

ZOLLERN

Solid metals. Fine solutions.

Special profiles
and finished parts

Medical
technology



Why choose ZOLLERN?

Your benefits at a glance

- Greater functional integration instead of just cold drawing
- Profile optimisation for material and cost efficiency
- Surface quality can be precisely controlled already in the manufacturing process
- Biocompatible materials suitable for medical technology
- Geometries for high-end instruments, robotics and diagnostics
- High precision, repeatability and consistent series production
- A reliable development partner, not just a supplier

Precision that connects.

Quality that builds trust.

For over three centuries, we have stood for collaborative partnership, technical excellence and reliable results. Our specialised profiles and pre-finished components for medical technology set standards – from the initial idea to readiness for serial production.



Precision, responsibility and trust – for medical technology solutions that exceed expectations. <<

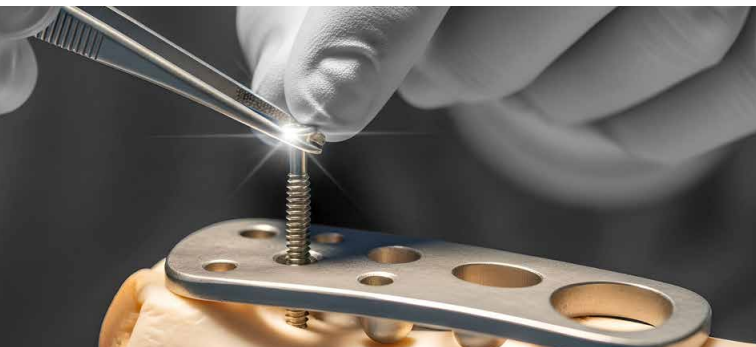
Precision, purity and efficiency for meeting the highest standards

Medical technology places the highest demands on precision, surface cleanliness and reliable manufacturing processes.

»» ZOLLERN develops special profiles that meet these requirements in every respect – with unparalleled precision, outstanding purity, and safe and efficiently designed production processes. ««

Typical applications in medical technology

- **Surgical instruments** - Precise profiles for handles, guides and functional parts
- **Guide rails and linear systems** - Stable and highly precise for surgical motion and positioning systems
- **Robot-assisted surgery** - Structural and functional profiles for surgical assistance systems
- **Device housing and structural components** - Lightweight, hygienic profiles for device design and analytical equipment
- **Implant-related components** - Corrosion-resistant profiles for mechanical structures in the implant environment
- **Laboratory and diagnostic technology** - Precision profiles for drive, guidance and coupling systems
- **Bone drilling wires/Kirschner wires** - Precision pins made from implant-grade steel for bone fixation
- **Special profiles according to drawings** - Unique geometries manufactured precisely to customer specifications





Surface quality and hygiene

Our profiles consistently and reliably support the hygienic requirements of medical systems:

- Very low surface roughness for sterile applications
- Functionally increased surface roughness for anchoring or coating
- Friction-optimised surfaces for moving systems
- Ideal basis for polishing, passivation and functional coatings

Precision and dimensional accuracy

- Minimal torsion and linearity
- Process-stable serial production
- Precise fit
- Very tight tolerances



Material properties

Our special profiles meet the highest mechanical, chemical and functional requirements:

- **Mechanical properties**
 - High stiffness and dimensional stability
 - Resistance to fracture, compression and bending
 - Excellent fatigue and wear resistance
- **Processability**
 - Great further processing (machining, forming and polishing)
 - Materials with maximum resistance to common cleaning and sterilisation processes



Efficient and intelligent

Do more with less material – ZOLLERN optimises your process chain. Our profile-specific design creates real efficiency advantages:

- Up to 60% material savings through functionally optimised cross-sections
- Less rework is required since contours and surfaces are already manufactured with precision
- Reduced process steps thanks to the integrated function in the profile
- Fast throughput times, high flexibility



Special profiles
and ready-to-install
components



ZOLLERN-Products



ZOLLERN-worldwide

ZOLLERN

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