



# **BEARINX<sup>®</sup>-online Easy Ballscrew**

## Online calculation for screw drive bearing supports



## BEARINX<sup>®</sup> - online Easy Ballscrew

### High-performance calculation software...



Along with developing and manufacturing top-quality precision parts, great service is an important tradition at Schaeffler. Rolling bearing design is one of the focal points of our design support. We want to give you a competitive edge by supplying you with perfectly designed products. We have already been using calculation programs successfully for 50 years to meet these requirements.

### BEARINX<sup>®</sup> – a leading program

BEARINX<sup>®</sup> enables users to calculate, display, and document specific bearing loads in detail while taking operating and environmental conditions into consideration – even for complex machine systems. The contact pressure on every single rolling element is considered in the calculation.

### The "Easy Series" for online customers

The BEARINX<sup>®</sup>-online Easy Ballscrew module means you can now calculate screw drive bearing supports simply and quickly with Schaeffler products. The calculation program is available exclusively online and can be used free of charge.

### ... with self-explanatory menu navigation

#### Intuitive user interface

The program provides four conventional bearing arrangements for screw drives (Figure 1) as preconfigured calculation models:

- Locating bearing support on one side
- Locating non-locating bearing support
- Locating locating bearing support (spindle tension with locknut)
- Locating locating bearing support (spindle tension with shim)

The self-explanatory menu navigation enables users to enter data such as spindle geometry, bearing selection, lubrication and load case data quickly and easily. The geometric data of INA and FAG rolling bearings is easily loaded from an integrated database. Users can then enter the operating conditions as a load spectrum in a clearly-laid out table (Figure 2).

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#### Data exchange

All input data can be saved locally. This enables any relevant changes to an existing design, such as adjustments to the size or comparative calculations, to be made quickly without having to enter the data twice. In addition, users can send their saved files to our Engineering Service so that results can be verified and examined in more detail using the full version of BEARINX<sup>®</sup>.

#### **Calculation and documentation**

Calculations are carried out on powerful calculation servers at Schaeffler Technologies AG & Co. KG. The adjusted reference life and the minimum static load safety factor is displayed for all bearing arrangements. For locating locating bearing supports, the system also outputs the tensioning force of the spindle and the effective spindle elongation due to tensioning (Figure 3).

In addition, the input data and the calculation results are documented in a PDF file (see figure below).



① Simple selection: The four pre-configured calculation models



② The speed load spectrum is entered in a user-friendly table



③ Result window: The most important results at a glance

### Registration: BEARINX<sup>®</sup>-online Easy Ballscrew



The calculation program BEARINX<sup>®</sup>-online Easy Ballscrew is available online only and can be used free of charge. After initial registration, which takes very little time, you can start your calculation immediately.

http://bearinx-online-easy-ballscrew.schaeffler.com

### Schaeffler Technologies AG & Co. KG

91072 Herzogenaurach Germany E-Mail bearinx-online@de.ina.com Phone +49 9132 82-7575 Fax +49 9132 82-3344 Internet www.ina.de · www.fag.de Every care has been taken to ensure the correctness of the information contained in this publication but no liability can be accepted for any errors or omissions. We reserve the right to make technical changes.

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