



Linn PRÄZISION

Experts in
turned parts and fasteners

Linn Präzision –

We view this brand both as an incentive and a challenge

We are a well-established family-run company and have been a reliable business partner for more than 50 years. We supply precision turned parts ranging from prototypes to serial production.

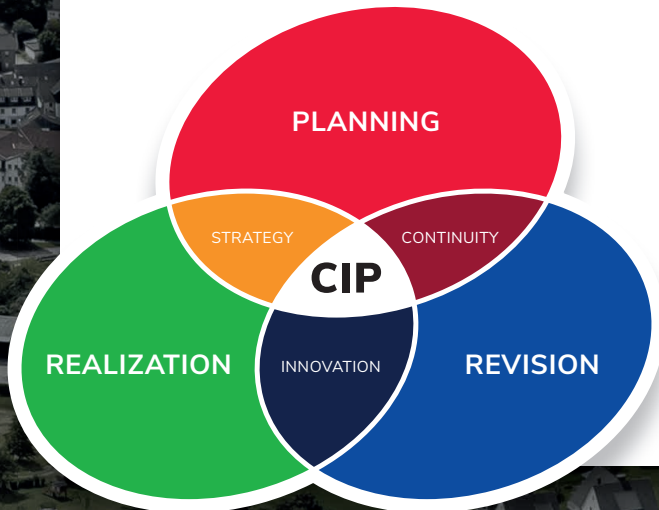
Linn Präzision follows its own strategic company philosophy closely on a daily basis. We strive for qualitative growth as we believe sustainable economic success is only achievable in accordance with the **“principles of the honorable businessperson”** – we want to stand out from our competition in a positive manner and thus be more successful in the long term.

Our lean organizational structure, harmonious working environment, the experience of all our team members and their creativity enable us to be extremely flexible and innovative in order to adapt our company to the constantly changing requirements on an ongoing basis.

Our specific goals are: cooperative partnerships with customers, suppliers and team members; excellence and reliability; and protection of the environment.

We are delighted with the positive reactions and ratings from our customers – these “Linn Ovations” are published on our homepage.

We use constructive criticism as a catalyst for continual improvement.





Turned parts

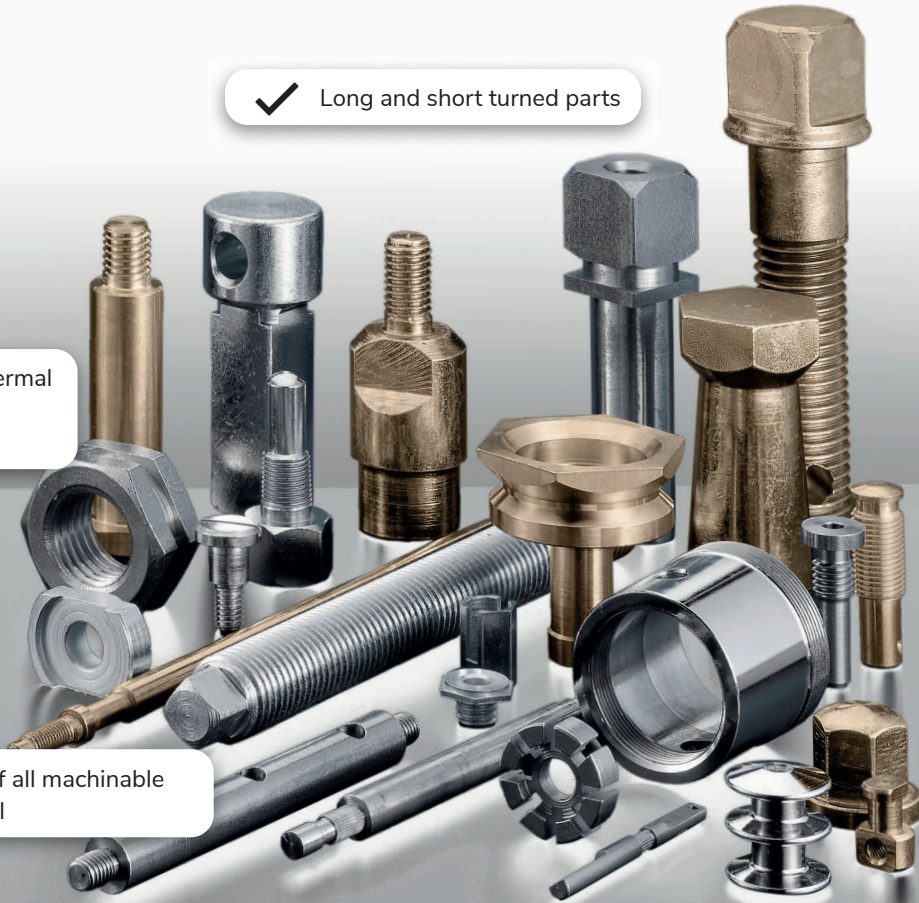
Precision turned parts according to customer specifications

