Company Presentation
01/2019
WE ARE UKM.
Key Facts

- company foundation 1912
- approx. 600 employees
- turnover 2018: Euro 75 million
- experienced series supplier in various areas
- high-precision components with a high production depth

Reinsberg
- cold forging
- mechanical processing
- heat treatment & surface treatment

Radebeul
- aluminium hot forging
- mechanical processing
- heat treatment & surface treatment

Meißen & Vieux-Charmont
- cold forging
- mechanical processing
WE ARE UKM.
Shareholder Structure

CMP
German Opportunity Fund II SCA

UKM Holding GmbH

UKM Antriebstechnik GmbH
UKM Fahrzeugteile GmbH
UKM Umformtechnik GmbH

UKM Management GmbH
Umformtechnik Radebeul GmbH
IPM France SAS
WE ARE UKM.
Development & Project Management

- develop processes – exploit potentials
- „everything from a single source“
- professional project management
- design of own testing and tool concepts
- modern design workstation with simulation programs
- continuous improvement process according to Kaizen
TECHNOLOGIES AT A GLANCE

COLD FORGING OF STEEL & HOT FORGING OF ALUMINIUM
- Shears and presses with press forces up to 640 metric tons
- Hot forging presses up to 1600 metric tons

SCUDDING OF GEARS
- Skiving
- Broaching, non-circular turning, profiling

GRINDING & SUPERFINISHING
- Machine centers for grinding
- Camshaft grinding

TURNING, DRILLING & MILLING
- Milling centres
- Deep hole drilling machines

INSTALLATION
- Fully automated
- Manual

HEAT TREATMENT
- Annealing
- Hardening

SURFACE TREATMENT
- Anodizing
**CORE SKILLS**

I – Cold Forging & Aluminium Hot Forging

**Highlights:**
- Form accuracy 0,05 mm
- Surface quality Rz4
- Internal and external gear (quality ID8)
- Thin-walled parts for high complex structures
- Small and medium batches with a high production depth

**COLD FORGING**
- Machines: horizontal and vertical presses
- Press force: 100t – 640t metric tons
- Workpiece mass: 40g – 800g
- Workpiece length: max. 110 mm
- Workpiece diameter: max. 50 mm

**ALUMINIUM HOT FORGING**
- Machines: forging presses up to 16,000 kN
- Workpiece mass: up to 6 kg
- Workpiece diameter: max. 500 mm diameter

**Materials**
- C45; 17Cr3, 16MnCr5, 42CrMo4, 100Cr6, EN-AW 6082, 7075, 20.., etc.
Highlights:
- low distortion during heat treatment processes
- determination of dimensional deviation in relation to the material charge
- own test laboratory

- chamber furnace
- electron beam hardening
- annealing furnace
- case hardening
- induction hardening

- fully automatic chamber furnace
- fully automatic electron beam hardening
- recrystallization annealing is performed in an annealing furnace
- fully automatic chamber and inline furnace
- fully integrated in production lines
**Highlights:**
- special contours (convex, concave)
- circular run out 5µm (cmk>2.00)
- surface quality Rz0,3; Rpk0,6; Rk0,9, Ra0,3; Wt0,45
- single traceability (DMC)

**Grinding**
- CNC-machine centers
- grinding length up to 400 mm
- workpiece diameter up to 150 mm

**Superfinishing**
- CNC finishing machine
- workpiece diameter up to 300 mm
- distance between centers from 50 to 500 mm

**Materials**
C45; 17Cr3, 16MnCr5, 42CrMo4, 100Cr6, EN-AW 6082, 7075, 20.., etc.
CUSTOMER PORTFOLIO - EXTRACT

75 Mio. €
industry-related distribution of sales of the UKM Group

- Automobile: 85%
- Two-wheeler: 8%
- Awnings: 3%
- Others: 4%
- development and expansion of new and existing branches of industry
- involvement of product development and product design
  - special surface designs for high stressed precision parts
  - hybrid material designs
  - weight reduction by design changes and use of alternative materials
  - development of production processes for ultra high carbon materials
Thank you for your attention!

www.ukm-gruppe.com

www.umformtechnik-alu.de