

Precision turned parts for connection technology



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Who we are and what we do

The binder precision parts ag based in Grenchen (Switzerland) is an affiliated company of Franz Binder GmbH & Co. Elektrische Bauelemente KG (Neckarsulm).

We are a manufacturer of precision-turned parts for connector technology, and we set standards in this field thanks to our high-performance technologies. Our product range includes electroplated items, which we supply to customers upon request.

Relation to the binder group

binder is a family-owned company shaped by traditional values, employing around 2.000 people worldwide and is one of the leading specialists for circular connectors with its headquarters in Neckarsulm. The binder group includes the binder headquarters, nine international and globally active sales offices, seven production facilities, two system service providers and an innovation and technology centre.

binder produces a wide range of industrial connectors as well as mounting and cable connectors for automation technology. The strengths lie in the individual development, design and automated manufacturing of connectors based on customer specifications.





The product range of binder extends from subminiature connectors to multi-pin machine connectors. binder products are used in agricultural and construction machinery, signal equipment, machine tool construction, medical technology, measuring technology as well as sensor and automation technology.






Since 1960, binder has been synonymous with the highest quality.



PHOTO: FOTOTELEKOM

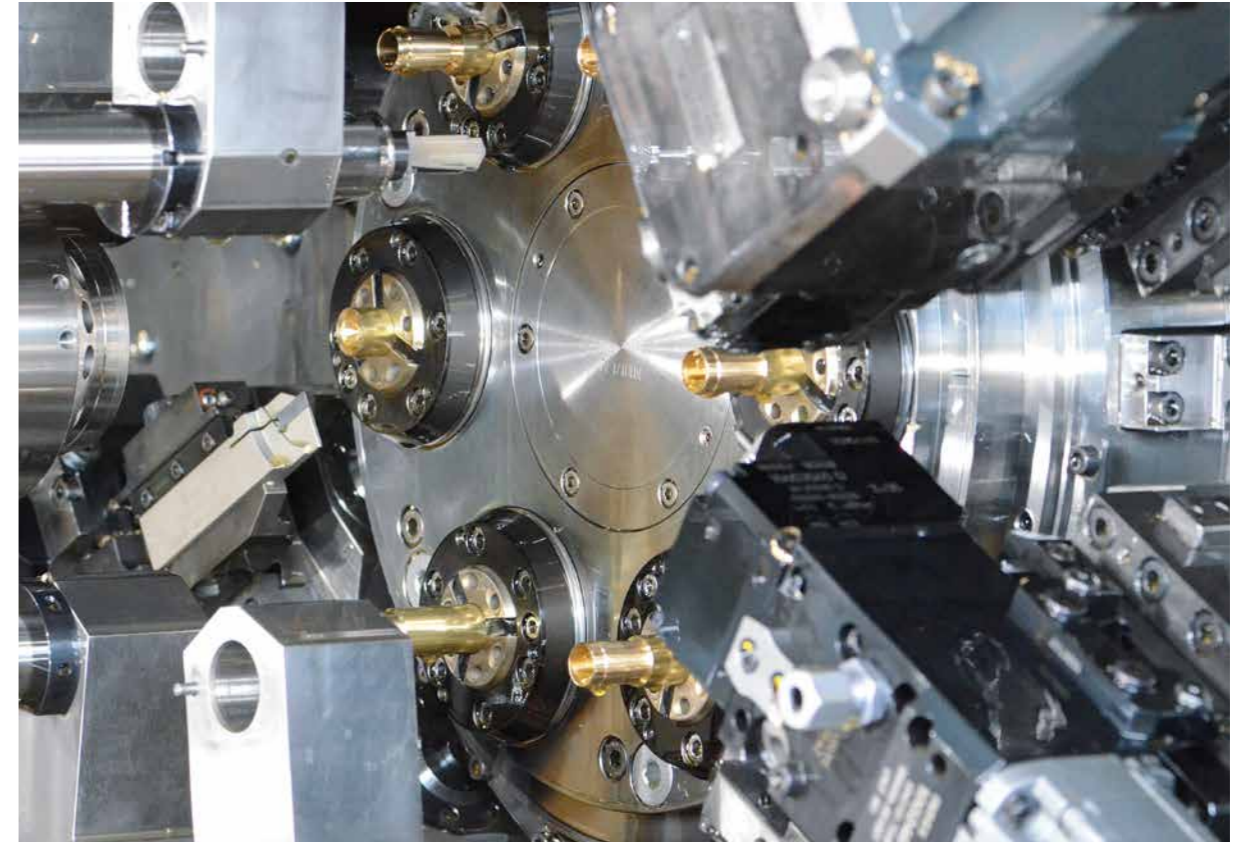
Core competencies of the binder group

	Cable manufacturing, assembly and production technology	since 1995 www.binder-cableassemblies.hu
	Production of electronic assemblies and systems	since 1995 www.binder-ems.de
	Electronics development and production of electronic assemblies	since 2020 www.binder-electronic-solutions.de
	Surface finishing	since 2019 www.binder-galvanicsurfaces.de
	Research and printed electronics	since 2016 www.binder-itz.de

	Production of electronic assemblies and systems	since 2017 www.binder-introbest.de
	Turned parts	since 1979 www.binder-precisionparts.ch
	Customer-specific system solutions	since 2013 www.binder-solutions.com
	Diecast parts	since 1995 www.macrocast.ch
	Stamped and stamped bent parts	since 1979 www.mpe-connector.de

Core competencies and particularities

- We produce ready-to-install precision turned parts for fastening technology and set standards with our high-performance technologies.
- We specialise in the production of ready-to-install, high-quality precision turned parts up to a diameter of 32 millimetres.
- We process wires, rods, tubes as well as standard and special profiles made of metal.



