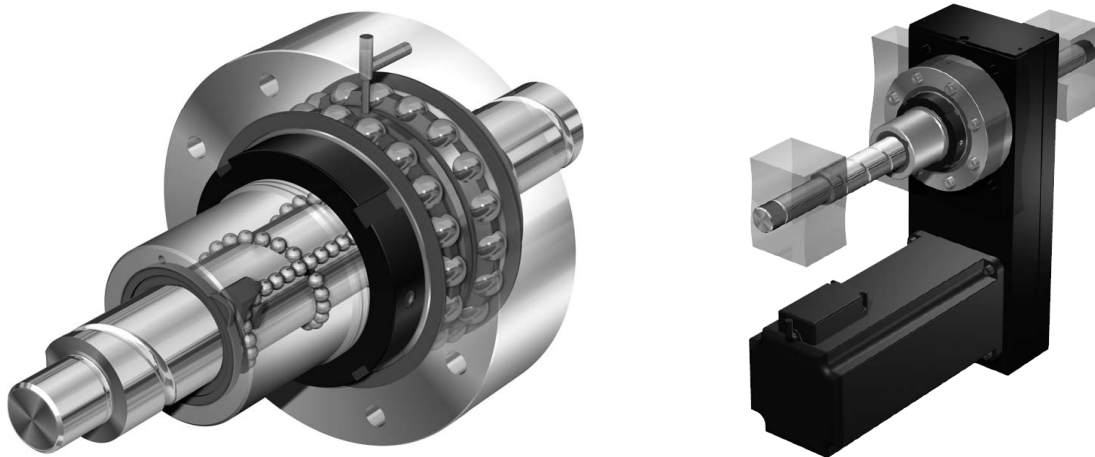


Overview / Allocation of the selectable BSA nuts to the product data bases

1.) Ball Screw Assembly (Standard nuts including miniature, eLINE and Drive Unit AOK)



2.) Drive Unit FAR (driven BSA-nuts)



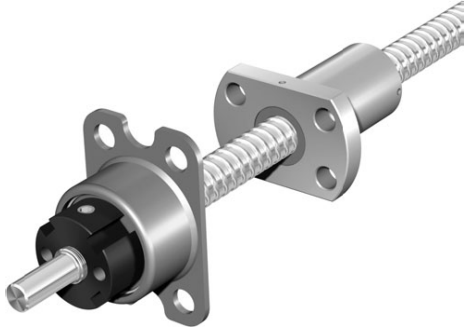
3.) Drive Unit AGK (BSA-nuts of this Drive Unit)



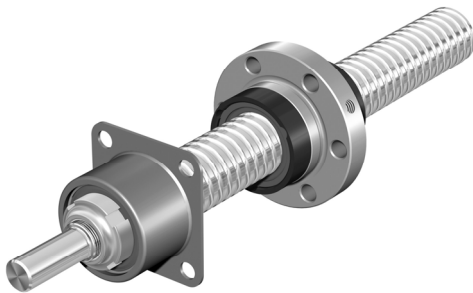
1.) Ball Screw Assembly (Standard nuts including miniature, eLINE and Drive Unit AOK)

All standard nuts are completely contained in this product data base of the calculation programme. This means, that the nut types of following special catalogues are contained as well. :

- **Miniature Ball Screw Assemblies:** Complete Ball Screw Assemblies up to a screw diameter of $d_0 = 12$ mm for miniature applications.



- **eLINE Ball Screw Assemblies:** Particularly low priced Ball Screw Assemblies, the performance data of this BSA is almost equal to that of the high-end components.



- **Drive Unit AOK:** Large system approach for the Ball Screw Assembly, which is freely selectable with the following drive components:
 - Motor mount and coupling, with motor attached.
 - Pre-assembled timing belt side drive with selectable gear ratios, with motor attached.
 - Maintenance-free digital AC servo drives with integrated brake and attached feedback.



