



V-bearing



IKL Bearings general information

About IKL Bearings

IKL was founded in 1948 by the government of Yugoslavia (SFRY) as a state producer of bearings. The factory became one of the leading manufacturers of bearings in East Europe till the breakup of Yugoslavia.

Since 2008 the restructurization process has started and IKL was bought. To save the technological and HR potential the production line was transferred to **BULGARIA (Plovdiv)** and **INDIA (Hayderabad state and Bangalor)**.

In 2010 the next companies were established under IKL name due to the development of the IKL:

IKL Global FZE (UAE) – hub for supply of IKL Brand bearings

IKL Innovations (BELARUS) – as research and development center for bearings and particular insulated bearings and vibrating screen bearings

IKL Bearings INDIA Pvt Ltd – for marketing of IKL bearings In India and further manufacturing hub for vibrating screen bearings in India

BTH/IKL (BULGARIA)– Laboratory testing center approved by European Union for quality tests of bearings and Trade House operating in European region



We work only with the best suppliers of materials/components that were audited by our specialists and has the highest standarts in production line and transportation. We are happy to share our experience and knowledge about our quality products with our customers. The advantages of IKL Bearings are increased reliability and favorable price.

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IKL Products and know-how

About IKL Bearings

We offer next types of bearings:

Spherical Roller Thrust bearings / Spherical Roller bearings Double Row / Insulated bearings / Vibrating screen bearings with **IKL Vheavy®** cage



This is more detailed information about Vibrating screen bearings with IKL Vheavy® cage:

Vibrating Screen Bearings IKL VHeavy® cage

Vibrating screens, also known as shaker screens, are used to separate bulk materials in a mixture of different sized particles such as: sand, gravel, river rock and crushed rock, and other aggregates that often separated by size using vibrating screens



The machines due to constant acceleration and impact from material on the surface require bearings with extra capacity and robust cages. Extremely high loads cause deflection of the shafts and housings so the bearings must accommodate misalignment in operation.

Bearings are using with a high speeds and highly contaminated conditions so the bearings must operate smoothly and have minimal friction even in harsh conditions.

These bearings are used in the machinery for mining, construction, aggregate, asphalt recycling, steel manufacturing, and general industrial equipment where heavy loads, vibration, and impact loads are common.

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IKL bearings 223xxW33MAC3 (C4) had patented technology Vheavy® engineered for Heavy duty bearings used for vibrating screens EU pat.N002778001-0001. The bearings produced with our technology were tested in extremely severe conditions in India in recent years, and showed bearing life extension up to 40% comparing with non-patented, traditional cage design.

Features of IKL Vheavy® bearings

Asymmetrical roller design

- Reduced sliding friction
- Less tendency for roller to skew during operation
- Fewer internal forces in bearing

Forged inner and outer rings

- Uniform steel grain structure
- Improved fatigue life

Open end cage design

- Simple and precise assembly
- Facilitates lubrication

Two-piece machined bronze retainer

- Allows differential speed between roller sets reducing retainer stresses

Inner and outer ring special heat treatment

- Improved fatigue life

Outer ring guided

- ! Higher operating speeds
- ! Improved lubrication of guiding surface



We recommend use IKL Vheavy® bearings to make the machinery exploitation more effective and secure.

All information you can find on our official site <http://iklbearings.com>