



X-life

The best in bearing technology

Introducing the new premium quality standard for bearings... brought to market by the combined “Partner Power” of INA FAG



INA and FAG have combined their innovative bearing capabilities to create a unique dimension in bearing quality.

Branded X-life, this new premium quality standard represents improvements in product design, product performance and service life that far exceed current standard values and expectations.

All products belonging to the X-life portfolio feature enhanced characteristics including:

- ▣ Increased load-carrying capacity
- ▣ High rigidity
- ▣ Lower operating temperatures
- ▣ Reduced noise levels
- ▣ Easier maintenance

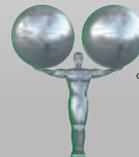
To achieve X-life quality, INA and FAG have developed special materials including steels, new lubricants, new machining methods and improved production processes, which together provide significantly longer operating life, improved performance and greater bearing reliability.



▣ Customer Focus

Being close to our customers is an essential element of the X-life quality concept.

X-life grows with our customer requirements and vice-versa. Customers will benefit from constant new developments and additions to the X-life portfolio. New insights into the field of bearing kinematics, improved manufacturing methods and even better materials will ensure that customers receive the best support and the best solution whatever their application.



▣ Service Surround System

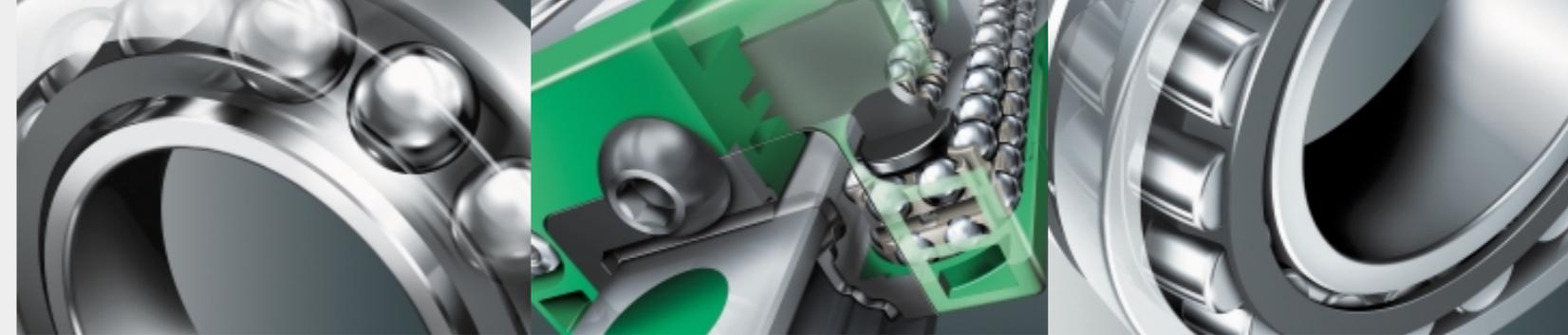
The Service Surround System is an integral part of the X-life portfolio. All the parameters that play a crucial role throughout the entire product life cycle are taken into account so that the best – and most cost-effective – solution is achieved.

In addition to innovative product features, X-life also incorporates comprehensive service elements such as lubrication concepts, mounting tools, highly sophisticated bearing selection and calculation models, and training courses for customer staff so that we can deliver a complete solution.

▣ X-Life “Partner Power”

Following the merger of INA and FAG – two leading bearing manufacturers with a total of over 180 years of experience in the industry – the comprehensive knowledge, innovative abilities and product development resources of both organisations have combined to set new world standards in bearing technology.

However, this new “Partner Power” is about more than just the partnership between two world class companies. It is also about an ethos of partnership between INA FAG and our customers in order to deliver the optimal solution for any application that far exceeds current standards and expectations.



Welcome to the future

Unmatched engineering excellence from INA FAG



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High Performance Spindle Bearings

- ▣ X-life ultra bearings are the standard for high speed spindles
- ▣ Operating life is 3 times longer due to special materials such as Cronidur 30 rings and ceramic rolling elements

Angular Contact Ball Bearings

- ▣ "Plateau finishing" reduces the surface roughness of the raceway and reduces frictional moment by up to 10%.
- ▣ 30% increase in fatigue limiting load
- ▣ Up to 50% longer service life

Machined Needle Roller Bearing NK & NKI

- ▣ New plastic cage for NK & NKI series reduces structure-borne noise levels by 70% compared to steel cage
- ▣ New cage design accommodates more rolling elements, increasing dynamic load rating by 18%
- ▣ Patented elastic retainers on cages eliminate needle protrusion saving mounting time

ELGES Large Spherical Plain Bearings

- ▣ With up to eight times the life expectancy of competitor products
- ▣ Features the Elgoglide® sliding layer providing 50% higher static load rating and 25% extended service life
- ▣ Radial bearings in bore diameters from 320 mm and thrust bearings from 220 mm.

Spherical Roller Bearings

- ▣ 17% increase in load carrying capacity
- ▣ Nominal rating life raised by 70%
- ▣ Incorporates latest developments in kinematics, material science and manufacturing processes
- ▣ Available in eight different series from 20 mm to 320 mm outside diameter.

