HIWIN®

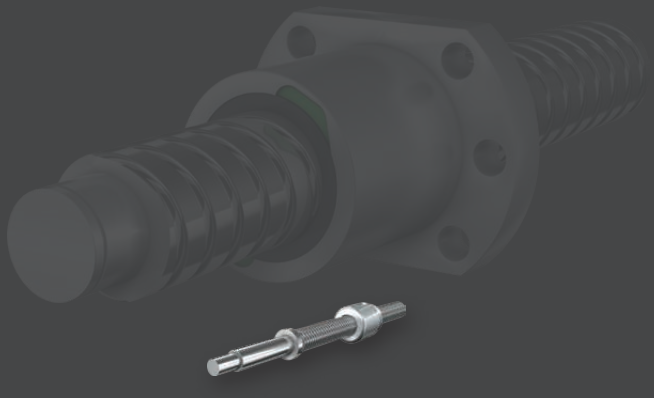
MINIATURE BALLSCREWS

FOR APPLICATIONS WHERE EVERY MILLIMETRE COUNTS.



SMALL IN SIZE, POWERFUL IN **PERFORMANCE**

Our miniature ballscrews combine maximum precision, smooth running and load-bearing capacity within a minimal installation space. The integrated total recirculation ensures smooth, long-lasting operation. From a diameter of 4 mm onwards, a wide range of options are available for customised configurations.



Your advantages:

- Compact design, ideal for applications with limited installation space.
- High load capacity, despite its small dimensions.
- Smooth and efficient with low frictional resistance
- You decide the design of your mini ballscrew – maximum customisation is possible for diameters up to 12 mm.

An overview of load ratings:

Static load capacity C_0 [kN]:

618 N to 12,000 N

Dynamic load capacity C_{dyn} [kN]:

481 N to 6,900 N

NUT AND SPINDLE VARIANTS

FOR EVERY DESIGN REQUIREMENT

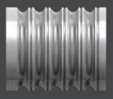
The drive element covers a diameter range from Ø 4 to 12 mm and allows for a wide variety of combinations of different nut shapes and spindle variants. Many sizes are available in rolled and ground types, enabling each application to have the optimal size in terms of accuracy and load-bearing capacity.

Types of nuts:

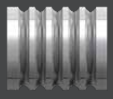
Flange nuts	They enable a stable, flat mounting and distribute any radial or axial forces optimally.
Cylindrical nuts	They impress with their compact, space-saving design and are therefore ideal for use in housings or boreholes.
Custom-made nuts	We develop solutions for applications with complex geometries or specialised mounting interfaces and tailor them precisely to the specific requirements.

Types of spindles:

Rolled type



Ground type



Accuracy classes

T5–T10

P0–P5

Manufacturing material

Made from sturdy carbon steel as standard. Available in stainless steel on request.

End machining

Customised end machining ensures seamless integration into your application.

SMALL ACTIONS,
MAKING A BIG DIFFERENCE

Miniature ballscrews really come into their own wherever precise and reliable movements in confined spaces are the ideal application for miniature ballscrews. They enable extremely fine positioning, stable operations with high repeatability. Additionally they ensure that compact systems function accurately even under demanding conditions.
This makes them the key drive component for applications in which high-precision micro-movements play a decisive role in overall performance.



Medical and laboratory technology



Surgical robots



Humanoid robotics



Measurement and calibration systems



Aerospace

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