



Profile

# **Goller Systems**

Solution partner for demanding medical technology systems and plastic applications

# Goller Systems Profile

#### **Key Facts**

#### **GOLLER Systems**

Hubertus Goller GmbH Donaustrasse 110 3400 Klosterneuburg – Austria +43 2243 / 328 30-0 www.goller.at

- Founded in 1947
- Currently ~ 50 employees



#### History

- 1950s: Development and production of diverse products made of plastic; mostly household appliances
- 1980s: Focus on diagnostics and medical devices
- 1990s: Start of cleanroom production; further specialization in the field of primary packaging and Medical Devices (Drug Delivery Systems)
- 2012: Expansion of cleanroom production area
- 2013: Registration as tissue bank acc. Austrian Tissue Safety Act
- 2014: New filling machine and expansion of existing infrastructure
- 2018+: Expansion continues under new owners and new managing directors

#### Competences

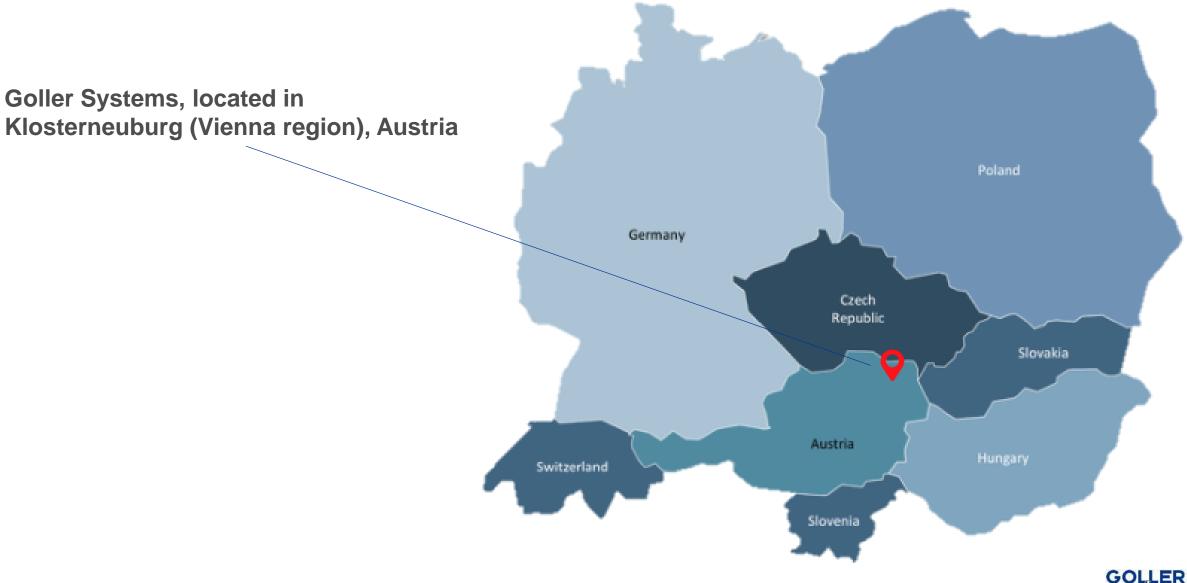
Your development partner and full-service supplier:

- of plastic components and customized system solutions made of plastic
- for the pharmaceutical, diagnostics and medical industries





## Goller Systems & Renggli AG Location



## **Goller Systems** Portfolio

- R&D Plastics Engineering
- Prototyping & Industrialization
  - 3D Printing

#### Production

- Injection Molding
- Micro-Molding
- Printing
- Assembly
- Filling
- Packaging

Clean room environment
 ISO-7 (GMP C)
 ISO-6 (GMP B)

