

Xi-Plus-technology
for best running features.
Precision Ball Screws 16-80 mm.

Benefits:

- Smooth operation
- Reduced noise
- Less vibration
- Improved efficiency

Applications:

- Machining Centers



Xi-Plus-technology –

Optimized spindle surfaces for best running features.

At Steinmeyer you obtain ball screws with connecting dimensions according to DIN 690651 or ISO 3408.

Any size can be selected among available nut flange shapes (round, single, flattened, flattened on both sides) and different load capacities.

And now you have the option to receive Steinmeyer ball screws in Xi-Plus technology with optimized spindle surfaces for better running features.

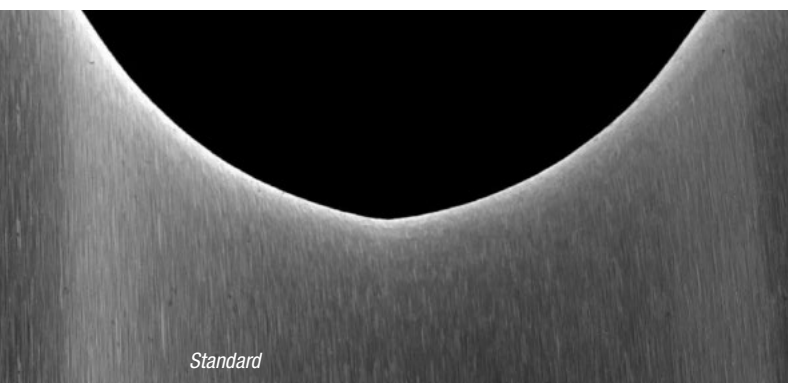
Standard Ball Screws:

Microscopic irregularities on the raceway surface of the spindle can cause vibrations, irregular running characteristics, and noise in machines.

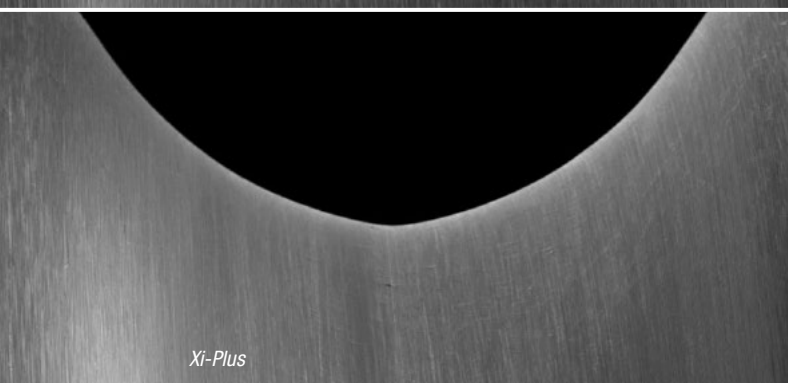
Advantages compared to standard ball screws:

Through the use of innovative production technologies, the roughness of the spindle surface can be reduced and therefore performance is optimized. Irregular running characteristics are virtually eliminated.

Xi-Plus ball screws deliver excellent qualities.

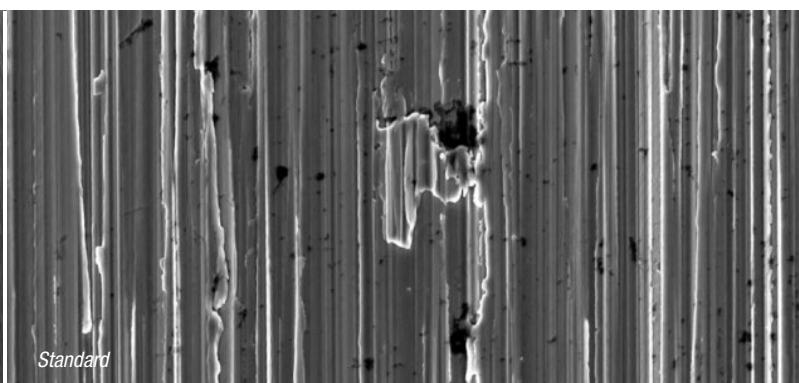


Standard

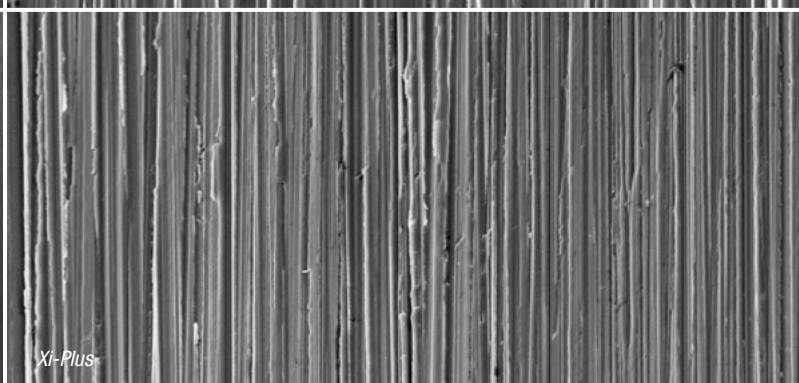


Xi-Plus

*Surface - SEM image
(scanning electron micrograph)
50-fold magnification.*



Standard



Xi-Plus

*Surface - SEM image
(scanning electron micrograph)
1000-fold magnification.*

Quiet and measurably smoother.