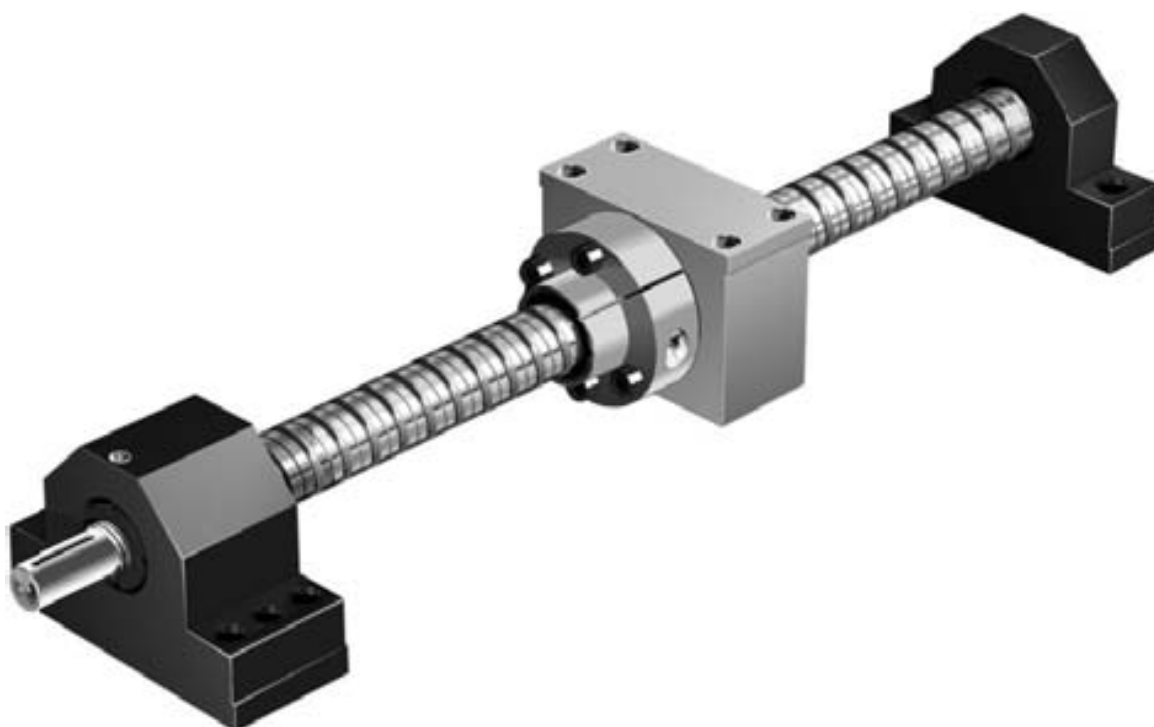
Rexroth Standard Ball Screw Assemblies



Advantages of Rexroth BSA-solutions:

- Smooth operation due to the design of the internal recirculation and optimal lift-off of balls from the raceway.
- High load rating due to large number of balls.
- Short nut length.
- No protruding parts, nut is easily mounted.
- Smooth outer shell.
- Effective, wiping sealing.
- Large range of series available ex stock.
- Adjustable-preload single nut.

Rexroth Precision Ball Screw Assemblies are available with **steel or aluminum pillow block units** or **bearing units** complete with **matching slotted nuts**.



