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## 公司

德国莱比锡滚柱滚珠轴承生产有限公司（KRW）传承了德国球轴承工厂（简称DKF）的优良传统，持续研发、生产高品质的滚子轴承，标记有“德国制造”的KRW高质量轴承产品现已遍布世界的各个角落。

KRW 莱比锡集团拥有100多年的工程经验、高素质员工、富于创新性的研发团队以及现代化的生产技术，使得KRW能够生产出具有极高价值的轴承产品。通过始终如一履行严格的质量管理，KRW始终能够达到DIN EN ISO9001认证要求，该认证由独立检验机构TÜV颁发。

目前的轴承产品样本既包括改良的标准型产品又包括各系列的创新产品。KRW除了标准轴承的生产外，还特别重视对“客制化”轴承解决方案的研发。目前我们的客制化产品超过产品总量的20%。

KRW在2010/2011年度的产品系列包括：

- 深沟球轴承
- 角接触球轴承，单列，双列
- 四点接触轴承
- 推力角接触球轴承
- 圆柱滚子轴承，单列，多列
- 圆柱滚子轴承（满装），单列，多列
- 圆柱滚子轴承，英制
- 推力圆柱滚子轴承
- 圆锥滚子轴承
- 球面滚子轴承 单列
- 球面滚子轴承，多列
- 特种轴承
- 附件和配件

（轴承外直径为D=125mm ~ 1300mm）  
依据DIN标准和ISO标准







## The Company

Kugel- und Rollenlagerwerk Leipzig GmbH is evolved from the company group "Deutsche Kugellagerfabriken GmbH" (DKF) and continues the development, production and the worldwide distribution of roller bearings under the brand name "KRW" with the seal of quality "Made in Germany".

With over 100 years of engineering experience, highly skilled employees, an innovative research and development department as well as modern production techniques KRW Leipzig GmbH reaches extremely valuable bearing products. By a consistent implementation of a stringent quality management KRW continually meets the criteria for obtaining the DIN EN ISO 9001 certification, which is awarded by TÜV as an independent inspecting authority.

Also, the present catalogue contains improved standard products and many innovations in various bearing series. Besides the production of standard bearings KRW pays particular attention to the development of customer-specific bearing solutions. Currently more than 20 percent of the produced bearings are special constructions.

In 2010/2011, the KRW product portfolio covers:

- Deep groove ball bearings
- Angular contact ball bearings, single row, double row
- Four point bearings
- Angular contact thrust ball bearings
- Cylindrical roller bearings, single row, multi row
- Cylindrical roller bearings (full complement), single or multi row
- Cylindrical roller bearings in inch size
- Cylindrical roller thrust bearings
- Tapered roller bearings
- Spherical roller bearings, single row
- Spherical roller bearings, multi row
- Special bearings
- Components and accessories

(Outer diameter range OD = 125 mm ... 1300 mm, in accordance with DIN and ISO standards).





KRW生产外径为125mm ~ 1300mm的标准轴承以及轴承零部件，为各行业领域应用提供多种适用的轴承产品。

With the production of standard bearings with an outer diameter of 125 mm to 1300 mm and single bearing components KRW offers a wide range of bearings products for numerous industrial applications.

无论是为原始设备配套还是应用于维修更换，KRW都只生产标有“德国制造”的最高品质轴承

Whether there are bearings for original equipment or for replacement needed - KRW only produces products with the highest quality and the label "Made in Germany".

在下列产品范围中列出了应用于重工业、能源和电力、电机、齿轮箱、发电机、铁路和运输、造船、港口技术以及工程等领域所有轴承部件和轴承系列，以及其详细参数。

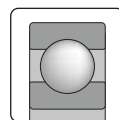
In the following product range, all bearing components and bearing series in the application fields of heavy industry, energy & power plants, motors, gear boxes and generators, rail & transportation, shipbuilding and port technology as well as engineering, with their specific characteristics will be presented.

### 深沟球轴承

深沟球轴承可承受径向和轴向力。该型轴承是使用最广泛的轴承类型。由于此类轴承允许角度误差有限，所以需要精确安装。此类轴承应用于许多领域，主要用于高速运转的机械。深沟球轴承价格低廉，可靠耐用。

### Deep Groove Ball Bearings

Deep groove ball bearings absorb radial and axial forces. They are among the most frequently used bearing types. Due to their limited capability of angular alignment, the bearings must be aligned accurately. They are used in many applications, primarily in machines that operate at high speeds. Deep groove ball bearings are competitively priced and very reliable.

