



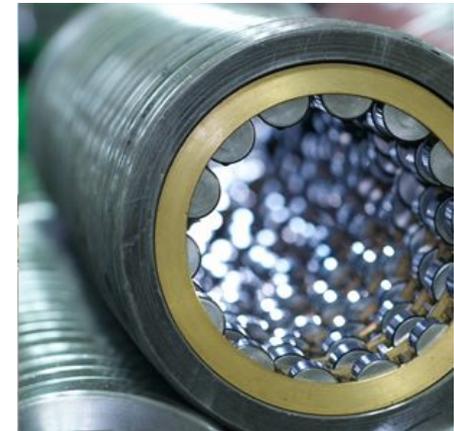
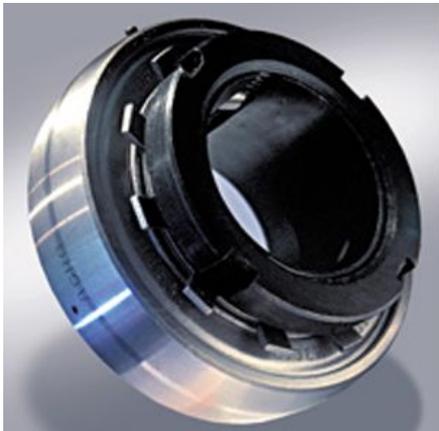
# Kharkov Bearing Plant (HARP) Ukraine

Approved supplier of components for Schaeffler Group

**SCHAEFFLER**



**FAG**



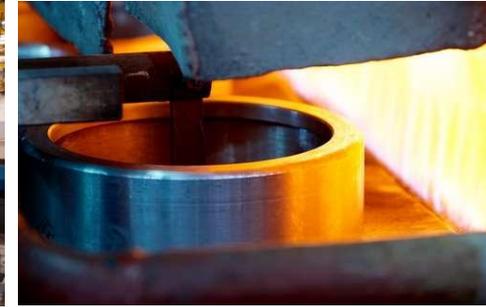
# Kharkov Bearing Plant (HARP)



The Kharkov Bearing Plant HARP (formerly GPZ-8) is one of the biggest manufacturers of the bearing products in the CIS.

The Kharkov Bearing Plant manufactures rolling bearings, bearing units, hot-forged and cold-rolled semi-finished products and components for the automotive, railway and industrial bearings.

The company is ISO 9001:2008 and ISO/TS 16949 certified. HARP is also an approved supplier for Shaeffler Group – the world leader in the manufacturing of bearings.

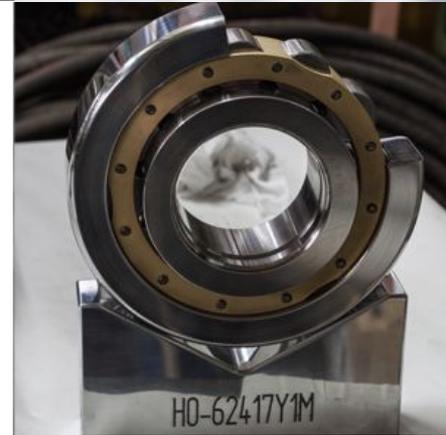


# HARP bearings



The 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.

The geography of supply: Czech Republic, Poland, Bulgaria, Romania, Slovakia, Slovenia, Latvia, Lithuania, Egypt, Pakistan, Iran, Kazakhstan, Moldova, Republic of Belarus , Russia.



# General types of HARP bearings



**Single Row Deep Groove Ball Bearings**



**Double Row Spherical Ball Bearings**



**Cylindrical Roller Bearings with Short Rollers**



**Angular Contact Ball Bearings**



## HARP customers and partners:



ArcelorMittal

The world's largest steel producer

**ROSTSELMASH**

Russian agricultural equipment company

**BELARUS**  
MINSK TRACTOR WORKS

A major industrial enterprise in Belarus. With a number of plants that produce parts and attachable tools for tractors and other vehicles.

**SALFORD**

Agricultural equipment «SALFORD» provides soil mixing, fall residue management, nutrient application, and seed bed preparation.

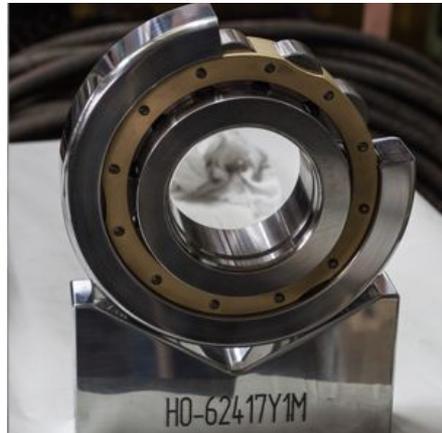
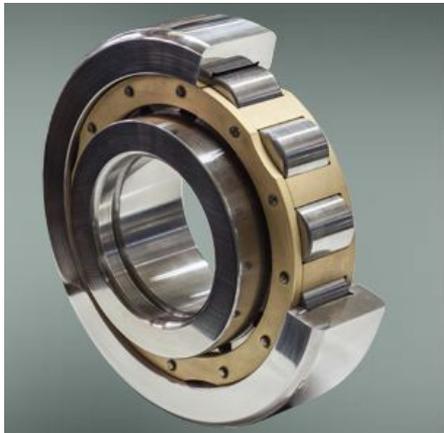


