

## Insert Bearings

LY Series Insert bearings-



## Model

|   |                 |
|---|-----------------|
| 1 | LY 203/12 2F    |
| 2 | LY 203/12 2F.SH |

الأبعاد<sup>٤</sup>مم

|                |         |
|----------------|---------|
| د              | 12      |
| د              | 40      |
| ب              | 37.3    |
| ج              | 12      |
| s              | 13.9    |
| d <sub>1</sub> | 24.2    |
| B <sub>1</sub> | 27.8    |
| d <sub>2</sub> | 28.6    |
| B <sub>2</sub> | 13.5    |
| E              | 3.6     |
| Gs             | M6×0.75 |
| sw             | 3       |
| r1.2           | 0.3     |
| r3.4           | 0.6     |

## Load capacity (kN)

|    |      |
|----|------|
| ج  | 9.56 |
| C0 | 4.75 |
| بو | 0.2  |

## Mass

|     |       |
|-----|-------|
| كلغ | 0.162 |
|-----|-------|

# LY Series Single Eccentric Lock Insert Bearing LY204 LY205 LY206 LY207 LY208 Single Extended Wide Inner Ring Double Lip Seal Spherical Ball Bearing For Unidirectional Agricultural Grain Conveyor Light Farm Machinery

## LY Series Insert Bearings Technical Parameter

## LY-Series-Insert-bearings

| Parameter Item          | Standard Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Full Model Range        | LY201 ~ LY210 Metric; LY204-12 ~ LY208-24 Inch Bore<br>Cross Reference: LS, UY, SA single eccentric insert bearing                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Bearing Type            | Single Row Deep Groove Outer Spherical Insert Bearing, one-side extended wide inner ring + single eccentric locking collar                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Core Structure          | Spherical convex outer ring ( $\pm 2^\circ$ self-aligning compensation), single extended inner shoulder, single eccentric anti-slip collar, standard SL double-lip NBR composite seal with steel anti-dust flinger, single external grease nipple                                                                                                                                                                                                                                                                                                                 |
| Raw Material            | Vacuum degassed GCr15 chrome bearing steel, super-finished raceway & G10 precision steel balls, standard stamped steel cage                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Locking Mechanism       | Single eccentric collar mounted on single extended shoulder, generates stable self-locking friction under unidirectional rotation, anti-slip under medium farm & workshop vibration                                                                                                                                                                                                                                                                                                                                                                               |
| Seal Option             | Standard SL double-lip dust & light mud seal; TJ triple-lip heavy mud seal customizable for extreme muddy farm & construction sites                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Internal Clearance      | CN standard clearance; C3 extra clearance for high-speed continuous vibration equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Precision Grade         | P0 industrial standard; P6 high precision for food processing production lines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Load Capacity           | Medium radial load, light bidirectional axial load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Limiting Rotation Speed | Grease lubrication: 3600 ~ 5100 r/min (size dependent)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operating Temperature   | -30°C ~ +120°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Interchangeability      | 1:1 fully interchangeable with FYH SA, NTN UY, LS series single eccentric insert bearings                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Matching Housings       | UCP pillow block, UCF 4-bolt square flange, UCFL 2-bolt oval flange, UCT take-up cast iron housing                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Certificates            | ISO9001, RoHS, REACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| HS Code                 | 8482102000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Core Features           | Simplified single-side extended inner ring reduces overall cost; single eccentric collar delivers reliable anti-slip performance for single-direction rotation without shaft indentation damage; double-lip multi-stage seal blocks dry crop dust, light mud and splashing rainwater; self-aligning spherical outer ring offsets mounting misalignment; pre-filled long-life high-temperature grease with single external grease nipple for regular re-lubrication; universal spherical outer diameter fully compatible with standard cast iron bearing housings. |

## LY Series Insert Bearings Features

- Simplified single-side extended inner ring structure cuts raw material and production cost, outstanding cost-performance solution for general unidirectional rotation equipment without ultra-heavy mud pollution.
- Single eccentric locking collar forms stable friction locking during forward rotation, effectively prevents inner ring slipping under medium field vibration, no sharp indentations or scratches

on precision shafts compared to UC set screw bearings.

- Standard SL double-lip composite seal with outer steel flinger forms double-layer barrier, fully blocks dry crop dust, light mud and splashing rainwater, meets most indoor semi-outdoor farm working conditions.
- Single external grease nipple simplifies daily lubrication maintenance, evenly distributes lubricant to internal rolling elements, extends service life for 24-hour continuous low-medium speed conveying operation.

## FAQ

**Q: What is the difference between LY, LS, UY, LN, LE, UH, UC, UE, US, UK insert bearings?**

A:LY / LS / UY: Single-side extended wide inner ring + single eccentric collar, double-lip seal, low cost for unidirectional medium vibration dry/light mud farm equipment

- LN / LE: Double-side extended wide inner ring + single eccentric collar, triple-lip heavy mud seal, dedicated for heavy muddy field unidirectional equipment
- UH: Double eccentric collars, bidirectional anti-slip for frequent forward-reverse heavy vibration equipment
- UC: Wide inner ring dual set screw, universal light multi-direction vibration standard budget
- UE: Concentric split collar, uniform circumferential clamping without shaft scratch
- US: Narrow slim inner ring, space-saving compact light-duty indoor machinery
- UK: 1:12 tapered inner bore + H adapter sleeve, fit smooth unthreaded shafts without machining

**Q: Can LY series work for frequent forward-reverse rotation equipment?**

A: Not recommended; single eccentric collar only locks primary rotation direction and will slip under reverse rotation, choose UH double eccentric series for bidirectional switching equipment.

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