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PRODUCT PORTFOLIO



Kharkov Bearing Plant HARP (Ukraine) holds leading positions in the CIS in the production of bearings for many industries: railway, agricultural machinery, automotive industry and others.

Kharkov Bearing Plant manufactures over 500 types of bearings with outer diameter from **30 to 400 mm** under the **HARP**, **HARP-AGRO** and **HARP-AUTO** trademarks, **hotforged** and **cold-rolled semi-finished products** and **components for automotive, railway and industrial bearings**.

A wealth of design and production experience (over 70 years) enables the company to continuously improve the developed products; thus, taking into consideration the machinery operating conditions and the machinery design modification of the leading in the CIS engineering and manufacturing companies, which production lines are currently supplied with HARP bearings.

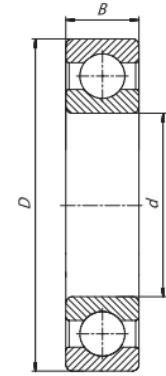
The company is ISO 9001:2008 and ISO/TS 16949:2009 certified. It is also a approved supplier for **SKF**, **Schaeffler Group** – the world leaders in the manufacture of bearings.

Table of content:

- 1. Single Row Deep Groove Ball Bearings**
- 2. Single Row Deep Groove Ball Bearings with Split Outer Ring**
- 3. Single Row Deep Groove Ball Bearings with Groove on Outer Ring**
- 4. Single Row Deep Groove Ball Bearings with One Shield**
- 5. Single Row Deep Groove Ball Bearings with Two Shields**
- 6. Single Row Deep Groove Ball Bearings with Shield and Groove on Outer Ring**
- 7. Single Row Ball Bearings with One-Sided Seal**
- 8. Single Row Ball Bearings with Double-Sided Seal**
- 9. Single Row Ball Bearings with Double-Sided Seal and Groove on Outer Ring**
- 10. Single Row Deep Groove Ball Bearings with Seals and Adapter Sleeve**
- 11. Single Row Deep Groove Ball Bearings with Double-Sided Seal, with Wide Inner Ring, Spherical Mounting Surface of Outer Ring and Locking Pin on Inner Ring**
- 12. Single Row Deep Groove Ball Bearings with Spherical Mounting Surface of Outer Ring with Seals**
- 13. Single Row Deep Groove Ball Bearings with Spherical Mounting Surface of Outer Ring with Seals on Adapter Sleeve**
- 14. Single Row Deep Groove Ball Bearings with Double-Sided Seal, with Wide Inner Ring, Spherical Mounting Surface of Outer Ring and Eccentric Locking Ring**
- 15. Single Row Deep Groove Ball Bearings with Double-Sided Seal, with Wide Symmetric Inner Ring, Spherical Mounting Surface of Outer Ring and Eccentric Locking Ring**

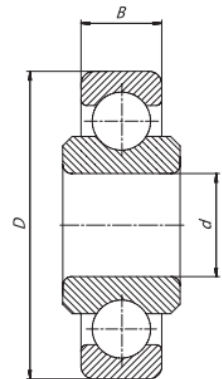
1. Single Row Deep Groove Ball Bearings

Single row deep groove ball bearings are intended for operation under radial loads. They also accommodate axial and combined loads. These bearings are produced both with pressed two-piece cage or massive (window-type) cage from different materials. They achieve the highest speed ratings and can operate at high rotational speed



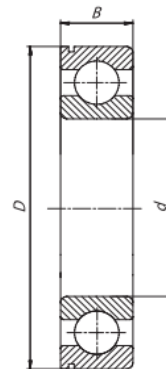
2. Single Row Deep Groove Ball Bearings with Split Outer Ring

Single row deep groove ball bearings without cages with split outer ring and slot for balls filling have big radial load ratings.