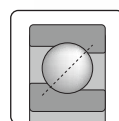


### 角接触球轴承，单列

此类轴承可承受单方向较大的轴向力。只在施加轴向负载的情况下能承受离心力。角接触球轴承适用于高速度。

### Angular Contact Ball Bearings, Single Row

This bearing type allows the absorption of large axial forces from one direction. Centrifugal forces can also be included, but only while axial loads are acting. Angular contact ball bearings are suitable for high speeds.

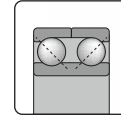


### 角接触球轴承， 双列

双列角接触球轴承相当于O型排列的两个单列角接触球轴承，但安装尺寸更小。在方向变化产生较高的径向荷载和推力荷载的情况下，经常采用双列角接触球轴承。

### Angular Contact Ball Bearings, Double Row

Double row angular contact ball bearings go together with the arrangement of two single row angular contact ball bearings with O-arrangement but with a smaller mounting dimension. Double row angular contact ball bearings are often used, where high radial and thrust loads are transferred from changing directions.

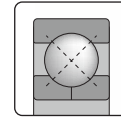


### 四点接触球轴承

四点接触轴承是单列角接触球轴承的子类，可承受双向轴向荷载。Q型四点接触球轴承具有一个分离的外圈。QJ型四点接触球轴承具有一个分离的内圈。从而确保了其高强度且便于安装的特点。

### Four Point Bearings

Four point bearings are a subgroup of single row angular contact ball bearings which absorb axial loads in both directions. Four point bearings version Q have a divided outer ring. Four point bearings version QJ have a divided inner ring. This concept ensures both high ruggedness and easy installation.



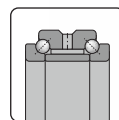


### 推力角接触球轴承

推力角接触球轴承是双向有效高精度轴承。主要结合双列圆柱滚子轴承使用，其中双列圆柱滚子轴承主要负责承载径向力。推力角接触球轴承便于拆卸和安装。

### Angular Contact Thrust Ball Bearings

Angular contact thrust ball bearings are bilateral effective high precision bearings. They are mainly used in combination with double row cylindrical roller bearings, whereat the double row cylindrical roller bearings are responsible for absorbing radial forces. Angular contact thrust ball bearings are easy to disassemble and mountable.

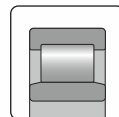


### 圆柱滚子轴承， 单列

KRW生产的单列圆柱滚子轴承主要为高负载型（后缀E）。圆柱滚子轴承采用钢制、铜制实体或玻璃纤维强化（聚酰胺）保持架。圆柱滚子轴承的可分离性使其在安装和拆卸是易于装配。滚子和滚道之间的修正线接触降低边缘应力。

### Cylindrical Roller Bearings, Single Row

At KRW single row cylindrical roller bearings are mainly manufactured as heavy-duty version (suffix E). Cylindrical roller bearings come with steel, solid brass or glass fibre reinforced plastic (polyamide) cages. The simple separability of Cylindrical Roller Bearings facilitates their assembly during mounting and dismounting. The modified line contact between the rollers and races reduces edge tension.



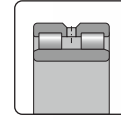


### 圆柱滚子轴承， 双列

双列圆柱滚子轴承尺寸小，具备较高的径向承载能力。能抗扭转，刚性较强。带锥形内孔的游隙可通过移动内圈方便调整。

### Cylindrical Roller Bearings, Double Row

Double row cylindrical roller bearings feature a low profile and offer a high radial load capacity. They are torsion-resistant and very stiff. The radial clearance for tapered bore is easy to adjust by moving the inner ring.

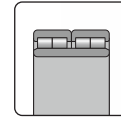


### 圆柱滚子轴承， 多列

多列圆柱滚子轴承的一大优点是径向承载能力极高。由于滚动体数量多，冲击力可均匀分布。其摩擦力小于其他类型的多列轴承。多列圆柱滚子轴承不能承受轴向力。但是允许少量的轴向位移。

### Cylindrical Roller Bearings, Multi Row

A big advantage of multi-row cylindrical roller bearings is their very high radial load capacity. Due to the large number of rolling elements the impact force is well distributed. The friction is lower than at other multi-row bearing types. Multi-row cylindrical roller bearing cannot absorb axial forces. However a slight axial displacement is possible.

