Insert Bearings
LY Series Insert bearings-

Model	
1	LY 311 2F
2	LY 311 2F.SH
الأبعاد مم	
د	55
د	120
ب	73
ج	34
s	27.8
d_1	75.3
B_1	55.6
d_2	83
B_2	22.2
E	8.5
Gs	M10×1
sw	5
r1.2	2
r3.4	2
Load capacity (kN)	
ج	71.5
C0	45
بو	1.9
Mass	
كلغ	2.34

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

Parameter Item	Standard Specification
Full Model Range	LY201 ~ LY210 Metric; LY204-12 ~ LY208-24 Inch BoreCross 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 (±2° 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℃ ~ +120℃
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 Feactrues

- 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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