- Sterilization (external partners)
- Warehousing & Logistics services

Product- & Process-Development





# **R&D Plastics engineering, Construction & Industrialization**

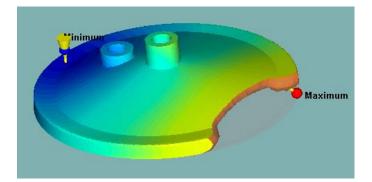
Tailor-made to individual requirements

- Goller cooperates with customers and research institutes in R&D projects
- 3D CAD construction
  - Innovative solutions (several patents!)
- Material selection
- Injection molding simulation
  - Comprehensive manufacturability check
- Rapid Prototyping & Rapid Tooling
  - In-house mechanical production for the manufacturing of prototypes
  - 3D Printing of prototypes and mold inserts

#### Process development

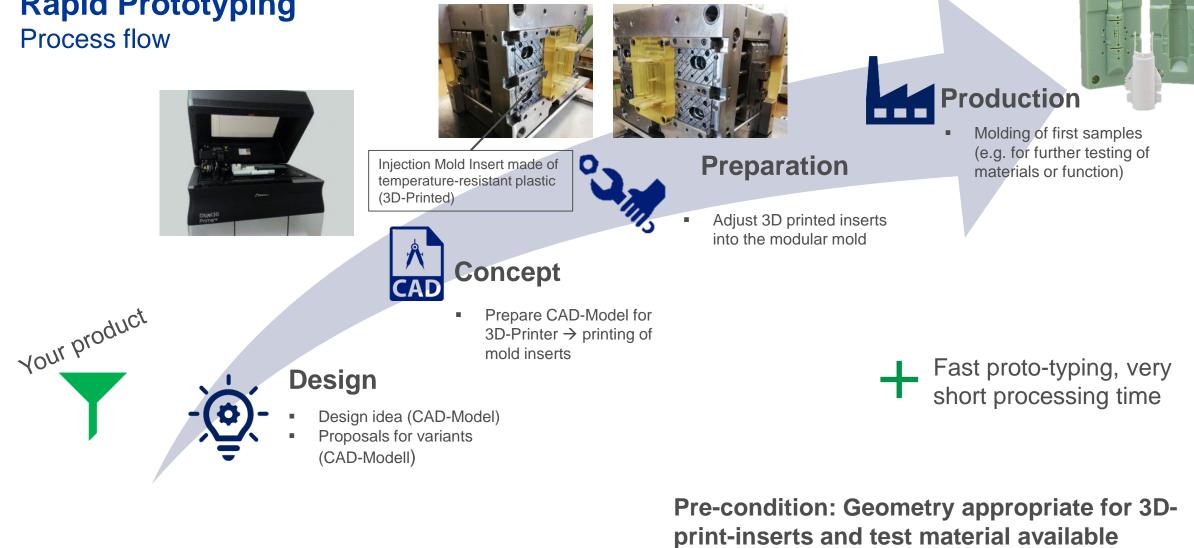
- tools, equipment, automation

"Function, Design, Manufacturability"





## **Rapid Prototyping Process flow**





# Production

Smart processes

#### Injection Molding in cleanroom environment

- Documentation according to your requirements possible
- Machinery
  - Molding according to ISO 14644-1 class 7 (GMP C)
  - Clamping force from 15 to 150 tons
  - All common materials and masterbatches possible (PP, PS, ABS, PMMA, TPE, PEEK, compounds (e.g. radiopaque))

#### Scalable LOT sizes

- R&D trials, Pilot Runs, Product transfer
- Flexible production areas
- ISO-7 (GMP C) environment

#### Product versatility

- Regimes for different kinds of products possible







# **Production** Micro-Molding Technology

#### Molding of parts with micro- and nanostructures

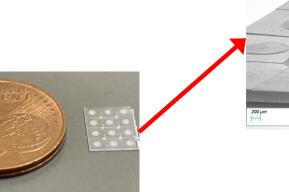
- Equipped with LF-Unit, for clean air up to class 6 acc. to ISO 14644-1
- High-precision due to separated plasticizing and injection unit
- All common materials and masterbatches possible (PP, PS, ABS, PMMA, TPE, compounds (e.g. radiopaque))
- Rotary table for insert molding (e.g. plastic/metal)
- Robot/handling unit for part removal