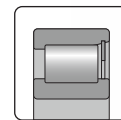


### 圆柱滚子轴承 (满装)，单列

满装圆柱滚子轴承能在低速下承受极高的载荷。开式单列和双列轴承主要用于齿轮箱中。此类无保持架轴承用代号字母V表示。

### Cylindrical Roller Bearings (Full Complement), Single Row

Full complement cylindrical roller bearings can withstand extremely high stresses at lower speeds. Unsealed single and double row bearings are used mainly in gear boxes. These cageless bearings are marked with the code letter V.

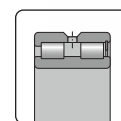


### 圆柱滚子轴承 (满装)，双列

此类型的满装滚子轴承中，滚动体由坚固的轴承套圈上的挡边引导。此类轴承的承载能力高于单列满装滚子轴承。

### Cylindrical Roller Bearings (Full Complement), Double Row

In this type of full complement roller bearings, the rolling elements are guided by flanges on the massive storage rings. The load rating of these bearings is higher than the load rating of single-row full complement roller bearings.

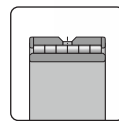


### 圆柱滚子轴承 (满装), 多列

多列满装圆柱滚子轴承非常耐用和坚固。主要用于有非常高的疲劳应力但速度较低的情况下。此类轴承可用作浮动端轴承、固定端轴承或阶梯轴承。

### Cylindrical Roller Bearings (Full Complement), Multi Row

Multi-row full complement cylindrical roller bearings are very viable and very stiff. They are mainly used in applications where very high fatigue stresses occur, but low speeds prevail. They can be used as floating, fixed or step bearings.

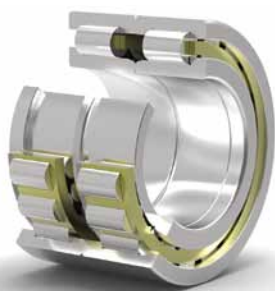
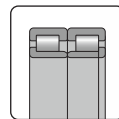


### 轴箱圆柱滚子轴承

轴箱圆柱滚子轴承是连接铁路车辆车轮和其他部分的轴承。轴箱圆柱滚子轴承和普通圆柱滚子轴承的结构类似。根据不同的应用, 轴承保持架可用玻璃纤维增强聚酰胺 (TN) 或黄铜 (M3) 制造。

### Axle Box Cylindrical Roller Bearings

Axle box cylindrical roller bearings are bearings that act between the wheels and the rest of the rail vehicle. Axle box cylindrical roller bearings have a similar structure to normal cylindrical roller bearings. Depending on the application the cages can be manufactured out of glass fiber reinforced polyamide (TN) or brass (M3).

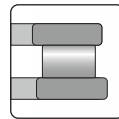


### 推力圆柱滚子轴承

由于其设计, 推力圆柱滚子轴承占空间小并能承受较高轴向力和冲击负载。此类轴承一般适用于较低速度的情况。由于轴承内部形状的因素, 滚子和滚道之间会产生较高的滑动摩擦力, 可通过适当的润滑降低摩擦。得益于其可分离性, 推力圆柱滚子轴承也便于安装。

### Cylindrical Roller Thrust Bearings

Due to their design, cylindrical roller thrust bearings use only little space and are able to take up high axial forces as well as impact loads. They are typically used at relatively low speeds. Due to the bearings' internal geometry, high slippage forces are produced between raceway and rollers, which can be reduced by appropriate lubrication. Thanks to their separability, cylindrical roller thrust bearings are easy to install.

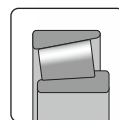


### 圆锥滚子轴承

圆锥滚子轴承主要用于需要高额定载荷且需同时承受轴向荷载和径向荷载的情况。此类轴承通常成对安装 (X型或O型排列), 以防止轴承完全分离。圆锥滚子轴承具有一定的速度限制。

### Tapered Roller Bearings

Tapered roller bearings are predominantly used in applications where a high load rating is required and where they primarily have to sustain combined radial and axial loads. These bearings are usually installed in pairs (X or O arrangement) to prevent a total discharge of the bearing. Tapered roller bearings are suitable for limited speeds only.