✓ Long and short turned parts

✓ Refined with thermal or electroplated finishes

✓ Made of all machinable material

✓ Single-spindle and multi-spindle production of turned parts up to 65 mm in diameter under conventional control and 80 mm in diameter under CNC control



Cold formed parts

Efficiency and profitability are fundamental aspects of every new project that we look after our customers.



Cold formed parts or turned parts?

We are happy to advise our customers during the development phase, especially in regard to whether a turned part can be substituted by cold molding/cold formed parts.

In the process, we also analyze the accuracy of the dimensions and the form and submit alternative suggestions/offers that enable us to meet our own high standards and fulfill our customers' expectations and quality requirements over the long term without fail.

Cold formed blanks

It is also possible to achieve significant cost savings in the production area by using cold formed blanks with subsequent further processing and robot handling, which offers our customers noticeable benefits.

Another positive side effect is the improved mechanical properties achieved with a load-adapted grain, good surface quality and targeted use of the benefits of cold hardening.

LinnLights

Our highlights

Our industry thrives on tradition and innovation. Therefore, we are constantly on the lookout for ways to improve our products and processes. We adjust to new trends and technologies with our own in-house innovations. We also procure precision turned parts and cold formed parts for individual customer requirements.

We manufacture our tried-and-tested brands, LinnFix® and LinnOval®, cost-effectively from prototypes through to serial production. Thanks to our innovative production processes in connection with our 100% verification, we are able to combine narrow tolerances with homogeneous delivery quality.

We stock many types and dimensions of threaded bushings according to DIN 16903, which make them a particularly cost-effective option for our customers.

We develop solutions for individual testing and assembly work in-house. With our offer of 100% verification, you are always on the safe side – both with Linn's tried-and-tested and newly developed products.





LinnFix®

For added safety and easy assembly



LinnOval®

Oval bushings



DIN 16903

Threaded bushings

LinnFix®

For added safety and easy assembly



Decoupling elements such as screws and bushings are connected permanently with one another for safety reasons and to simplify assembly.

Small series are pre-assembled in part by hand, while large series are pre-assembled fully automatically.

LinnFix® is characterized by its high-precision design and sometimes extremely narrow tolerances.

LinnOval®

Oval bushings

LinnOval® is another consistent addition to and further development of our product range, which we have been continually expanding since 1965.

Through the precision manufacturing of turned, oval-shaped bushings, we are able to offer our customers solutions that provide tolerance compensation for complex plastic components.

Depending on customer needs, oval bushings are cold pressed, warm-implanted or injection-molded; we provide them with corresponding design recommendations. Thanks to this service of Linn Präzision, you benefit from the long-standing experience of our company in this area.

Our wide range of production capabilities also allows us to supply our customers with assembly parts right from the prototype stage.

Our manually operated inserting machines are capable of producing small-sized and medium-sized series cost-effectively, while large series in particular, which are produced by our fully automatic machines equipped with robots, round off our service profile cost-effectively.



Please notify us of your type of further processing and any other requirements so we can provide you with a quote that is optimally tailored to your needs.

We look forward to receiving your inquiries!