#### Advantage of using micro molding technology

- Reliable: High precision part geometry and improved quality
- Shot weights: down to 0,05 g to 4 g
- Fast & efficient: up to 50 % shorter cycles
- **Economical:** up to 90 % reduced material waste
- **Resource-saving:** up to 60 % reduced energy consumption



Signal A = SE





## **Production** Smart processes

#### Cleanroom Processes ISO-7 (GMP C) / ISO-6 (GMP B):

- Documentation according to your requirements possible
- Machinery & Processes
  - Assembling, Ultrasonic welding, Gluing, Siliconization, Printing, Labelling
  - Filling (e. g. buffer solutions, powders, liquids)
  - Blister packaging (hard-/soft blister)

#### Scalable LOT sizes

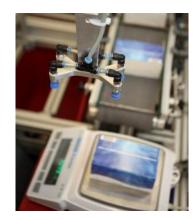
- R&D trials, Pilot runs, Scale-up
- From manual to semi-automatic to automatic

#### Flexible production areas

- ISO-7 (GMP C) / ISO-6 (GMP B) / "A in C" possible

#### Product versatility

- Regimes for different kinds of products possible
- From metal to plastics (parts, assemblies, bags, ...) to liquids / powders to human tissue





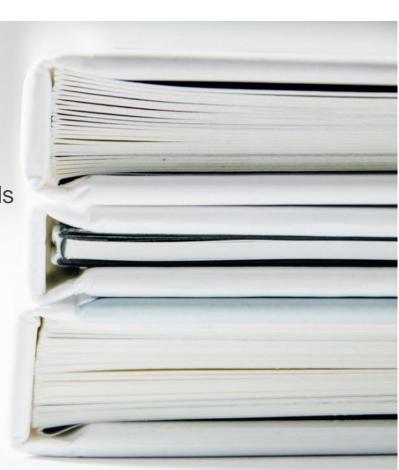




# **Compliance & Quality Management**

Safe & reliable processes

- Integrated Quality Management System Approach
  - ISO 9001 (General)
  - ISO 13485 (Medical Devices)
  - ISO 15378 (Primary Packaging)
- Development, Design Control and Risk Management Processes customizable/integrable into your Quality System according to your needs
- Comprehensive (Design)-documentation available to our customers
  - US: DHF, DMR, DHR
  - EU: Technical File, Design Dossier, Batch Record
- Qualification/Validation and Documentation activities (Equipment, Process, Method) can be aligned and highly customized according to your needs
- Reliable Change Control System





# **Goller Systems**

## From development to serial production – from a single source

#### **High Performance Partner**



- Solid Enterprise:
  Successful Austrian company
- Committed Team: Diverse know-how under one roof
- Target-oriented approach: Hands-on, accessible, personal

#### **CDMO & Outsourcing Partner**



Manufacturing according to your specifications



Outsourcing partner for individual tasks

#### Your benefit:

- Focus on your competencies
- Optimization of your resources

#### Lean & Fast

# Our corporate structure & culture: Lean Management

- Short reaction time
- Quick decisions
- Smart processes



Fast Time to Market



#### Innovation Track Record

#### Our credo: Your Future Today

State-of-the-art is history tomorrow; Creating the future is our mission today!

# PAF

#### **Our Approach:**

- Visionary: R&D projects inspired by pioneering spirit
- Putting into practice: Strong in delivering results – we get things done!



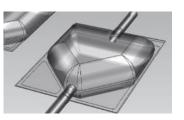
# **Goller Expertise**

#### Medical and pharmaceutical sectors

Primary Packaging

- Drug Delivery systems
- Bag Systems with connectors (filled with buffer solution)



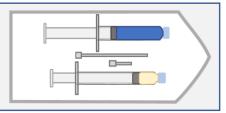


#### Application Systems

Application NeedlesSpray Head Systems



Transfer & Mixing Systems Fluids, BloodPowders







Diagnostics Test Cartridges

- Allergy-Test (300 Allergenes)
- Flow-Test (Screening)







## Contact

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# GOLLER vstems from vision to realisation