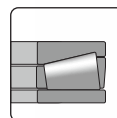


### 推力圆锥滚子轴承

推力圆锥滚子轴承能承受非常高的轴向力，而且尽管轴向空间需求较小，也能提供良好的抗冲击性能。圆锥滚子轴承非常坚固。

### Tapered Roller Thrust Bearings

Tapered roller thrust bearings can absorb very high axial forces and offer despite their relatively small axial space requirements, an optimum shock resistance. Bearings with Tapered roller bearings are very stiff.

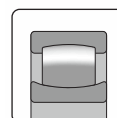


### 球面滚子轴承，单列

该球面滚子轴承是具有可调节接触角的单列滚子轴承。此类轴承特别适用于需要高径向承载能力，并能补偿偏斜的情况。此类轴承坚固的设计在径向冲击载荷的应用中得到了验证。但是此类球面滚子轴承的轴向承载能力非常低。这种轴承不可拆卸。

### Spherical Roller Bearing, Single Row

The spherical roller bearing is a single row roller bearing with adjustable contact angle. This type is especially suited for applications which require high radial load capacity and compensation of misalignment. Their solid design has been proved in applications with radial shock load. The axial load capacity of spherical roller bearings, however, is rather low. These bearings cannot be disassembled.



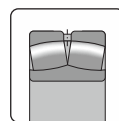


### 球面滚子轴承， 双列

除了带有固定引导挡边或浮动挡边的双列球面滚子轴承，KRW还生产无挡边的球面滚子轴承。由于其承载能力高，球面滚子轴承适用于需承受极高荷载的情况。此外，球面滚子轴承能承受双向轴向力，具有出色的调心性能，可消除轴偏斜或轴承座偏斜的影响。

### Spherical Roller Bearings, Double Row

Besides spherical roller bearings, double row with predefined guiding lips or floating flanges KRW manufactures spherical roller bearings without flanges. Because of their high load carrying capacity, spherical roller bearings, double row, are ideally suited for applications where extremely high loads have to be accommodated. Moreover, spherical roller bearings, double row can sustain axial forces in both directions, offering an excellent self aligning capability and are impervious to shaft deflections as well as misalignment of the bearing seats.

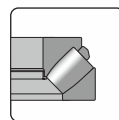


### 推力球面滚子轴承

推力球面滚子轴承是单列轴承，由于其内部结构，可以调节角度补偿轴偏斜。坚固的轴圈和座圈以及钢制或铜制保持架，保证了出色的承载能力。推力球面滚子轴承可承受径向应力，并适用于高速情况。

### Spherical Roller Thrust Bearings

Spherical roller thrust bearings are single row bearings which, due to their internal geometry, can adjust their angle to compensate shaft misalignments. Solid shaft washers and housing washers as well as steel or brass cages ensure an excellent load capacity. Spherical roller thrust bearings are able to take up radial forces and are suitable for higher speeds.

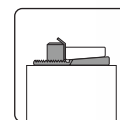


### 紧定套

紧定套用于将带锥孔（锥度为1:12和1:30）的圆柱、球面和双列球面滚子轴承固定在轴上。此外，可以用紧定套调整每个轴承的径向游隙。这允许轴径具有较大公差。

### Clamping Sleeves

Clamping sleeves are used to fix cylindrical, spherical and spherical roller bearings double row with tapered bore (taper 1:12 and 1:30) on shafts. In addition, the radial clearance of each bearing can be adjusted by using clamping sleeves. This allows larger tolerances of the shaft diameter.

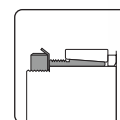


### 退卸套

退卸套用于配合锥型孔（锥度分别为1:12和1:30）的圆柱滚子轴承、单列和双列球面滚子轴承固定在圆柱轴上。滚动轴承靠在轴肩上，用相应工具将退卸套压入锥型孔中。根据DIN5416标准，退卸套为适用于轴径480mm以下的标准件。

### Withdrawal Sleeves

Withdrawal sleeves are used to attach cylindrical roller, single and double row spherical roller bearings with tapered bore (taper 1:12 or 1:30, respectively) on cylindrical shafts. The roller bearing rests on the shaft shoulder, the puller sleeve is pressed into the taper bore using suitable tools. Withdrawal sleeves are standardized components below a shaft diameter of  $d_w = 480$  mm according to DIN 5416.

