

## Insert Bearings

US Series insert bearings-



Model US 209 2S

Dimensiones [mm]

D 45

D 85

B 19

d<sub>1</sub> 56.6D<sub>1</sub> 72.6

E 6.1

r1.2 1.1

Capacity (kN)

C 32.5

C<sub>0</sub> 20.4

Pu 0.64

Mass

kg 0.4

# US Series Set Screw Insert Bearing US205 US206 US207 Narrow Inner Spherical Ball Bearing SNR NTN Interchange

## US Series insert bearings

| Parameter Item     | Standard Specification                                                                                                                                                           |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Full Model Range   | US201 ~ US210 Metric; US204-12 ~ US208-24 Inch Bore                                                                                                                              |
| Bearing Type       | Single Row Deep Groove Outer Spherical Insert Bearing, Single M6 Set Screw Lock, Narrow Standard Inner Ring                                                                      |
| Core Structure     | Spherical outer ring (self-aligning $\pm 2^\circ$ ), narrow standard inner ring, single 120° opposite M6 socket set screw locking, single lip NBR rubber seal with metal slinger |
| Raw Material       | Inner/Outer Ring: Vacuum degassed GCr15 chrome steel; G10 precision steel ball; stamped steel cage                                                                               |
| Locking Mechanism  | Single dual opposite M6 set screws, simple shaft clamping for light & medium vibration equipment                                                                                 |
| Seal Option        | Standard single lip SL seal; double lip TJ seal customizable for dusty workshop                                                                                                  |
| Internal Clearance | CN standard clearance; C3 extra clearance for high-speed light-duty equipment                                                                                                    |
| Precision Grade    | P0 standard industrial grade; P6 high precision for food packaging machinery                                                                                                     |
| Load Capacity      | Light-medium radial load, tiny bidirectional axial load                                                                                                                          |

| Parameter Item          | Standard Specification                                                                                                                                                                                                                                                                                            |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limiting Rotation Speed | Grease lubrication: 3800 ~ 5300 r/min (size dependent)                                                                                                                                                                                                                                                            |
| Operating Temperature   | -30°C ~ +120°C                                                                                                                                                                                                                                                                                                    |
| Interchangeability      | Fully interchangeable with SNR, NTN, FYH US series set screw insert bearings                                                                                                                                                                                                                                      |
| Matching Housings       | UCP pillow block, UCF 4-bolt flange, UCFL 2-bolt flange, UCT take-up housing                                                                                                                                                                                                                                      |
| Certificates            | ISO9001, RoHS, REACH                                                                                                                                                                                                                                                                                              |
| HS Code                 | 84821020000                                                                                                                                                                                                                                                                                                       |
| Core Features           | Compact narrow inner ring saves axial installation space; simple dual set screw locking for quick assembly; spherical outer ring compensates mounting misalignment; lightweight low-friction design for light-load conveyors; pre-filled long-life lithium grease with external grease nipple for re-lubrication. |

## US Series insert bearings Product Features

- Narrow standard inner ring structure, smaller axial width than UC/UE wide inner series, perfectly fits compact narrow housing design to reduce overall equipment volume.
- Dual opposite M6 socket set screws at 120°, uniform clamping force, quick installation and disassembly without special tools, suitable for low & medium vibration forward-reverse rotation equipment.
- Spherical outer ring self-aligning design allows  $\pm 2^\circ$  angular misalignment compensation, eliminates abnormal noise and premature raceway spalling caused by frame assembly deviation.
- Standard single lip composite seal with outer metal slinger, blocks dry dust and light water splashing, lightweight low rolling resistance reduces motor power consumption for long continuous operation.
- Pre-filled long-life high-temperature lithium complex grease, equipped with external grease nipple for supplementary lubrication; full hardness & noise inspection before shipment, stable mass production delivery.

## FAQ

### Q1: Can you provide custom bearings?

Yes, we support OEM and custom production based on your drawings, samples, or technical requirements.

**Q2: What is the delivery time?**

Standard models: 5-10 working days. Custom products: depending on specifications and order quantity.

**Q3: Looking for a reliable agricultural bearing supplier?**

Send your inquiry to get:

Fast quotation within 24 hours

Technical support from experienced engineers

Custom solution suggestions for your application

Competitive factory-direct pricing

Click Send Inquiry or contact us now to discuss your bearing requirements.

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