



Solid, asymmetrical cold extruded parts (10 - 300 g) are formed at room temperature in knuckle-joint, eccentric or multi-stage cross transfer presses with a press force of up to 10,000 kN in large scale production.

Post-processing with ultra-modern CNC lathes and CNC machining centres

In-house mould- and tool making







### **Cold forming**



Aluminium die castings from 10 g - 8 kg in EN AC 47100, EN AC 43500 14 casting cells from 250 - 1,400 t

Focus on pressure-tight parts

In-house mould- and tool making

Finishing and further processing with on 14 CNC machining centres (Chirón, Mazak, Kitamura)







### **Aluminium die-casting**



Aluminium die castings up to 35 kg in common alloys 20 casting cells from 200 - 3,000 t In-house mould- and tool making Finishing and further processing on

25 CNC machining centres Assembly of components







## **Aluminium die-casting**



Zinc-die casting parts from 10 g - 1.5 kg in the common alloys Functional and surface parts

12 die casting machines from 90 - 200 t clamping force

Finishing and further processing on CNC machining centres

Assembly of components

In-house mould- and tool making







# Zinc die-casting



Sintered parts from 5 g - 3.5 kg of steel, stainless steel, copper, aluminium or magnetic material

12 presses from 4 - 750 t, 5 furnaces up to 1,450 °C

Finishing and further processing on partly fully automated CNC machning centres

In-house mould- and tool making

Assembly of components







Complex hot forged brass parts from 20 g - 6 kg in all common alloys (incl. lead-free/low-lead brass according to drinking water regulations)

 $14\ presses$  from  $200\ to$   $600\ t,$  finishing and further processing on transfer- und multicentet machining facilities



In-house mould- and tool making Common surface treatment processes Assembly of components



### **Hot forging**



Precision turned parts made of brass alloys (also lead-free) and gunmetal from bar (6 - 90 mm) and up to 220 mm of bar section

Over 170 state-of-the-art CNC single and multi-spindle machine

The entire production, full assembly and testing of the assemblies guarantee efficient processes and the best, tested quality

Leading supplier of valve technology



### **Turning technology**



Automatic turned parts made of all common materials with diameters of 0.6 - 38 mm und Längen von 1,000 mm

50 sliding headstock lathes, 10 CNC lathes, 9 ring lathes, 6 rotary transfer machines







# **Turning technology**



Development services up to series-ready production of electrical assemblies with innovative production technologies,

e.g. vapour phase vacuum soldering, assembly and bonding technology, potting, encapsulation and transfer moulding  $\,$ 

Production of individual modules and assembly of complete systems



**Sensors and electronics** 



# **Selection of references:**



#### Contact us

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