Precision turned parts for the industry

We specialise in the production of high quality, ready-to-install precision turned parts for industry. We process wires, rods, tubes and standard and special profiles in metal. Approximately 900 tonnes of raw material up to 32 millimetres in diameter are processed each year.

As a manufacturer of turned parts in the binder Group, which is one of the leading suppliers of circular connectors on the market, we have in-depth expertise in the manufacture of contacts, nuts, and housings for connection technology. binder products are used in various industries such as automation, measurement and control technology, medicine and the food industry.

We are certified according to ISO 9001 and ISO 14001.

■ Production

We are constantly investing in new, high performance production systems and are constantly expanding our machine park. Production systems from renowned manufacturers such as Tornos, Index, Citizen, Escomatic and Mikron are used. We work with the following technologies and systems:

- CNC sliding head lathes
- CNC multi-spindle automatic lathes
- Cam-controlled automatic lathes
- Rotary transfer machines

■ Heat and surface treatments

On customer request, you can obtain all turned parts from us with a heat and/or surface treatment. We work with selected partners and suppliers and can offer treatments such as hardening, annealing, nickel-plating, silver-plating, gold-plating, anodizing and the like.

■ Finishing

After machining, the turned parts are given the appropriate finishing treatment if required. Unwanted burrs that arise on the work pieces during the manufacturing process are removed in-house using various methods such as blasting, barrel finishing or manual fine deburring. The parts are then gently cleaned and degreased in a cleaning system down to the smallest hole.

■ Quality assurance

The entire production process is monitored by means of SPC (Statistical Process Control) and thus ensures high product quality right from the start. In addition, if required, we use flexible testing machines and offer 100% testing for defined features.

Turned parts

■ Brass turned parts

With over 700 tons per year, brass is the most frequently processed material at binder precision parts ag. Due to its good corrosion resistance, good conductivity and machinability, brass is particularly popular for connectors. Contacts as well as sleeves, flange sockets or hexagon nuts are made of brass. Of course, we also manufacture turned brass parts from lead-free alloys.

- Chemical composition: CuZnX (X = zinc content in percent)
- Alloy: copper and zinc
- Color: Golden yellow
- Density: approx. 8.4 g/cm³

Special features of brass turned parts

- Good electrical conductivity
- Corrosion resistant
- Non-magnetic
- Less susceptible to damage
- Robust
- Durable
- Cost effective
- Well suited for customised solutions



■ Aluminium turned parts

Aluminium is used when the turned part needs to be very light, corrosion-resistant and non-magnetic. The low specific weight is the main feature and the most popular material property. Aluminium is corrosion resistant and around three times lighter than brass, bronze or stainless steel. This is why it is frequently used in the aerospace industry and in mechanical and plant engineering.

- Chemical element: Al
- Element category: Metals
- Color: silver
- Density: approx. 2.7 g/cm³

Special features of turned parts made of aluminium

- Low weight
- Corrosion resistant
- Non-magnetic
- Good thermal conductivity
- High strength
- High fatigue strength and crack resistance
- Good formability and weldability
- Well suited for customised solutions



■ Stainless steel turned parts

Stainless steel is considered difficult to machine and therefore requires a great deal of experience and expertise during production. Turned parts made of stainless steel are often used in the food industry and in medical technology. Stainless steel is mechanically and thermally highly resilient, durable, hygienic and decorative.

- Alloy: Iron and chromium, nickel, molybdenum, or manganese
- Color: grey-silver
- Density: approx. 8.0 g/cm³

Special features of turned parts made of stainless steel

- Wear-resistant
- Corrosion and temperature resistant
- Hygienic
- High strength
- Excellent heat resistance
- Excellent corrosion resistance
- Superior impact resistance
- Self-protection
- Well suited for customised solutions



■ Bronze turned parts

Due to its versatile material properties, bronze is used in decorative elements as well as in various industrial applications. Bronze is corrosion-resistant, abrasion-resistant and offers good spring and sliding properties. Due to the low stress relaxation even at elevated temperatures, bronze contacts are also often used for connectors.

- Chemical composition: CuSn
- Alloy: Copper and tin
- Color: Red-brown
- Density: approx. 8.7 g/cm³

Special features of bronze turned parts

- High strength
- Corrosion resistant
- Non-magnetic
- Excellent wear and fatigue resistance
- Good sliding properties
- Conductivity slightly lower than that of brass parts
- Can be operated at higher temperatures



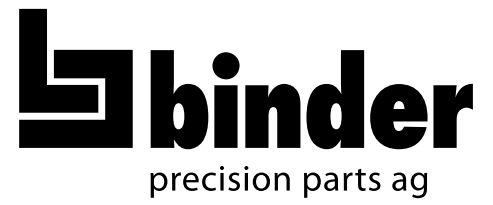




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binder precision parts stands for expertise in the field of ready-to-install precision turned parts for fastening technology.

Markus Binder
General Manager
of the binder group



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