



KRAMSKI

MICRO STAMPED PARTS FOR HEARING ACOUSTICS

MINIATURIZATION

IN THE

STAMPING INDUSTRY



**COMPACT
AND POWERFUL**

CHARGING CONTACT

*Position of the charging contact
in the housing of a hearing aid*

As high-precision connection components, KRAMSKI stamped parts have established themselves as reliable and trusted connectors in millions of wireless, rechargeable hearing systems from leading manufacturers. Our miniaturized solutions combine outstanding electrical conductivity with mechanical durability – even at the tightest tolerances and within highly complex geometries. Manufactured with proprietary processes

and ultra-precise tooling, our components set standards at the micrometer level: delivering secure contacts, long-term reliability, and extended product lifetimes. Whether used as charging contacts, interconnecting elements, acoustic guides, or housings – from material consulting to full-scale production, we're your trusted technology partner for hearing solutions.



MINIATURIZATION TECHNOLOGY DESIGNED AROUND YOUR NEEDS

To meet the unique demands of miniaturized hearing systems, we combine multiple precision technologies. Progressive and multi-stage tooling integrates stamping, bending, and forming into a single process. Contact riveting ensures micro-exact joints that guarantee optimal conductivity and mechanical strength. Deep-drawing processes create dimensionally accurate contact areas with smooth surfaces that are corrosion-resistant thanks to selective coatings – and ideally suited for laser marking. With

tooling for sheet thicknesses starting at 0.07 mm and integrated inline measuring systems combined with advanced inline cleaning, we deliver maximum process reliability – ensuring consistent quality and particle-clean components that meet the strict purity requirements of medical technology. In addition, the combination of metal and plastic technologies enables the realization of hybrid parts with maximum functionality and reliability.

KRAMSKI AT A GLANCE

>40

YEARS OF EXPERIENCE &
SUCCESSFUL MANUFACTURING

>3 BN

STAMPING & PLASTIC-METAL
COMPOSITES PER YEAR

4
WORLDWIDE
LOCATIONS

GERMANY, USA, INDIA &
SRI LANKA

CERTIFIED QUALITY

IATF 16949

ISO 9001

ISO 14001

ISO 50001

OUR COMPETENCIES

- DEVELOPMENT PARTNER FOR PRODUCT AND PROCESS OPTIMIZATION
- SINGLE-STAGE PRODUCTION WITH DIFFERENT MATERIALS AND THICKNESSES
- HIGHEST FLEXIBILITY AND PRODUCTIVITY IN COMPLEX GEOMETRIES

THE KRAMSKI SOLUTION

STANDARDIZED & CUSTOMER SPECIFIC

The series production of miniaturized contact components for hearing systems demands the highest levels of precision, process stability, and material expertise. Together with our customers, we develop solutions that integrate seamlessly into any device architecture – from standardized contacts to fully customized

components. Whether delicate, complex in shape, or made from advanced material combinations: KRAMSKI delivers the right solution for every miniaturization challenge – reliably and efficiently.

4 REASONS FOR KRAMSKI

①

MAXIMUM EFFICIENCY

Efficiency-optimized output thanks to long tool-life and high stroke rates

②

GLOBALLY CONNECTED PRODUCTION

Maximum flexibility thanks to globally positioned value creation

③

COMPREHENSIVE DEPTH OF PRODUCTION

Holistic view and processing of projects across all levels

④

100% INSPECTION POSSIBLE

Uncompromising quality management at all stages of the project

Like no other partner, we address our customers' challenges with more than 40 years of experience in high-performance toolmaking and the series production of highly complex parts. Our extensive technical know-how complements our ability to develop tailored solutions and adapt tools and manufacturing processes to the individual needs of our customers.

The realization of complex geometries, advanced material combinations, and the smallest dimensions at the tightest tolerances is our strength. Our constant striving for perfection makes us the ideal partner for the development and series production of miniaturized components in modern hearing systems – today and tomorrow.