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 Mikromechanik GmbH has a multifaceted range on offer.

A wide variety of geometries and materials are possible with impressively small deviations. ess Mikromechanik GmbH boasts a tradition of outstanding achievement. Therefore these bearings are produced based on the most upto-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**

Control system Measuring bearing Operating pressure Working temperature Storage temperature

up to 1000mm from 10 N to 20.000 N up to 0,1µm with stepper motor, DC motor or spindle drive 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
Devation								
for movement path max. Yx Yz	0,3 μm 0,3μm	0,3µm 0,3µm	0,3µm 0,3µm	0,3µm 0,3µm	0,3μm 0,3 μm	0,3μm 0,3 μm	0,3μm 0,3 μm	0,3 μm 0,3 μm
for movement path 100mm Yx Yz	0,2μm 0,2μm	0,2μm 0,2μm	0,2μm 0,2μm	0,2μm 0,2μm	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 The bearings can be fitted with the most up-to-date find- with simple, mechanical ings in the micro-machining drives through to hightechnology sector and therefore resolution electronicallyguarantee extremely small dimension deviations during the production process.

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 extremly small deviations!