

EXTRACT

Business area: precision parts, mould construction and assembly supplier

Precision technology



„The secret of success is understanding the other's viewpoint.“

Henry Ford

TRUST

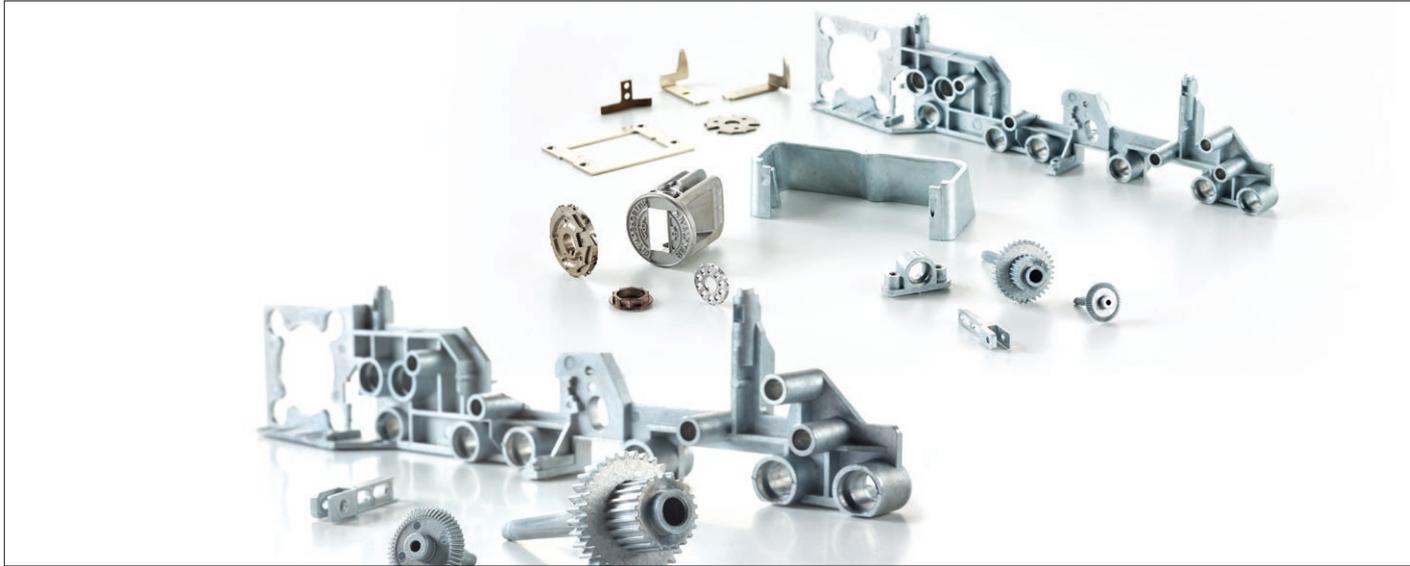
REINER was founded in the Black Forest in 1913, in the "germ cell of precision and fine mechanics". A trusting and cooperative partnership with our customers was important to us from the very beginning. It virtually is part of our DNA! In the course of decades, many great technical innovations have been developed further from our customers' ideas and produced by us. We are proud of this and grateful for it.

The secret of this story of success continues, however. REINER enjoys an outstanding reputation as a specialist for precision parts, in mould construction and as a supplier of assemblies. On an area of 15000 sqm, 200 highly qualified employees are now producing precision parts for many different industries.

We consider ourselves innovative production partners of our customers that reliably supply highest precision. This is what we are known for.

PERFORMANCE

Our core competence is in the highly precise and innovative processing and finishing of plastics and metals. From design to tool construction to the complete assembly, REINER specialists always use the state-of-the-art production and test facilities. In connection with an unusually large production depth, we guarantee optimised processes for the narrowest tolerances, complex geometries and demanding surfaces, no matter if you need a serial part ready for installation or the completely installed assembly. Your benefit: everything from a single source.



WHAT WE OFFER

ZINC DIE-CASTING AREA

Zinc die-casting permits casting of extremely delicate, thin-walled and technically high-quality parts at a very high degree of accuracy. Its longevity makes zinc die-casting an economically highly interesting procedure.

**ZINC DIE-CASTING: The optimal alternative for aluminium die-casting!
For delicate and geometrically highly complex parts.**

FACTS



Batch size:	small numbers up to 50000 pieces and more
Dimensions:	400 x 600 mm tool clamping area
Machine type:	hot-chamber die-casting machine
Closing force:	5 – 125 tons
Materials:	Z410 / GD-ZNAL4CU1

METAL INJECTION MOULDING (MIM) AREA

Complex precision part production without machining. MIM "metal-injection moulding" technology opens up entirely new options. Since the concept originates in plastic injection moulding, MIM virtually offers the same unlimited options and brings the desired freedom in geometry and materials. The result, however, is a high-quality metallic precision part! MIM uses a single production process with higher precision for anything from bores and transverse bores to threads, lamellas and even relief-like structures such as logos, designations or item numbers.

**MIM: The economic alternative.
One single process replaces many steps.**

FACTS



Batch size:	variable, between 5000 – 20000 pieces
Dimensions:	400 x 700 mm tool clamping area
Machine type:	Arburg 270-MIM
Closing force:	50 tons
Materials:	100Cr6 (low-alloyed steel), 316LA (stainless and heat-resilient steel) and others



PRECISION CUTTING / FORMING AREA

Perfect geometries without rework. REINER precision cutting with concurrent forming technology ensures large piece numbers at low unit costs. Large presses punch many parts from a sheet with a cutting tool. The particular economic efficiency of this production method results from replacing three, or even four, work steps by one pressing step: cutting, forming, embossing, smoothing and deburring.

PRECISION CUTTING: Precise parts with accurate dimensions, with tear-in- and tear-off-free cutting edges. Post-processing is a thing of the past. Economically efficient production is the present.

FACTS



Batch size:	1000 – 50000 pieces
Dimensions:	500 x 500 mm tool clamping area
Sheet thickness:	0.5 – 4 mm
Machine type:	Schmid fine punching press 250T
Materials:	16MCr5, CK45, CK75, 1.4306

TOOL CONSTRUCTION AREA

Precision punching tools and moulding tools for precision parts from the cradle of German precision mechanics. REINER manufactures precision-engineered products and has always been trusting in its in-house tool production for precision punching and formed parts.

All processes are implemented "in-house". Only this way can we offer the highest quality at all times. Full service includes: tool design, CAD & CAM sink erosion, wire erosion, flat, round, profile, coordinate grinding, state-of-the-art machining centres and precision lathes, coordinate measuring technology, maintenance and servicing, as well as fire-proof tool storage.

TOOL CONSTRUCTION: The perfect combination of state-of-the-art technology and heart's blood for precision mechanics.

FACTS



Dimensions:	400 x 700 mm tool clamping area for moulding tools
Materials:	according to customer needs and capacities (REINER chooses the optimal material composition)



ASSEMBLIES AREA

The professional installation of a complete assembly on the component manufacturer's experienced assembly lines minimises the logistics effort. At the same time, the assembly quality is at its best. REINER provides all technical production steps "in house". A production depth starting with the plan sketch at need is a unique feature for REINER in assembly installation. Engineers with CAD stations in the in-house development centre are ready to develop tool plans and seamlessly transfer them to parts production.

ASSEMBLIES: Best quality at least logistics effort.

**Shaping your ideas precisely:
REINER. Everything from a single source.**