Caged Cylindrical Roller Bearings

- ▣ Increased load ratings due to optimised surface characteristics of rollers and raceways
- ▣ 70% basic rating life increase
- ▣ 18% higher dynamic load rating
- ▣ Available with machined brass or plastic cage

Full Complement Cylindrical roller bearings

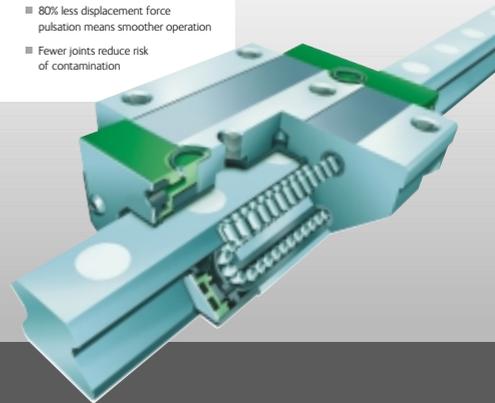
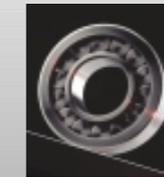
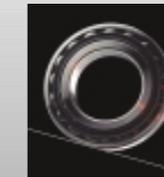
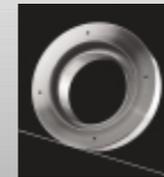
- ▣ Increased load ratings due to optimised surface characteristics of rollers and raceways
- ▣ Nominal life to DIN 281 has increased by 50% over conventional bearings
- ▣ Dynamic load rating has increased by an average of 13%

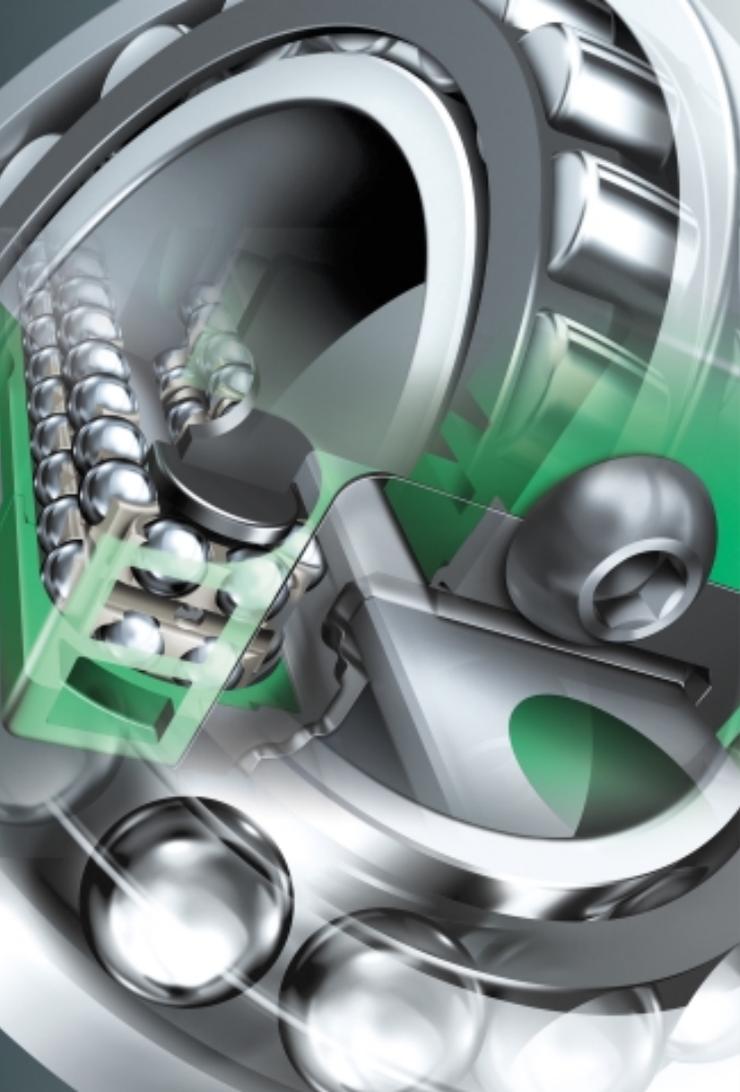
KUVE.. B (KT) Linear System

- ▣ Ball-type profiled rail units in "full complement roller system" or "quiet (KT)" version
- ▣ Running noise minimised by patented "quad spacers"
- ▣ Modular concept offers very high versatility and functionality

RUE.E (KT) Linear System

- ▣ Roller-type profiled rail with "full complement roller system" or "roller chain"
- ▣ 50% fewer, more rugged parts provide 10% higher rigidity
- ▣ 80% less displacement force pulsation means smoother operation
- ▣ Fewer joints reduce risk of contamination





FAG



The best in bearing technology

To find out more about X-life and other developments in bearing technology call 0121 351 3833 or visit our website at www.ina.co.uk

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