DIN 16903 threaded bushings

Particularly cost-effective due to in-stock standard bushings

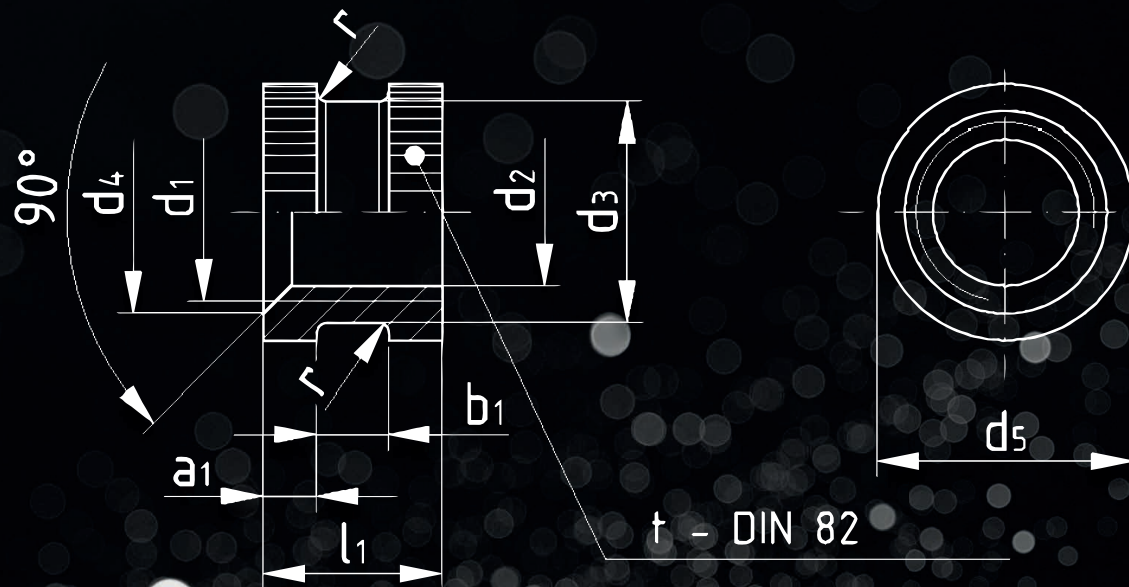
Threaded bushings (threaded sleeves, threaded inserts, insert nuts) are often required in the plastic and casting industries.

We work according to our customers' requirements and DIN 16903.

In many cases, our in-stock standard bushings that meet the DIN 16903 requirements can be used instead of individually constructed, expensive varieties.

Our customers benefit from our large stock of various types and dimensions, in particular at the product-sampling stage.







B. Eng.
Executive Director
Rainer Nettlenbusch



Linn Präzision Automotive Vertriebs GmbH

Individuality, flexibility, reliability, innovation and precision are the pillars of our automotive “world” – we live by them during our daily work in direct contact with our valuable customers!

Our customers are as unique as all the parts that they develop, manufacture and deliver for the automobile sector. We consider it a privilege and a daily challenge to have been a part of this specialty area for more than 50 years.

As changeable and as dynamic as business in the automotive field has become over the last few decades, we are proud to have maintained a customer satisfaction rating of 98% with regard to delivery performance. We present possible solutions with the necessary agility to fulfill our customers' requirements.

Reliability in a business partnership is just as important to our delivery partners as it is to us, which manifests in active, open communication on an equal footing. Our integrity and resolve

make us a reliable partner, and are highly regarded by our customers and suppliers alike.

We are proud to present the innovative strength of Linn Präzision Business Group in the form of our products, LinnOval® and LinnFix®.

We accept new customer projects with pleasure, and prepare customized offers with the utmost care and attention!

The key to achieving the desired level of precision during serial production is optimally selected manufacturing processes, together with reliable business processes.



Executive Director
Jürgen Gollnik



Linn PRÄZISION
Norm- u. Drehteile Vertriebs GmbH

Linn Präzision

Norm- u. Drehteile Vertriebs GmbH

For 20 years, sales specialist Linn Präzision Norm- und Drehteile Vertriebs GmbH has been supplying fasteners, with a core competence in the area of turned parts.