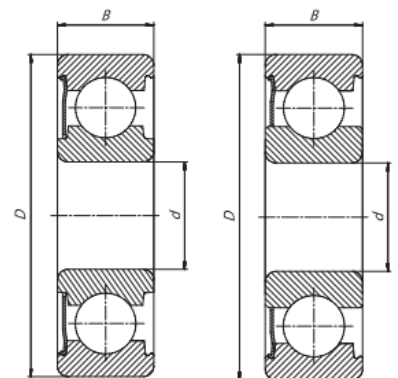
3. Single Row Deep Groove Ball Bearings with Groove on Outer Ring

Bearings with groove on outer ring for retaining ring are produced on the basis of single row deep groove ball bearings. Application of this structure allows to simplify design of bearing unit and mounting-dismounting operations during its assembly.



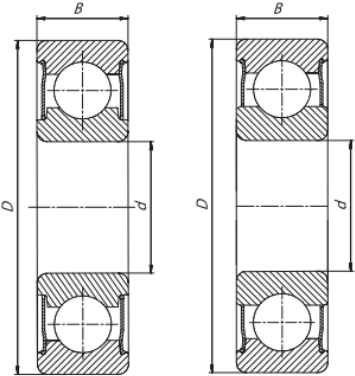
4. Single Row Deep Groove Ball Bearings with One Shield

Design of bearing protective devices in bearing unit can be simplified by the application of bearing with one shield (usually metal shield), tightly mounted in outer ring and with small gap in inner ring.



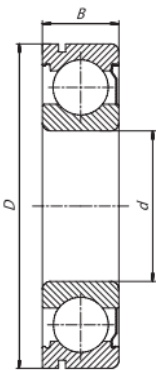
5. Single Row Deep Groove Ball Bearings with Two Shields

Application of bearing with two shields (with grease filled during production) simplifies design of the unit and avoids the necessity in technical maintenance during operation. These bearings shall be neither washed nor heated before mounting.



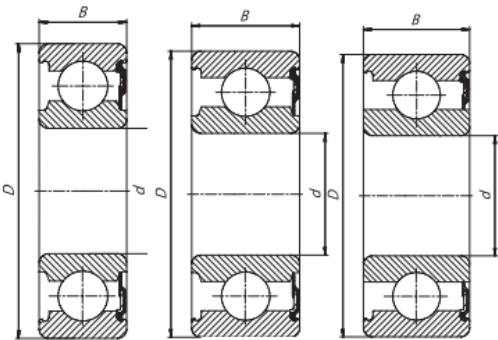
6. Single Row Deep Groove Ball Bearings with Shield and Groove on Outer Ring

Single row deep groove ball bearings with shield and groove on outer ring simplify design of the unit, mounting-dismounting operations during bearing assembly and necessity in technical maintenance of bearings.



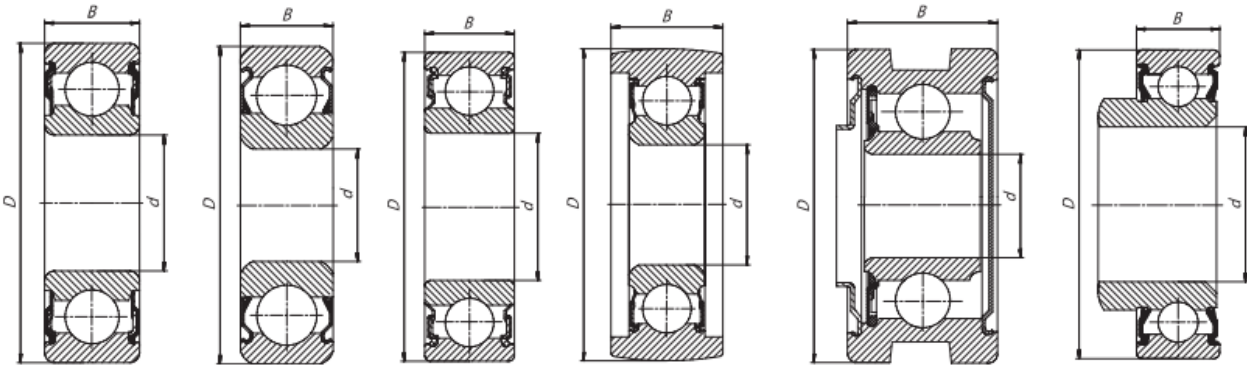
7. Single Row Ball Bearings with One-Sided Seal

Bearings with seals (usually reinforced rubber washers installed in outer ring of bearing and contact with inner ring) are produced for operation in extra dusty environment. Sometimes bearing seal consists of the set of metal washers and rubber-coated fabric. Seals hold grease in bearing and prevent ingress of foreign particles inside bearing cavity.