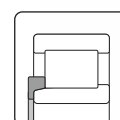


### 角圈

KRW生产NU和NJ系列的圆柱滚子轴承角圈。角圈用淬硬钢制成。尺寸适用于所有标准滚动轴承（包括其他厂家的轴承）。

### Angle Rings

KRW manufactures angle rings for cylindrical roller bearings, series NU and NJ. The angle rings are made of full hardening bearing steel. The dimensions are such that it is applicable to all standardized rolling bearings (even from other manufacturers).

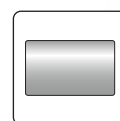


### 圆柱滚子

KRW圆柱滚子根据DIN5402标准制造。采用全硬化轴承钢制成。硬度为HRC 58~64。产品直径尺寸为14mm到120mm。滚子轮廓采用对数曲线设计以避免边缘应力。

### Cylindrical Rollers

KRW cylindrical rollers are manufactured in accordance to DIN 5402. They are made of full hardening bearing steel. They have a hardness of 58-64 HRC. The production range is from 14 mm to 120 mm. The roller's profile is designed logarithmic to avoid edge stresses.

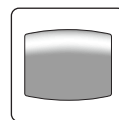


### 球面滚子

球面滚子采用全硬化轴承钢制成。硬度为HRC 58~64。KRW生产直径从16mm到170mm的球面滚子。还可生产非对称型球面滚子。

### Barrel Rollers

Spherical rollers are made of full hardening bearing steel. They have a hardness of 58-64 HRC. KRW manufactures spherical rollers with a rolling element diameter from 16 mm to 170 mm. The production of asymmetric spherical rollers is possible.

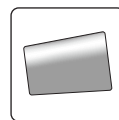


### 圆锥滚子

KRW生产20mm到170mm范围内的任何尺寸的圆锥滚子。滚子为对数曲线轮廓。由于KRW特殊的制造工艺，可加工出高精度等级的滚动体。滚动体的硬度为HRC 58~62，取决于客户的具体要求。

### Tapered Rollers

KRW produces tapered roller bearings in any size from 20 mm to 170 mm. The bearings will be manufactured with logarithmical profiles. Thanks to the special KRW manufacturing process a high level of precision by production of the rolling elements will be achieved. The rolling-elements will be produced with the grades of durability of 58-62 HRC, depending on customer specifications.









除了生产多种标准轴承，KRW还为客户生产越来越多的特种轴承。

In addition to manufacturing a wide range of standard bearings KRW Leipzig GmbH increasingly provides special bearings to their customers.

如果某种情况下需要轴承的特殊性能，则需要特殊类型的滚动轴承。

Special types of roller bearings are particularly necessary when certain conditions demand special properties of a bearing type.

客户确定工作情况时，在考虑了作业地区的预期特殊情况后，KRW工程师将为特种轴承的每个部件进行独特设计。

After creation of a job profile by the customer, in which anticipated specific conditions of the operational area are taken into account, the KRW engineers individually design each component of the special bearing.

随后轴承零部件将由KRW在德国专门进行制造和组装。

Then, the bearing components are exclusively manufactured and mounted by KRW in Germany.

通过过去多种特种轴承设计在各领域中的成功应用，KRW就此积累了大量的经验，KRW各种轴承产品的质量很好地诠释了这一点。

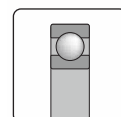
Through the successful use of a variety of special designs in various fields in the past and the present KRW now has a considerable amount of experience, reflecting in the quality of all bearing products from KRW.

### 薄壁轴承

薄壁轴承主要应用于格外需要节约空间和重量的情况。薄壁轴承为单列深沟球轴承、角接触球轴承或四点接触球轴承。

### Thin Section Bearings

Mainly for particularly space- and weight-saving design thin section bearings are used. Thin section bearings are manufactured as single row deep groove bearings, angular contact ball bearings or four-point bearings.

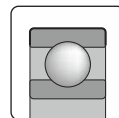


### 绝缘轴承

滚动轴承外圈的外表面、圆角和端面有一层70μm厚的氧化陶瓷涂层，保护轴承和周边部件免受电流损伤。不需要采用其他繁琐的绝缘措施。KRW为所有轴承类型提供高达500V ( SJ5 ) 和高达1000V ( SJ10 ) 的绝缘防护。

### Current Insulated Bearings

A 70 μm thick oxide ceramic insulating layer on the outer surface, the rounded edges and the flat surfaces of the outer ring of a roller bearing protects the bearings and surrounding components from damage by electrical power. Other elaborate conventional isolation methods are not necessary. KRW provides power isolation up to 500 V (SJ5) and up to 1000 V (SJ10) for all types of bearings.

