

The logo features a blue diamond shape with a white arrow pointing right, followed by the word "SIMON" in a large, bold, blue sans-serif font. Below "SIMON" is the word "SINTERLUTIONS" in a smaller, blue, all-caps sans-serif font.

SIMON
SINTERLUTIONS



MADE IN GERMANY

SINTERING
YOUR IDEAS

Simon Sinterlutions GmbH & Co. KG is one of the companies of the SIMON Group, based in the southwest of Germany. Starting in 1972 with bearings, today we combine high precision manufacturing processes to provide complex components ready-to-install for automotive industries, power tools, mechanical engineering, fixtures and many other applications.

With regard to protecting resources, saving material and weight and producing economical products the sintering process is a competitive alternative to regular machining processes.

A wide range of metal powders, complex presses and good knowledge of powder metallurgy enables us to manufacture components fulfilling various requirements of our customers. SIMON Sinterlutions is specialised in components with an operating weight of up to 300 g.

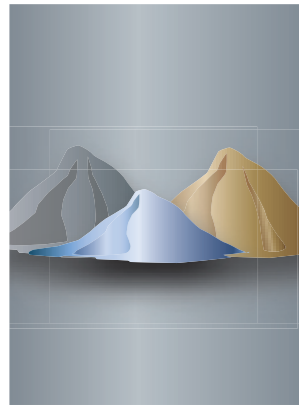
Through the use of mechanical, hydraulic and servo-electric multi-level presses, with press forces up to 1600 kN, and several CQI-9 certified continuous furnaces, we can realize your product ideas.

Many additional finishing steps extend the manufacturing options. As a portfolio company of the INDUS Holding AG the SIMON Group is well positioned for innovation, growth, technical progress and economical stability.



SIMON
SINTERLUTIONS

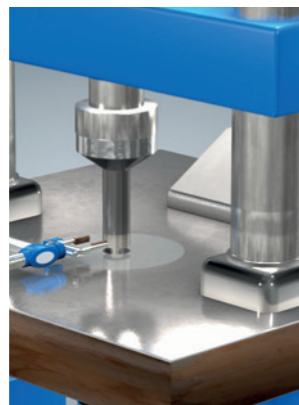
MANUFACTURING PROCESS



1

POWDER METALLURGY

- Steel powders
- Bronze powders
- Soft magnetic powders



2

PRESSING

- 26 powder presses
- Press forces 40 – 1600 kN
- Mechanical presses
- Hydraulic multilevel presses
- Servo-electr. multilevel presses
- Component density up to 7,4 g/cm³
- Presses equipped with automated handling systems



3

SINTERING

- 3 conveyor furnaces (CQI-9)
- 1 walking beam furnace
- Rapid cooling equipment at 2 furnaces
- Tempering furnace



4

BARREL FINISHING

- Trimming
- Edge filleting



5

CALIBRATING

- 16 calibrating presses
- Press forces 100 -1200 kN
- Tolerances up to IT 7
- Additional compacting process



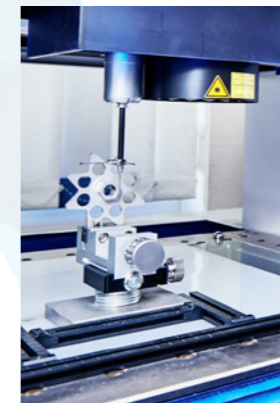
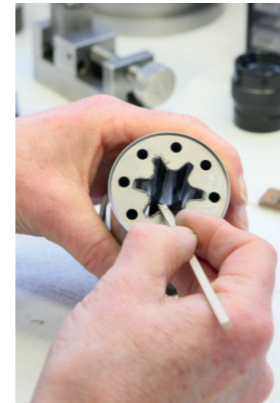
6

POST PROCESSING

- Cleaning
- Coating
- Thread cutting
- Infiltration
- Hardening

**For more options:
Please contact us.**

► **IMPLEMENTING YOUR IDEAS**



1

YOUR IDEA

- Your CAD drawing
- Your concept
- Your vision

2

CONSULTING & SUPPORT

- Personalised response to customer idea
- Long experience in tool manufacturing and powder metallurgy
- Intensive collaboration with your technical department
- Common path to the producible part

3

DESIGN SOLUTIONS

- Optimisation proposals
- Rapid prototyping
- Joint measuring and testing

4

IN-HOUSE TOOLING

- Short way to the tool shop
- Common tongue
- Flexible reaction
- Direct support

5

START OF PRODUCTION

- Project management
- Safe launch process

6

STABLE QUALITY

- 3D-measuring machine
- Material testing
- Metallographical lab
- Scanning electron microscope (SEM)
- Self developed automated inspection systems

► **Fulfilling the high requirements of our different customers, ensuring our components always offer an outstanding profile of characteristics and facilitating continuous ongoing development requires a high level of methodological competence and the most modern testing technology available.**

YOUR IDEAS

JOINT DEVELOPMENT

ENGINEERING

SUSTAINABILITY

TECHNOLOGY

CREATIVITY

CONSULTING

INNOVATION

BUSINESS PARTNERSHIP





KONTAKT

SIMON Sinterlutions GmbH & Co. KG
Sulgener Str. 21 – 23
D-78733 Aichhalden

Fon: +49 (0) 74 22 / 5 65-0
Fax: +49 (0) 74 22 / 5 65-444
E-Mail: info@simon-sinterlutions.de