These improvements result in smoother operation and lower noise levels when installed in the machine.

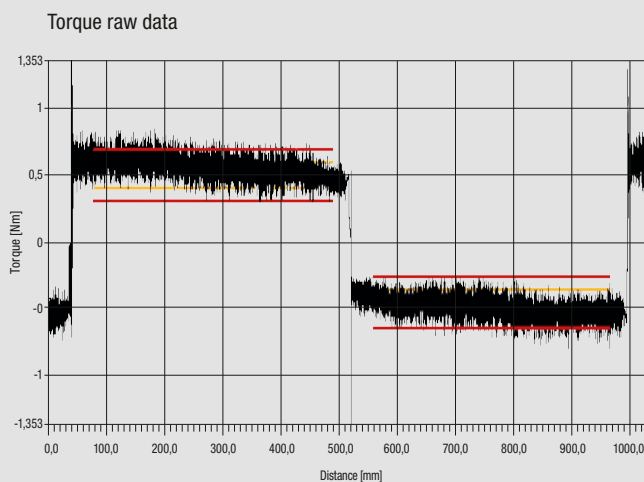
Steinmeyer Xi-Plus ball screws have distinct advantages over standard ball screws, most notably a significant improvement in smoothness, which can be recognized based on the bandwidth of the idle torque signal.

Your benefits with Xi-Plus:

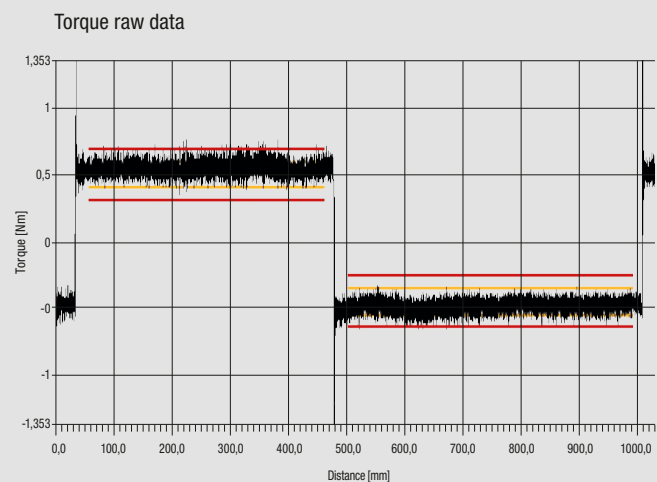
- Smooth operation
- Reduced noise
- Less vibration
- Improved efficiency

Proven reduction of torque variation.

Through studies on in-house test benches, a reduction in torque variation of up to 40% can be demonstrated. We have also documented significant improvement in running characteristics.



Standard



Xi-Plus

Significant reduction in bandwidth by up to 40% shows the comparison of the torque measurement.

Order our
Xi-Plus technology
today.
Please specify your request.
Contact us
for a quote.

*The Xi-Plus-Technology is available for Positioning Ball Screws (with P-tolerance) with nominal diameter to 80 mm including.



It just keeps getting better and better.

Other advantages:

The Xi-Plus-Technology offers a considerable advantage in drive technology with low noise generation in the built-in state in the machine. By FFT analysis (Fast Fourier Transformation) of this signal, improvements in the noise of ball screws can be shown. The results shows, that the frequency which leads to most noise developments is completely removed.

Feel free to contact us.

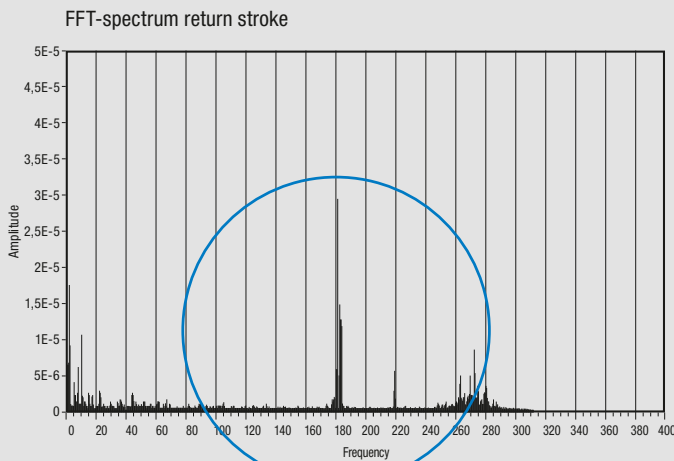
Ball Screw Assemblies for mechanical engineering with the spindle shaft are only available according to customer drawings. For a quote we need a drawing of a sufficiently well-defined spindle shaft. A standard nut can be supplied or designed according to your requirements.