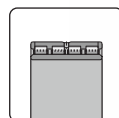


### 圆柱滚子轴承， 支柱保持架

承受高载荷的圆柱滚子轴承通常采用支柱保持架。空心滚子由支柱引导作为滚动体。此设计形式的轴承非常适用于承受极高径向荷载的情况，并有单列、双列或多列结构形式。

### Cylindrical Roller Bearings, Steel Pin Cage

Cylindrical Roller Bearings, which have to endure high load capacities, often feature pin type steel cages. Hollow rollers which are guided over the cage pins serve as rolling elements. Bearings of this design are especially suitable for very high radial loads and are available as single-, double- or multi-row bearings.

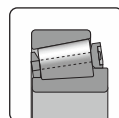


### 圆锥滚子轴承， 支柱保持架

对于长期承受径向重载荷和单向轴向载荷的轴承，非常适合采用带支柱保持架的圆锥轴承。此类轴承额定负载高，并且圆锥滚子和滚道之间为修正线接触，可避免边缘应力。为避免轴向反向脱离，此类轴承只能成对安装。

### Tapered Roller Bearings, Steel Pin Cage

For heavy long term bearing locations with combined forces from radial and single-sided axial directions, tapered roller bearings with cage bolts are very suitable. They have high load ratings and are equipped with modified contact lines between the tapered rollers and the raceways which prevent edge stresses. For reasons of axially counter-guide these bearings are only installed in pairs.







### 传统和经验

在莱比锡研发和生产标准轴承和特种轴承拥有一百多年的传统。

制造中型和大型轴承的经验来自于不断改善生产技术。

这种专有技术，特别是在生产特种轴承类型领域的经验，使KRW成为为您设计多种应用领域轴承系统的理想合作伙伴。

KRW轴承在全世界应用于下列领域

- 工程
- 重工业
- 能源和发电厂
- 铁路和交通运输
- 造船和港口设施
- 变速箱、电机和发电机

### 技术支持

KRW公司能帮助您找到正确的轴承方案，并协助您对滚子轴承的承载能力进行评估和计算。此外，KRW公司还为安装提供实际协助，并为滚子轴承的维护提供支持。

与KRW的工程师一道，为您在轴承应用的过程中，确定最佳方案。

KRW研发团队

### Tradition And Experience

The development and production of standard and special roller bearings in Leipzig has more than one hundred years of tradition.

The experience in the construction of medium size and large size bearings grew out of a continuously improved production technology.

This know-how, especially in special bearing construction, qualifies KRW Leipzig GmbH as your partner for designing bearing systems in different application fields.

KRW roller bearings are used worldwide:

- Engineering
- Heavy Industry
- Energy & Power Plants
- Rail & Transportation
- Shipbuilding & Port Technology
- Gear Boxes, Motors & Generators

### Technical support

KRW Leipzig GmbH supports you in finding the correct bearing method and assists you in assessing and calculating the load capacity of roller bearings. In addition, KRW Leipzig GmbH provides concrete assistance in the installation and supports you in the maintenance of roller bearings in your application.

Identify together with the KRW-engineers the optimum solution for your application.

Your KRW development team



### 原型制造

KRW公司采用计算机三维软件模拟构造原型。通过这种方法，您能确定滚子轴承应采用的材料种类。此外，还能获得设计数值和承载能力计算所需的重要数据。然后将生产这个原型，该原型必须能在实际工况或类似应力情况下运行。通过这一过程，能获得其他参数。

### Prototype building

KRW Leipzig GmbH is using computer based 3D programs for the virtual construction of prototypes. With this method, you can define the sort of material the roller bearing should be made of. Additionally important data for calculation of design values and load ratings can be obtained. Then a prototype will be manufactured, which must run in the asked application or a similar stress situation. Through this procedure other parameter can be derived.

### 制定润滑和热平衡方案

通过与润滑油行业的合作伙伴进行项目研究和紧密合作，在轴承构造过程中您就能确定最佳的材料和适宜的润滑方式。

### Preparation of recommended lubrication and heat balances

Through close cooperation and joint research projects with partners from the lubricant industry you already can determine the optimal choice of materials and adequate lubrication just during the construction process of a bearing.

