

# Customer-specific drug delivery systems

We turn your visions into products, ready to market

## Full service made by Gerresheimer Medical Systems

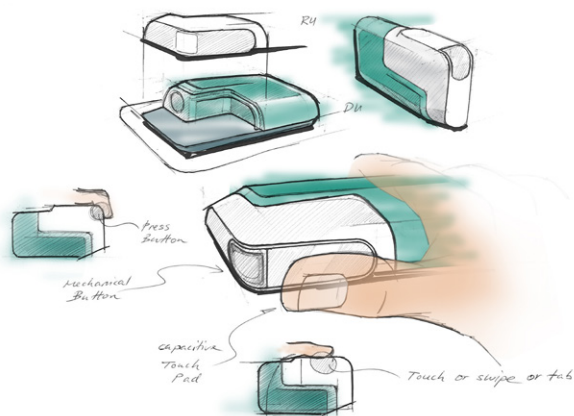
More safety and quality of life for people

The path of a drug delivery system to a market-ready series product is long. Gerresheimer Medical Systems supports you as a full-service provider in all phases of the development process, from the initial development of the idea of a drug delivery system to series production.

We are your **product development partner**, when you wish to realize an initial product idea or develop an existing concept further.

### PRODUCT DEVELOPMENT

- Development of many ideas and product concepts
- Industrial design
- Patent management
- Evaluation of the design concepts in the context of usability studies
- Development of drug delivery devices and pharmaceutical primary packaging materials pursuant to regulations (e.g. MDD 93 / 42 / EEC, ISO 13485, FDA)
- Process development
- Simulations and tests
- Design optimization
- Design for manufacturing
- Functional samples
- Supplier pre-selection, material selection



We are your **industrialization partner**, when you wish to optimize a completely developed product and move it into series production.

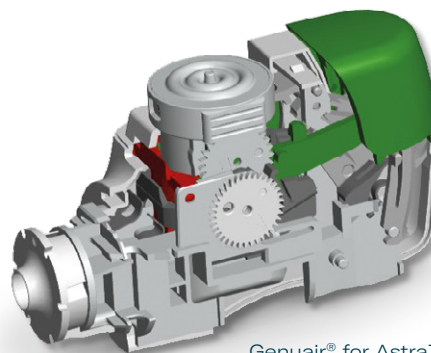
### INDUSTRIALIZATION

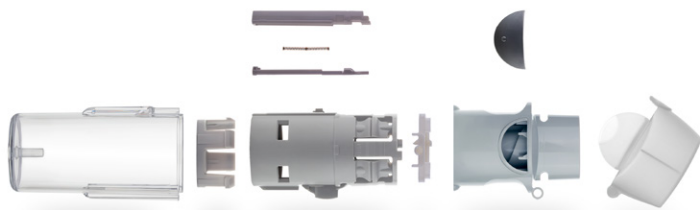
- Mold making:** high performance injection molds for the specific requirements of the pharmaceuticals and health care industry
- Automation engineering:** high performance automation solutions for scalable clean room production

**Small series production:** from the development sample through clinical samples to small series

**Technical center:** proof of principles, process validations, sampling

**Quality lab:** for functional tests, material analyses, and dimensional measuring





Re-useable RespiMat® for Boehringer Ingelheim

We are your

## contract manufacturer

for the production of components with the injection molding process, their subsequent processing, and assembly.

### CONTRACT MANUFACTURING

#### Injection molding in the clean room:

innovative injection molding technologies for more functionality and quality

#### Product refinement:

printing, laser printing, metallization, lacquering, sleeving

#### Assembly:

joining processes like welding and gluing technologies, as well as assembly of plastic parts, metal parts, and electronics

#### Packaging, sterilization, and worldwide logistics:

customer-specific packaging solutions

#### Pharmaceutical assembly and filling:

complete solution including drug loading



## Worldwide production and clean room capacities

Whether fully automatic large series production or manual and semi automatic small series production – we always produce your drug delivery device quick, cost-efficient and with top quality in 15 countries across three continents: Europe, USA and Asia.



SoloStar® for Sanofi

## Innovation and Technical Competence Center in Europe, USA and Asia

Our experts for glass, plastics and intelligent devices develop together with customers drug delivery devices including the primary packaging or electromechanical and digital capabilities.



#### Contact person:

Krisztian Hetey  
Sales Manager Pharma  
Phone +49 152 9003 3700  
Email krisztian.hetey@gerresheimer.com

Gerresheimer Regensburg GmbH  
Oskar-von-Miller-Str. 6  
92442 Wackersdorf  
Germany

gerresheimer