With a highly motivated team of six employees, it provides companies in the plastic processing, casting, screw wholesale, sanitary technology, hobby, garden and leisure industries and many more with reliable service.

Besides the high level of reliability, Linn customers appreciate the product quality, which is also maintained with a variety of automatic sorting equipment and manual sorting activities, so that the products supplied can be further processed completely automatically and without disruption.

The benefits of framework agreements are also adopted here due to the short access times when goods in the warehouse can be used.

One particular product specialty is the virtually seamless warehousing of brass threaded bushings DIN 16903, which are supplemented with standard dimensions from stock in steel and stainless steel.

Unsere Stärken:

- ✓ **High level of flexibility**
thanks to different manufacturing locations
- ✓ **Short delivery times**
thanks to comprehensive warehousing with framework agreements and DIN parts
- ✓ **Highly motivated team**
that fulfills our customers' requirements and needs
- ✓ **Lean organization**
with short decision-making paths



Executive Director
Rainer Croce



Linn PRÄZISION
Systemtechnik GmbH

Linn Präzision Systemtechnik GmbH

Linn Präzision Systemtechnik was founded in 2005 in response to our customers' increasing demand for ready-to-install, pre-assembled items or assembly groups. We offer delivery of these assembly groups or ready-to-use installation elements via our sales departments.

Moreover, we often integrate a customized testing system into the production process of the manufacturing chain to meet the customer's functional requirements in full.

Production capacities focusing on:

- ✓ Connecting or shaping different individual metal parts
- ✓ Mechanical processing or calibration of parts to reduce dimensional tolerances
- ✓ Manufacturing of oval bushings for pressing or injecting into plastic parts according to the customer's drawings
- ✓ Permanently connect screws and sleeves to facilitate assembly on the customer's side and to reduce disassembly and service faults
- ✓ Attaching protective caps to prevent mechanical damage to threads or for functionally relevant fittings
- ✓ O-ring assembly, module assembly, and much more.



Executive Director
Burkhard Freund



PRÄZISION
Linn
Service & Logistik GmbH

Linn Präzision Service & Logistik GmbH

Linn Präzision Service & Logistik GmbH is the administrative service company of the two sales organizations as well as Linn Präzision Systemtechnik GmbH. With a highly motivated team, Service & Logistik GmbH undertakes the administrative tasks of the other companies. Its focal areas include:

- ✓ Financial accounting with debtor and creditor management
- ✓ Controlling/auditing
- ✓ Complete merchandise management logistics
- ✓ Quality assurance
- ✓ In-house automatic and manual 100% verifications
- ✓ Personnel management
- ✓ General administration

Service und Logistik GmbH supports the other businesses in the Group. It coordinates and handles the numerous processes, ranging from receipt of goods to outgoing goods in close consultation with the other businesses.

This structure guarantees optimum, efficient handling of all tasks at all times.

Our strengths:

- ✓ **Reliable scheduling**
thanks to optimized order processing
- ✓ **Call orders with flexible delivery batches**
- ✓ **"Just-in-time" delivery**
thanks to state-of-the-art warehousing
- ✓ **If required, fixed quantities**
can be packaged by our state-of-the-art machines
- ✓ **Protection of the environment**
with reusable packaging (plastic boxes)
- ✓ **For other requirements, we recommend our tried-and-tested external providers**
among others in the areas of electroplating and hardening
- ✓ **Reliable transport partners**

100% verification

Despite using the latest machines and consistently following the zero-defect strategy, a small number of reject parts are unavoidable when manufacturing fasteners.

For example, an error rate of approx. 0.1–0.5 percent is possible when producing turned work pieces under optimum conditions.

This is an excellent production result, but it is not good enough for many of our customers.

The number of reject parts also increases due to the refining process. Foreign bodies or parts that are unintentionally mixed between the products during the electroplating/hardening process reduce the efficiency of our customers' production facilities because of machine breakdown.