### 寿命计算

KRW公司为所有类型轴承提供单独的寿命计算，同时还考虑滚子轴承在哪些应用领域最为合适。这将在轴承开始工作之前就显示出滚子轴承的性能和可靠性。

### Lifetime calculations

KRW Leipzig GmbH offers an individual lifetime calculation for all types of bearings with simultaneous consideration to the application field which the roller bearing will be made for. This can show efficiency and reliability of the roller bearings even before they are working in an application.

### 翻新

“翻新”一词是指复原的过程。使用过的甚至损坏的滚子轴承可通过机械加工，或更换某一轴承部件，使轴承可以重新使用，而且性能和承载能力没有损失。可通过翻新显著延长轴承的使用寿命。其他优势还包括更换成本低（重新生产成本的60%），交付时间短。

### Reconditioning

The term „reconditioning“ describes a recovery process. A used or even damaged roller bearing is prepared by machining or by a replacement of single bearing components so that it can be reused without loss of performance and without affecting the original load ratings in the original application. The operating life of certain bearings can be increased significantly by performing a reconditioning. Other advantages are the low replacement costs (60% of a remanufacturing) and a much shorter delivery period.



### 总部 / Head Office

KRW Leipzig GmbH  
Gutenbergstraße 6  
04178 Leipzig  
GERMANY

行政部门 / Administration  
Phone: +49 (0) 341 45320 0  
Fax: +49 (0) 341 45320 601  
E-Mail: [info@krw.de](mailto:info@krw.de)

销售部门 / Sales Department  
Phone: +49 (0) 341 45320 200  
Fax: +49 (0) 341 45320 201  
E-Mail: [sales@krw.de](mailto:sales@krw.de)

德国莱比锡滚柱滚珠轴承生产有限公司  
澳大利亚/南太平洋地区销售代表处

Sales Representative Office  
Australia/South Pacific

Level 9, Avaya House  
123 Epping Road  
North Ryde, Sydney, NSW 2113  
AUSTRALIA

电话: +61 (2) 8875 7872  
传真: +61 (2) 8875 7878  
E-Mail: [australia@krw.de](mailto:australia@krw.de)

德国莱比锡滚柱滚珠轴承生产有限公司  
中国销售代表处

Sales Representative Office  
China

中国 上海 黄陂北路227号  
中区广场811  
邮编200003

电话: +86 21 33665718  
传真: +86 21 33665709  
E-Mail: [china@krw.de](mailto:china@krw.de)

德国莱比锡滚柱滚珠轴承生产有限公司  
印度销售代表处

Sales Representative Office  
India

Level 7 Maximus Towers  
Building 2A Mindspace Complex  
Hi-Tech City, Hyderabad 500 081  
INDIA

电话: +91 40 4033 9820  
传真: +91 40 4033 9821  
E-Mail: [india@krw.de](mailto:india@krw.de)





**本文件内容负责人：**

Kugel- und Rollenlagerwerk Leipzig GmbH  
公共关系部门  
Gutenbergstraße 6  
04178 Leipzig  
GERMANY

电话: +49 (0) 341 45320 250

传真: +49 (0) 341 45320 251

E-Mail: marketing@krw.de

**注册地点:**

Leipzig

**注册编号:**

HRB 23541

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**董事总经理:**

Dr. Götz Hanke

**根据德国出版法的负责人:**

Karl Wolter - 全球销售和市场总监

**设计:**

Sven Denning

**编辑:**

Antje Lempart

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**Responsible for the content of these pages:**

Kugel- und Rollenlagerwerk Leipzig GmbH  
Dept.: Public Relations  
Gutenbergstraße 6  
04178 Leipzig  
GERMANY

Phone: +49 (0) 341 45320 250

Fax: +49 (0) 341 45320 251

E-Mail: info@krw.de

**Registration court :**

Leipzig

**Registration number:**

HRB 23541

**VAT registration number:**

255 727 203

**Managing Director:**

Dr. Götz Hanke, Dr.-Ing. Jens Walther

**Responsible according to German press law:**

Karl Wolter - Director Sales & Marketing

**Design:**

Sven Denning

**Editorial:**

Antje Lempart

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