



## **J. Hauser GmbH & Co. KG – a name stands for quality.**

Since 1921 a producer of optical components. Located in Solms (near Wetzlar - Germany) since 1952. Hauser is an established player in the market of optical manufactures and one of the leading companies for precision spheres worldwide.

### **Tradition, close to more than 100 years of optical production. The Hauser Milestones:**

- 1921 – Founding of the company in Reichenbach (Saxony)
- 1952 – Moving to Solms (Hesse)
- 1960 – Starting the production of Precision Spheres
- 2014 – Certification to DIN EN ISO 9001:2015
- 2015 – The Hauser Optik gets involved in the research and production of the new standard Kilogram with the PTB

### **Products. Precision – Hauser has a complex product range.**

- *Precision Spheres*  
(Production sizes: < 0,5 – 120 mm; diameter tolerance +/-0,001 and can be less on request – which is dependent from the diameter; roundness less than  $\lambda/10@632,8$  nm from all optical glasses; fused silica; Silicon; Germanium; CaF<sub>2</sub> and Steel); standard cleanliness is SD 20-10.
- *Precision Semi-Spheres.*
- *Drum Lenses* (Production sizes < 3-100 mm).
- *Molded Aspherical Lenses* – Made for avoiding spherical aberration.  
(Input materials: Liba 2000+; F2; Borosilicate Glass); focal length tolerance +/-5%; standard cleanliness is SD 60-40.
- *Spherical Lenses* (molded and conventionally manufactured) – one of their sides can be a section of a ball – input materials conventionally manufacture: all optical glasses; fused silica; Silicon; Germanium; CaF<sub>2</sub> and Steel.
- *Molded Lightning Optics* (one- and two-sided blank molded; sph. Side in cut and polished forms).
- *Molded Free-Form Lenses* – designed for customer's wishes and special requirements  
(Input Materials: Liba 2000+; F2; Borosilicate Glass).
- *Molded Mirrors* (Input Materials: Liba 2000+; F2; Borosilicate Glass).
- *Plane Optics.*
- all components are available with and without Coating.

### **Together we can do more with:**

- The know-how of many long experience
- Short parts within our company
- The technical competence of the Hauser Team

### **Custom Solution:**

- Most of our products constructed specifically to customer requirements.
- Many different Materials.
- Great variety of shapes and design, especially of free-form surfaces.
- Special flexibility is a small serious possible, very quick development if demanded.