2.) Drive Unit FAR

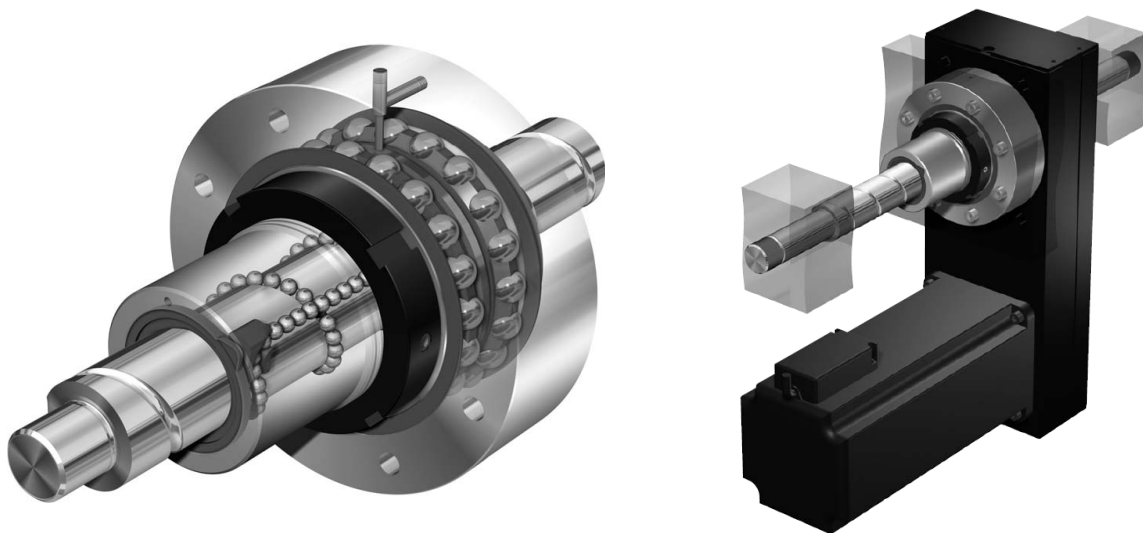
This section contains a complete range of driven nuts. These products answer customers wishes for a ready-made solution. The large choice of sizes and screw leads caters for all desired linear speeds and loads. This eliminates the need of complex customer-built constructions.

- A single ball nut.
- A two-row angular contact ball bearing with integrated mounting holes and lube port.
- A slotted nut.

The matching timing belt side drive can be supplied along with the assembly, if required. Suitable AC servo motors and drive controllers are also shown.

User benefits:

- Economy through the use of a complete unit consisting of a ball screw, an AC servo motor and a timing belt side drive.
- Adaptation to various speeds and loads by means of the screw lead and belt reduction.
- Various power classes by using different motor versions.
- Low space requirement due to compact design.
- Minimal mounting effort by the customer and integral functionality.
- Low system costs.
- High positioning accuracy.
- Can be combined with a rail-integrated measuring system (Catalog R310EN 2350) for direct travel measurement in applications with particularly demanding positioning requirements.



3.) Drive unit AGK

The AGK drive unit is additionally provided with an enclosure and sealing strip. Optional travelling screw supports allow maximum speeds even over long strokes. These readily available AGK drive units offer users the opportunity to rapidly integrate economical drive solutions with minimal design and manufacturing effort. Maximum linear speed, protection from environmental influences and reliable operation are all optimally combined into one unit.

When paired with Rexroth linear guides, they offer machine designers full design freedom for every application.

Advantages:

- Optimal sealing with steel or polyurethane sealing strip.
- Travelling screw supports for maximum linear speeds in horizontal operation.
- Optimal travel performance, high load ratings, high positioning and repeatability accuracy due to preloaded Rexroth precision ball nuts for demanding positioning applications.
- Rapid mounting and easy alignment of the drive unit due to the machined reference edge on the pillow block unit.
- High linear speeds thanks to double floating bearing.
- Overall length of the AGK drive unit is freely selectable (no fixed length increments).
- Easy motor attachment via locating feature and fastening threads.

Structural design:

- Rexroth Precision Ball Screw Assembly with screws of various tolerance grades and cylindrical single nut, also available with zero backlash or preloaded.
- Variable number of optional screw supports, to increase the maximum linear speed even with long strokes (critical speed).
- Steel or polyurethane sealing strip combined with aluminium extrusion profile encapsulation.
- Ball nut enclosure made of aluminium extrusion profile finished on all sides with reference edges on both sides.
- Pillow block units made of robust extruded aluminium profile with reference edges on both sides and mounting holes as well as locating feature for motor mounting.

Choice of drive elements:

- Motor mount and coupling, with motor attached.
- Pre-assembled timing belt side drive with selectable gear ratios, with motor attached.
- Maintenance-free digital AC servo drives with integrated brake and attached feedback.