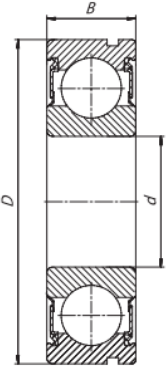
8. Single Row Ball Bearings with Double-Sided Seal

Bearings with seals (usually reinforced rubber washers installed in outer ring of bearing and contact with inner ring) are produced for operation in extra dusty environment. Sometimes bearing seal consists of the set of metal washers and rubber-coated fabric. Seals hold grease in bearing and prevent ingress of foreign particles inside bearing cavity. Most of the bearings with such design are manufactured with X-SHIELD sealings which have improved hermeticity (with suffix K10 in additional bearing designation), allowing the bearing to operate in dust environment.



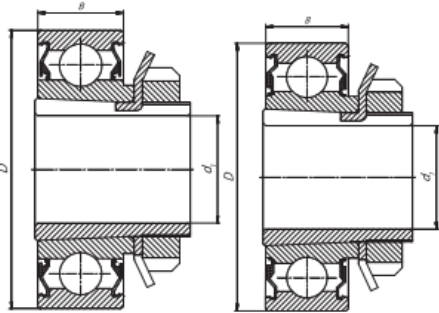
9. Single Row Ball Bearings with Double-Sided Seal and Groove on Outer Ring

Bearings with groove on outer ring for retaining ring are produced on the basis of single row deep groove ball bearings. Application of bearing with double-sided seal and groove simplifies design of the unit and mounting-dismounting operations during its assembly. Bearings with seals (usually reinforced rubber washers installed in outer ring of bearing and contact with inner ring) are produced for operation in extra dusty environment.



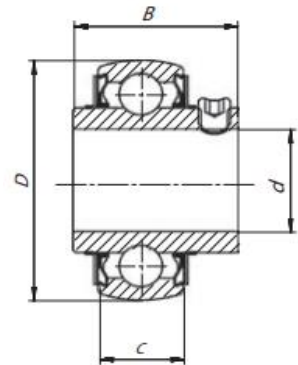
10. Single Row Deep Groove Ball Bearings with Seals and Adapter Sleeve

Single row ball bearings with seals on adapter sleeve are intended for assembling on smooth shafts. Seals hold grease in bearing and prevent ingress of foreign particles inside bearing cavity. Most of the bearings with such design are manufactured with X-SHIELD sealings which have improved hermeticity (with suffix K10 in additional bearing designation), allowing the bearing to operate in dust environment.



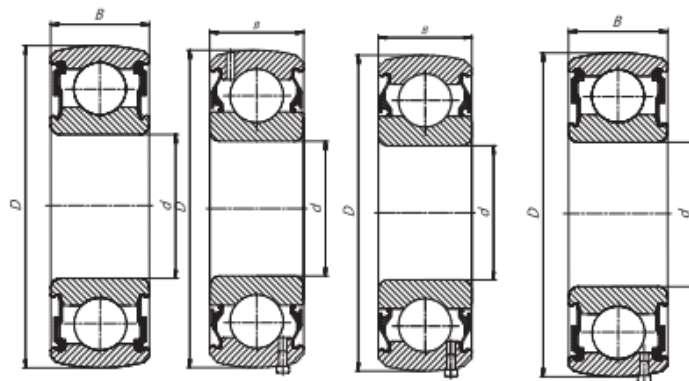
11. Single Row Deep Groove Ball Bearings with Double-Sided Seal, with Wide Inner Ring, Spherical Mounting Surface of Outer Ring and Locking Pin on Inner Ring

Such design allows to self-aligning of bearing within certain limits without prejudice to the performance during skew of bearing rings due to misalignment of mounting areas or shaft deflection caused by workloads. Seals hold grease and prevent penetration of foreign particles inside its cavity. All bearings with such design are manufactured with X-SHIELD sealings which have improved hermeticity (with suffix K10 in additional bearing designation), allowing the bearing to operate in dust environment.