We will gladly give you a quote on price and delivery information. Please provide simply a drawing or a sketch.

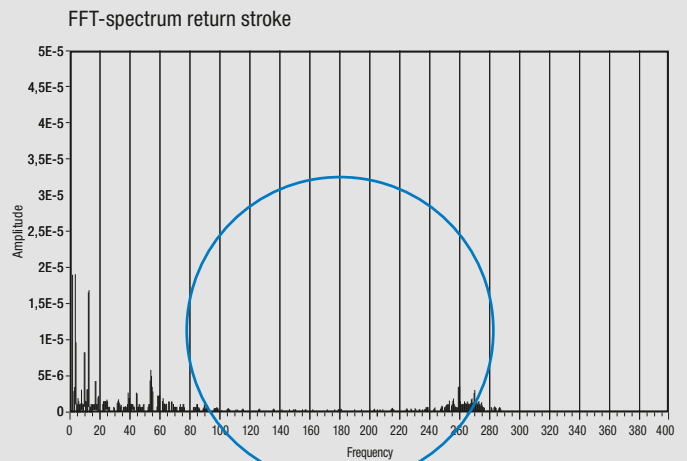
Contact:

Phone: **+49 (0) 7431 1288-0**

E-mail: **info@steinmeyer.com**



Standard



Xi-Plus

Noise measurement comparison.

Frequencies leading to noise can be completely eliminated.

HIGH ETA⁺-technology – PERFORMANCE

Proven technology.

Combine Xi-Plus and ETA+.

The spindle technology Xi-Plus can be combined with the proven ETA + -nut technology.

The two techniques together provide the best low-friction running characteristics for an improved life of your ball screw and your machine.

The ETA+-technique.

Nuts of ETA+ ball screws are often shorter than conventional double nuts, have lower friction, and have improved durability with excellent rigidity.

Due to the great success of ETA+, some sizes are no longer produced in conventional designs.

For further information, visit our website at:

www.steinmeyer.com

or ask us personally about the possibilities.

Phone: **+49 (0) 7431 1288-0**



Modern production technologies at Steinmeyer.



Applications: Machining Centers.

Welcome to where precision is.

Steinmeyer – Your reliable partner for Ball Screws.

Ball screws in all sorts of designs.

Fulfilling your exact design requirements is our main focus. The expertise of our engineers combined with high standards enables us to provide custom ball screw solutions for your application.

Precision and quality.

Innovation, precision, quality, reliability, and durability have distinguished our ball screws for decades. We use sophisticated manufacturing technology and hand-select only first-class materials.

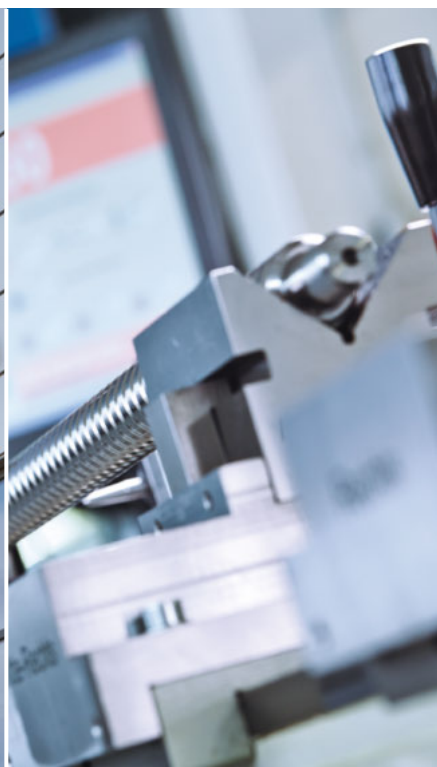
Reliable customer service.

Steinmeyer has reliable customer service representatives available at your disposal, before and after your purchase – whether it's for a comprehensive initial consultation or for a quick and simple repair after purchase.

Contact:

Phone: **+49 (0) 7431 1288-0**

E-mail: **info@steinmeyer.com**



Our aim is to find the right solution for you.

www.steinmeyer.com

High precision ball screw assemblies of 3 mm to 160 mm.

Ball screw assemblies are the central element of linear drives for general machinery and devices. We are a worldwide leader in ball screw assembly innovation for applications within mechatronics, optics, and aerospace.

Certified processes.

We provide high precision products through our high quality standards. Our processes are certified under quality management systems.





Our product range:

- Miniature Ball Screws 3 - 16 mm
- Large Ball Screws 16 - 125 mm
- Ultra Thrust Ball Screws 32 - 160 mm
- Aerospace Ball Screws
- Rotating Nuts
- Precision Lead Screws

With more than 460 employees, Steinmeyer is the leading competence center in Europe in the fully integrated manufacturing of ball screws.

August Steinmeyer GmbH & Co. KG

Riedstraße 7
72458 Albstadt
Germany

Phone +49 (0) 7431 1288-0
Fax +49 (0) 7431 1288-89

E-mail info@steinmeyer.com
Internet www.steinmeyer.com

