

Customer focused development

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



Rotary bearings model series KAL

Performance features

- Universal area of application for radial and planess accuracies
- High load bearing capacity
- Good emergency running characteristics
- Available in a variety of sizes



Heavy-duty air bearing with a virtually unlimited service life!

The versatile, spherical bearing from the KAL model series by ess Mikromechnik GmbH has an ideal price/ performance ratio.

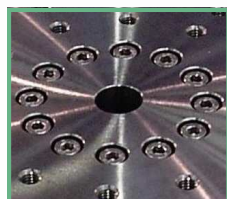
The bearing meets the most stringent requirements with respect to radial and lateral run-out accuracy as well as service life.

ess Mikromechnik GmbH boasts a tradition of outstanding achievement. Therefore this bearing has been continually developed over many years to achieve its present tried-and-tested, highly-developed version.

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Technical data

Spherical bearing
**KAL 050/075/100/
130/150/200/300**
ess Mikromechanik GmbH

Measuring range
Measuring bearing
Operating pressure
Working temperature
Storage temperature

360°
air bearing
Max. 5 bar
15 till 35°C
2 till 40°

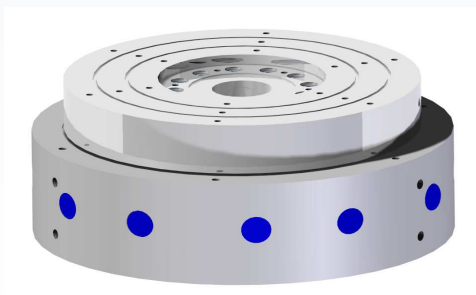
Model versions

Basic unit KAL	050	075	100	130	150	200	300
Radial run-out accuracy	0,05 µm	0,05 µm	0,05 µm	0,05 µm	0,05 µm	0,08 µm	0,08 µm
Planess accuracy	0,03 µm	0,03 µm	0,03 µm	0,03 µm	0,03 µm	0,03 µm	0,03 µm
Wobble error	1,5 µrad	1,5 µrad	1,5 µrad	1,5 µrad	1,5 µrad	2,9 µrad	2,9 µrad

The bearings in the KAL model series provide the user with a well-developed product family which has been tried-and-tested over a number of years. The main area of application is wherever radial and lateral run-out accuracy are subject to the most stringent requirements.

These bearings also feature a high load bearing capacity and, due to their good emergency running characteristics, they have a virtually unlimited service life.

Because of the large range of applications of these bearings, numerous bearing geometries are available. In addition to the standard dimensions, the geometries also include special sizes which cover almost all possible requirements.



Heavy-duty rotary bearings

with excellent degrees of accuracy!