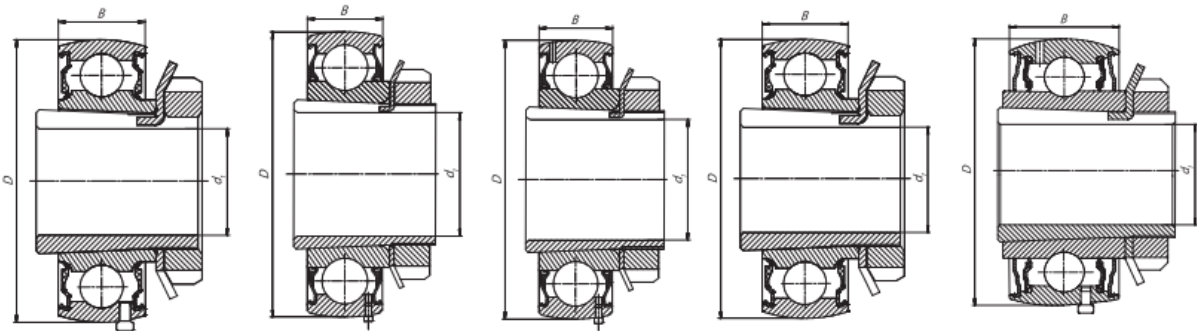
12. Single Row Deep Groove Ball Bearings with Spherical Mounting Surface of Outer Ring with Seals

Spherical ball bearings are self-aligning ball bearings. The main basic modification of this type is single row spherical bearing with spherical mounting surface of outer ring and seals. Such design performs self-aligning of bearing in some limits without performance degradation during skew of bearing rings due to misalignment of mounting seats or shaft deflection caused by working loads. Seals hold grease in bearing and prevent ingress of foreign particles inside bearing cavity. Most of the bearings with such design are manufactured with X-SHIELD sealings which have improved hermeticity (with suffix K10 in additional bearing designation), allowing the bearing to operate in dust environment.



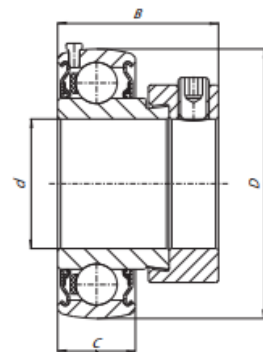
13. Single Row Deep Groove Ball Bearings with Spherical Mounting Surface of Outer Ring with Seals on Adapter Sleeve

Spherical ball bearings are self-aligning ball bearings. The main basic modification of this type is single row spherical bearing with spherical mounting surface of outer ring and seals. Such design performs self-aligning of bearing in some limits without performance degradation during skew of bearing rings due to misalignment of mounting seats or shaft deflection caused by working loads. Seals hold grease in bearing and prevent ingress of foreign particles inside bearing cavity. Most of the bearings with such design are manufactured with X-SHIELD sealings which have improved hermeticity (with suffix K10 in additional bearing designation), allowing the bearing to operate in dust environment.



14. Single Row Deep Groove Ball Bearings with Double-Sided Seal, with Wide Inner Ring, Spherical Mounting Surface of Outer Ring and Eccentric Locking Ring

Such design allows to self-aligning of bearing within certain limits without prejudice to the performance during skew of bearing rings due to misalignment of mounting areas or shaft deflection caused by workloads. Seals hold gease and prevent penetration of foreign particles inside its cavity. All bearings with such design are manufactured with X-SHIELD sealings which have improved hermeticity (with suffix K10 in additional bearing designation), allowing the bearing to operate in dust environment.



15. Single Row Deep Groove Ball Bearings with Double-Sided Seal, with Wide Symmetric Inner Ring, Spherical Mounting Surface of Outer Ring and Eccentric Locking Ring

Such design allows to self-aligning of bearing within certain limits without prejudice to the performance during skew of bearing rings due to misalignment of mounting areas or shaft deflection caused by workloads. Seals hold gease and prevent penetration of foreign particles inside its cavity. Most of the bearings with such design are manufactured with X-SHIELD sealings which have impoved hermeticity (with suffix K10 in additional bearing designation), allowing the bearing to operate in dust environment.

