

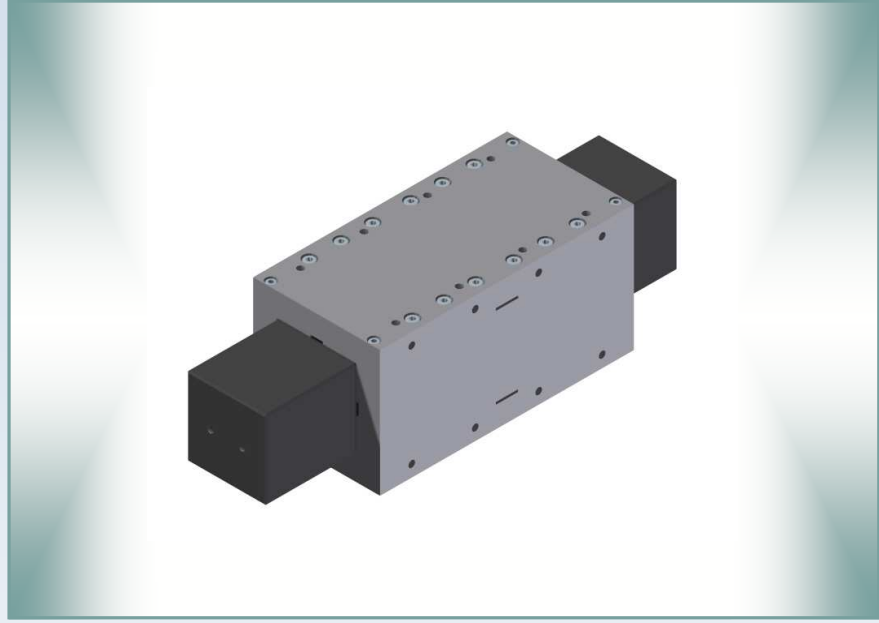
Customer focused development

- spindles + slides
- plan-tables + instruments
- machines
- micro cutting technology



Linear bearings model series LFG

- Universal area
- High load bearing capacity
- Small deviation
- Spezial drives
- With integrated rotation axes, if required
- Available in a variety of sizes



Precise linear bearings in a wide variety of designs!

With its LFG linear bearings model series, ess Mikromechnik GmbH has a multifaceted range on offer.

A wide variety of geometries and materials are possible with impressively small deviations.

ess Mikromechnik GmbH boasts a tradition of outstanding achievement. Therefore these bearings are produced based on the most up-to-date findings in the micro-machining technology sector.

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Technical data

Linear bearing
LFG 0404 / 0505 / 0804 /
0805 / 0808 / 1010 /
1212 / 1515
ess Mikromechanik GmbH

Measuring length
Load bearing capacity
Positioning accuracy
Drive

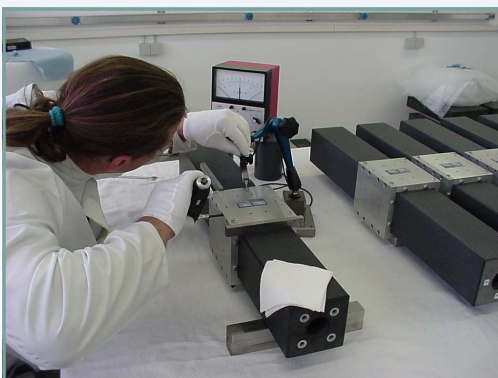
up to 1000mm
 from 10 N to 20.000 N
 up to 0,1µm
 with stepper motor, DC motor
 or spindle drive

Control system
Measuring bearing
Operating pressure
Working temperature
Storage temperature

up to 5 axes
 air bearing
 max. 5 bar
 15 till 35°C
 2 till 40°C

Modell versions

Basic unit LFG	0404	0505	0804	0805	0808	1010	1212	1515
<i>Deviation</i>								
for movement path max.								
Yx	0,3 µm	0,3µm	0,3µm	0,3µm	0,3µm	0,3µm	0,3µm	0,3 µm
Yz	0,3µm	0,3µm	0,3µm	0,3µm	0,3 µm	0,3 µm	0,3 µm	0,3 µm
for movement path 100mm								
Yx	0,2µm	0,2µm	0,2µm	0,2µm	0,2µm	0,2µm	0,2µm	0,2µm
Yz	0,2µm	0,2µm	0,2µm	0,2µm	0,2µm	0,2µm	0,2µm	0,2µm



Linear bearings from the LFG model series are produced by ess in a variety of geometries and materials. The bearings are manufactured in accordance with the most up-to-date findings in the micro-machining technology sector and therefore guarantee extremely small dimension deviations during the production process.

The bearings can be fitted with simple, mechanical drives through to high-resolution electronically-controlled special drives.

On request, we can produce bearings in which rotary axes from the various different model series are integrated.

Multi-purpose linear bearings
with extremely small deviations!