is a structured or smooth coating, single-colour or multi-colour, we help you to realise your colour design right from the start.

At **HOLZAMMER** the finishing is done using automated robot technology or manually by a specialist painter.

On request, we can also print, apply decals or stickers, metallise or polish each of your parts.

To support the subjective visual assessment of the finished components, we perform a wide range of colour and gloss level measurements for quality assurance purposes, test the adhesion and thickness of the coats of paint as well as the entire component in a special test chamber under standardised conditions.

- 1 **Component** for time recording systems (fine structure),
- 2 for banknote counters (silver smooth finish, semi-glossy, and second colour in fine structure),
- 3 for high-powered diode laser (gloss smooth finish, complicated coating geometry),
- 4 for a cover on the back of a CT device (fine structure, smooth and clear finish as well as two-colour finish)

# Assembly



Our **HOLZAMMER** assembly follows as a final finishing stage. Here we assemble the injection moulded parts produced on custom-configured assembly lines with individual mechanical and electronic (ESD-sensitive) components to create complex assemblies.

After extensive testing and documentation, we will on request ultimately take responsibility for all the logistics through to your production process and, if necessary, also provide optimised returnable packaging for this purpose.

- 1 **Component** for an MRS (magnetic resonance scanner)
- 2 **Assembly** unit for an anaesthesia machine, consisting of approx. 500 individual components
- 3 **Carrier** for a medical device
- 4 **Control panel** for a mammography unit

# Mould making



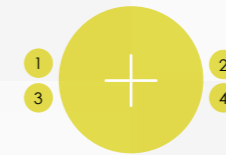
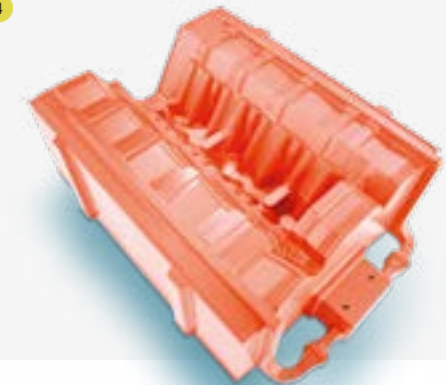
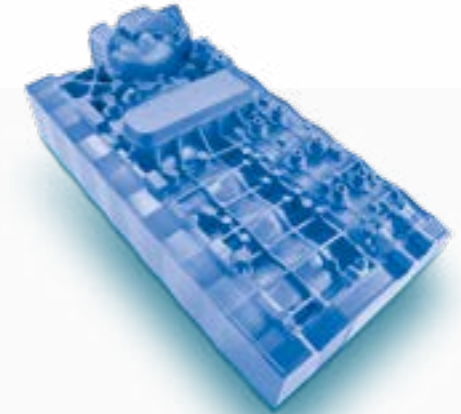
At the main **HOLZAMMER** factory in Sengenthal, we build ultra-precise moulds for thermoplastic injection moulding. Whether for thermoplastic foam injection moulding or compact injection moulding. Our focus is on producing large moulds (in steel/aluminium combinations or all-steel constructions) up to a weight of 15 tonnes and a maximum size of 2,000 mm x 2,000 mm x 1,500 mm. Preventive maintenance and repair of our moulds not only ensures smooth in-house operation, but we also offer this service for third-party moulds.

In collaboration with our **HOLZAMMER** design department, we realise jigs, control gauges and deep-drawing moulds that conform to customer-specific requirements.

Our own prototype construction completes the service we offer.

- 1 **Injection mould** with hotrunner for a component of blood analysers,
- 2 with three inclined sliding carriages for high-powered diode laser,
- 3 in a combined steel/aluminium design for technical measuring instruments,
- 4 with a hydraulic and mechanical sliding carriage for a time recording system

## Model making



We have geared our technical model making to satisfy the typical industry requirements. Our customers include foundries and users of PUR foam technology as well as the other divisions of the **HOLZAMMER** Group.

With a high degree of skill and expertise acquired over many decades, this is where our professionals use machines to create jigs made of a wide range of different plastics, synthetic resins and metals.

With the jigs shown above and the copies made of foundry sand (moulding sand), our customers produce among other things grey cast iron bodies, for example for motors and much more.

Furthermore, we also produce design and visual models, small series and samples for many different applications.

- 1 **Modelling** for a ship's engine,
- 2 for a collecting tray,
- 3 for a refrigerator unit,
- 4 for gearboxes of construction machinery



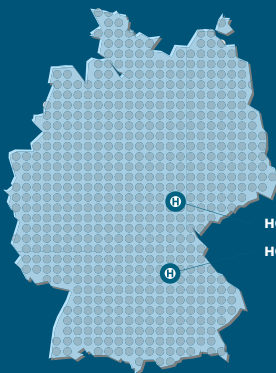
# HOLZAMMER

est. 1949

produktiv • konstruktiv • kreativ



Sengenthal main factory



**HOLZAMMER** Apolda

**HOLZAMMER** Sengenthal (Hauptsitz)

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We look forward to hearing from you.

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