



**Honing, lapping, polishing  
and brush deburring**

**JOB ORDER PRODUCTION  
IN MACHINING AND MICROFINISHING**

[www.flp-microfinishing.com](http://www.flp-microfinishing.com)

# JOB ORDER PRODUCTION

Competence in precision surface treatment

FLP Microfinishing GmbH are absolutely the right choice when it comes to honing, lapping and polishing. Individual or series parts, small parts or prototypes – we will use our knowledge, our competence and our experience precisely for your requirements.

We can machine workpieces with different materials and in diverse shapes and sizes with the highest accuracy and precision. Our modern machine park and experienced employees, who undergo continuous further training in-house, can guarantee the highest level of precision and innovative machining processes.

High-performance measurement and programming systems support the certified and audited processes and procedures.

FLP Microfinishing GmbH will process your workpieces quickly, reliably and precisely.

**Precision, made in Germany**  
**Superfinishing from FLP Microfinishing GmbH**





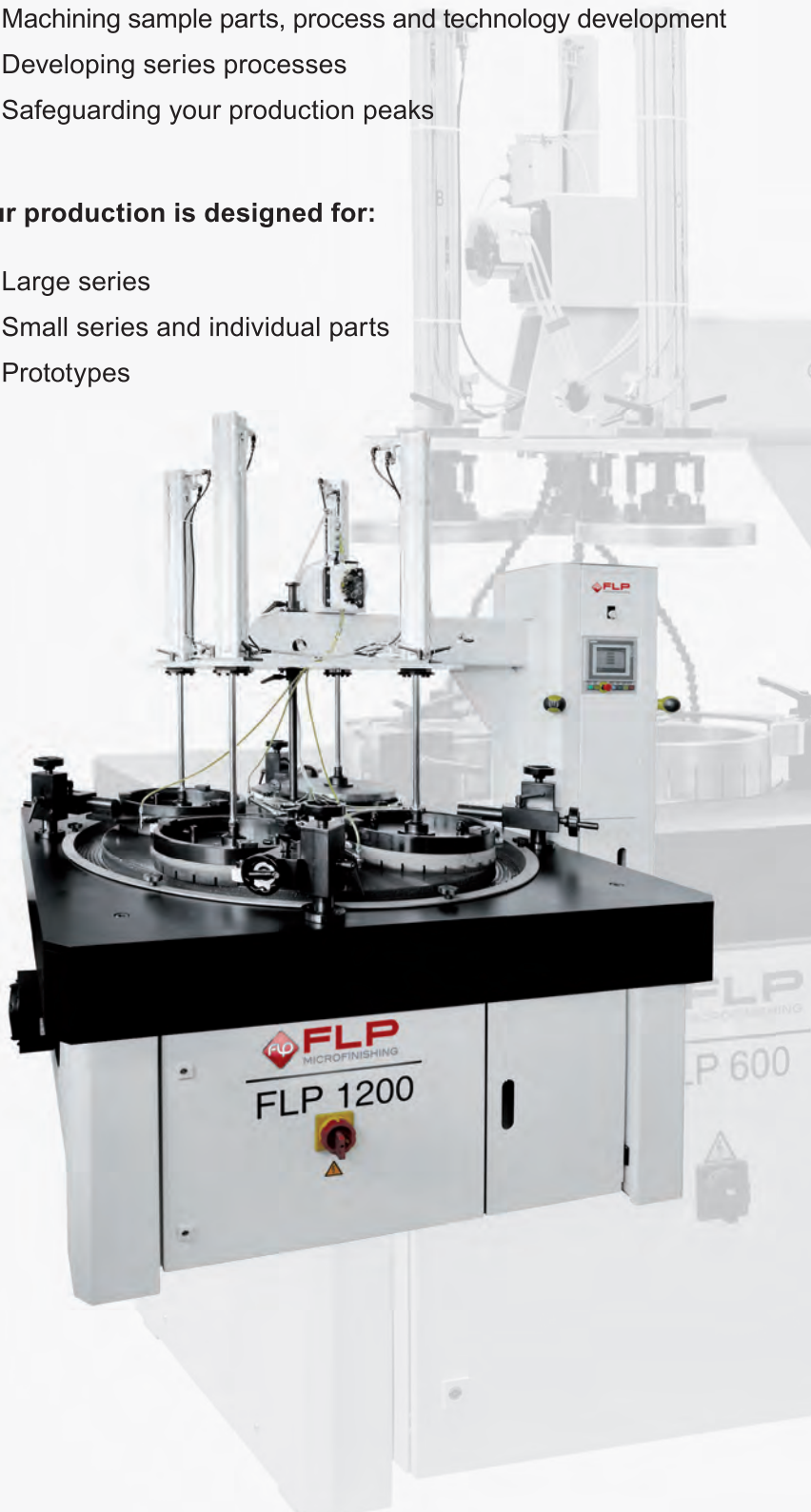
What can we do for you? What can we offer you?

**Our services:**

- Taking on your supermachining orders with flat honing, honing, lapping, polishing and brush deburring
- Machining sample parts, process and technology development
- Developing series processes
- Safeguarding your production peaks

**Our production is designed for:**

- Large series
- Small series and individual parts
- Prototypes



# MICROFINISHING

## Range of services

Grinding, lapping and polishing on modern grinding, lapping and polishing machines to a high quality at a fair price-performance ratio. The machine park includes a large number of single-disc and dual-disc machines with a high degree of specialisation.

Thanks to a highly modern and flexible organisation, the job order processing of individual parts and small series is designed to be just as efficient as for large series in the automobile industry.

### The overview:

- Flat honing, honing, lapping and polishing
- Process documentation, measurement value documentation and structural analyses
- Brush deburring





### Our range of materials:

- Tool steel
- Light metal
- Precious metal
- Non-ferrous metal
- Sintering metal
- Hard metal
- Ceramic
- Plastic
- Insulating material
- Glass
- Crystalline materials
- Organic material
- Carbon
- Graphite



### Sector solutions:

We perform microfinishing services for customers in the following sectors:

- Automobile industry
- Vehicle construction
- Mechanical engineering
- Medical technology
- Watch manufacture
- Pump construction
- Optics industry
- Ceramic industry
- Engine construction
- Aircraft construction
- Electronics industry



### Planing and parallel planing:

- Thicknesses 0.1- approx. 900 mm
- Diameter/edge length 0.8 - 1900 mm
- Evenness  $< 0.1 \mu\text{m}$  to  $1/30 \text{ Lambda}$
- Parallelisms  $< 0.1 \mu\text{m}$
- Surface finish  $< \text{Ra } 0.001 \mu\text{m}$  (1 nm)
- Workpiece weight  $< 1500 \text{ kg}$



### Cylindrical lapping and polishing:

- External diameter 2 - 500 mm
- Lengths 10 - 800 mm



### Washing:

- Series and mass-produced parts according to customer specifications in fully automated systems
- Dimensions of up to 400 x 600 mm rotating
- Ultrasound for components with cross drillings
- Dimensions of up to 360 x 760 mm still
- Ultrasound from the vertical line





## Test centre

The greatest customer specifications according to part qualities which are not achievable using traditional production technologies are developed in our test centre together with our partners.

We are always striving to meet the growing requirements and expectations of the industrial market through product and process innovations, and enable a transition into series production using new structural demands with innovative solutions.



**HIGH END precision machining  
Our innovation – your advancement**

**FLP Microfinishing GmbH  
Made in Germany**

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