Processed reject parts lead to costly complaints and negative performance evaluations from the end user.

Since 1991, we have been working towards finding a solution to this issue, which has resulted in the following for our customers:

- ✓ Reduction in error costs
- ✓ Increase in productivity
- ✓ Further processing with minimal errors

We use machines from a variety of industrial fields, including mechanics, opto-electronics, electro-pneumatics and camera technology, depending on the test task in question. We create special testing machines according to our customers' individual requirements.

The new generation of machines now also enables a reverse partial view with the latest camera technology. As a result, smaller tolerances can be checked and previously problematic features such as chamfers and threads are clearly visible – and at a remarkable speed of up to three units per second ...

... and we are continuing to develop this technology!

Linn's Service

- ✓ Family-run company with the typical benefits for our customers, such as an established, future-proof financial structure and sustainable customer service
- ✓ "Typical Germany", solid, strong and established presence on the market, delivery of "finished goods" and a "one-hundred percent satisfaction package"
- ✓ All items available in medium and large quantities in a wide variety of materials
- ✓ Call orders with flexible delivery batches
- ✓ Reliable scheduling thanks to optimized order processing
- ✓ "Just-in-time" delivery thanks to state-of-the-art warehousing
- ✓ Series measurements are documented on request by the customer
- ✓ In-house automatic and manual 100% verifications
- ✓ State-of-the-art measuring machines, which enables us to take high precision measurements for contours of all type and levels of roughness
- ✓ Protection of the environment with reusable packaging (plastic boxes)
- ✓ If required, fixed quantities can be packaged by machines
- ✓ Technical cleanliness and prevention of contamination with cleaning system, with subsequent vacuum packaging on request
- ✓ For further requirements, we recommend our tried-and-tested external service providers, among others in the areas of electroplating and hardening
- ✓ Reliable transport partners

Customer evaluation

Our company carries out a customer survey every 3 years, in addition to the optional supplier evaluations provided by our customers, so that we are able to monitor our customers' overall

satisfaction with our service. The results of both independent evaluations are presented in the following tables.

Overall evaluation of the customer surveys and evaluations since 2001

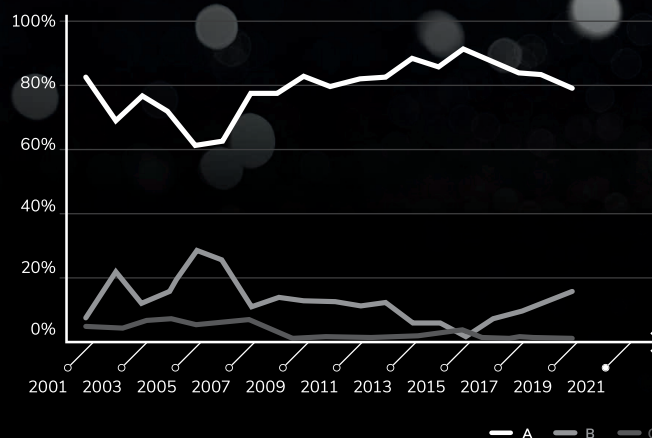
Customer surveys from 2001 to the present

Characteristic	Ø mark
Product quality	1,6
Price setting	2,6
Delivery time	2,5
Postage	1,7
Packaging	1,7
Keeping promises	1,8
Technical advice	1,7
Availability	1,6
Processing of complaints	1,9
Staff competence	1,6
Service in urgent cases	1,8
Financial credibility/credit rating	1,9
Environmental responsibility	1,7

Overall average grade 1,8

Customer evaluation from 2001 to the present

	%
A	83,9
B	13,3
C	2,8



The customers interviewed represent up to 90% of our total sales.

Our services were rated on a scale from 1–6, ranging from “1 = very good” to “6 = unsatisfactory”!

Certifications





Linn Präzision Unternehmensgruppe

Zum Ernhof 5
58809 Neuenrade | Germany



+49 23 94 / 91 87 - 0



+49 23 94 / 91 87-26



info@linn-praezision.de

www.linn-praezision.de

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