# Cylindrical Roller Bearings with Short Rollers



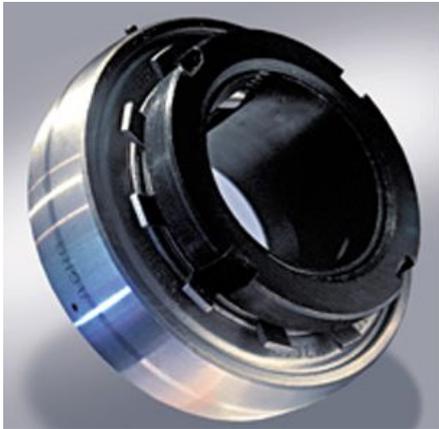
Kharkov bearing plant (HARP) is the only in Ukraine and one of the biggest manufacturers of the Cylindrical Roller Bearings with Short Rollers in the CIS.

Today HARP holds leading positions in the production of railway bearing units for the entire 1520 area, mining and metallurgical complex.

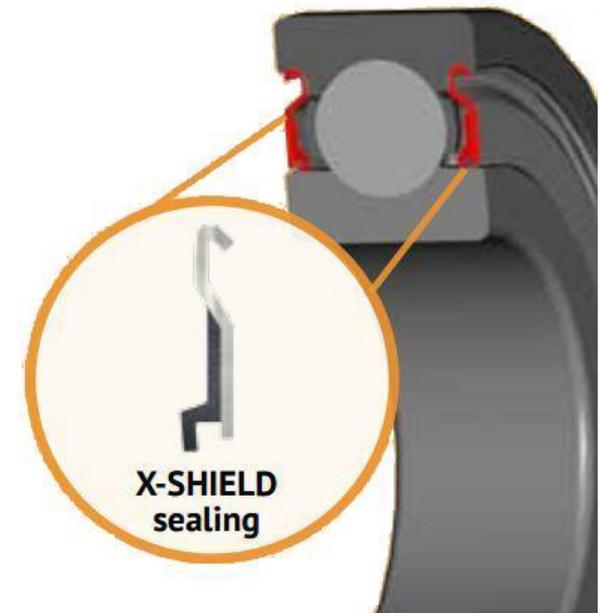


# HARP-AGRO Bearings for agricultural machinery

Specialists working at the Kharkov Bearing Plant, which was designed and constructed in accordance with agricultural machinery needs, clearly understand the difficulties of both, who develop agricultural machinery and who operate it. A wealth of design and production experience (over 60 years) enables the company to continuously improve the developed products.



At the moment almost the whole **HARP-AGRO** bearing range for agricultural machinery can be manufactured both with a standard sealing and a tighter **X-SHIELD** sealing (with suffix K10 in additional bearing designation)



### X-SHIELD sealing :

- allows bearings to contact the dust environment and to operate efficiently in extreme operating conditions of the agricultural machinery;
- increases the service life of products;

## UC 205...210



## ES 205...208



## EX 205...210



### Comparative designation

SKF:        YAR

FAG:        UC

SNR:        UC

FKL:        LE

KOYO:       UC

SKF:        YET

FAG:        GRAE

SNR:        ES

FKL:        UY

KOYO:       SA

SKF:        YEL

FAG:        GE

SNR:        ES

FKL:        LY

KOYO:       NA

# HARP-AGRO Bearings for agricultural machinery



**203KRR.AH02-530903EKL19**



**AA205DD-376905EKL19**



**205 KRRB2-420905EL19**



## Comparative designation

JOHN DEERE: JD 9214

CASE: F16246

FAG: 518855

NEW HOLLAND: 6653

FKL: 203KRR.AH02

JOHN DEERE: AA205DD

205VVH

GREAT PLAINS: 188-001V

FKL: SL 5316 2T

JOHN DEERE: JD9260

KINZE: G2-10003

GREAT PLAINS: 822-119C

FKL: 205KRRB2

# The main advantages of the HARP bearings



## Improved steel for bearings

For HARP ball bearings there is used only ultra-pure steel with a reduced proportion of oxygen. This improved steel increases lifespan of the bearing and reduces fatigue failures.

## High accuracy in manufacturing of working surfaces of the bearing parts

Noise and vibration are reduced as a result.

## Optimized radius of the bearing races

Optimized radius of the bearing races, that allows to increase the dynamic load capacity of bearings and, consequently, their durability.

## Improved ball

In HARP bearings there are used balls with a high degree of accuracy (accuracy of 5-16 degrees) to ensure noise and vibroacoustic characteristics, to increase durability.

## Improved roller

In HARP roller bearings the roller is applied with modified contact, which improves bearing performance.

## Usage of effective seals

X-SHIELD sealing allows the bearing to work in the dusty and extreme working conditions.

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Kharkov Bearing Plant  
(HARP)



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