

Pillow Block Bearings

UEU,LEU,UYU,LYU,LKU+H Series Pillow Block Bearings-



Model LSU 209 2F

Dimensiones [mm]

D 45

L 120

A 48

A<sub>1</sub> 32

J 95.3

GRAMO M12

G<sub>1</sub> 22

H 106.5

H<sub>1</sub> 54

S<sub>1</sub> 17.5

Fig. 5

Mass

kg 1.82

# UEU LEU UYU LYU LKU+H Series Extra Long U Stroke Take-Up Bearing UEU LEU UYU LYU LKU+H Cast Iron Long Slotted Base Concentric Eccentric Tapered Bore Insert Bearing For Long-Distance Conveyor Mining Heavy Agricultural Transport Machinery

## UEU,LEU,UYU,LYU,LKU+H Series Pillow Block Bearings Technical Parameter

| Comparison Item         | UEU (Concentric Split Collar Extra Long Take-Up Unit) | LEU (Dual Extended Eccentric Triple Mud Seal Extra Long Take-Up Unit) | UYU (Single Extended Eccentric Medium Extra Long Take-Up Unit) | LYU (Economical Single Extended Eccentric Extra Long Take-Up Unit) | LKU+H (Tapered Bore + H Sleeve Extra Long Take-Up Unit) |
|-------------------------|-------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|
| Matching Insert Bearing | UE Concentric Split Collar Insert                     | LE Double-Side Extended Inner Single Eccentric Insert                 | UY Single-Side Extended Inner Single Eccentric Insert          | LY Economical Single-Side Extended Inner Single Eccentric Insert   | UK 1:12 Tapered Bore Insert + H Adapter Sleeve          |

# UEULEUUYULYULKUH-Series-Pillow-Block-Bearings

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|-----------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Housing Feature             | U extra long slotted cast iron, maximum adjustment stroke, thick wall heavy-duty                           | Reinforced ultra-long U sliding housing, anti-crack for mining/muddy heavy conveyors                   | Standard U long take-up base, balanced long travel & medium load cost                     | Simplified U long sliding base, lowest cost light-duty long-stroke take-up housing         | Universal U extra long take-up housing compatible with taper sleeve inserts                         |
| Inner Ring Structure        | Standard wide inner ring, no extension                                                                     | Symmetric double-side wide extended inner ring                                                         | Single-side wide extended inner ring                                                      | Simplified single-side extended inner ring                                                 | Tapered 1:12 inner bore, no extension                                                               |
| Locking Mechanism           | 360° full circumferential split collar, uniform clamping force                                             | Single eccentric collar, maximum contact anti-slip area under heavy vibration                          | Single eccentric collar, medium anti-slip friction torque                                 | Single eccentric collar, basic economical locking structure                                | Tapered bore + H sleeve interference fit                                                            |
| Standard Seal               | SL double-lip reinforced NBR with steel anti-dust flinger                                                  | 3S triple-lip ultra heavy mud seal + outer anti-mud slinger                                            | SL double-lip dust & light mud reinforced seal                                            | SL lightweight double-lip dust-proof seal                                                  | SL double-lip general dust & coolant seal                                                           |
| Grease Nipple               | Single side grease fitting                                                                                 | Dual-side full coverage grease nipples for full raceway lubrication                                    | Single grease nipple                                                                      | Single simplified grease nipple                                                            | Single side grease fitting                                                                          |
| Rotation Adaptation         | Bidirectional, frequent forward-reverse, medium-high speed medium-heavy load                               | Only unidirectional, severe mud/straw heavy vibration mining/harvester long conveyors                  | Only unidirectional, semi-outdoor dry grain long-distance heavy transport                 | Only unidirectional, indoor dry light load, ultra-strict long-stroke budget control        | Bidirectional rotation, polished smooth unthreaded heavy tension shafts                             |
| Anti-Slip Grade             | Excellent, zero shaft indentation or scratch                                                               | Top-tier heavy vibration anti-loosening performance                                                    | Good medium-heavy vibration anti-slip capacity                                            | Basic economical anti-slip performance                                                     | Uniform circumferential clamping, no shaft surface damage                                           |
| Typical Working Environment | Long-distance bidirectional industrial fans, heavy packaging long conveyors, large textile tension rollers | Large combine harvesters, mining stone long belt conveyors, outdoor heavy grain drying transport lines | Dry grain long-distance belt tensioners, semi-outdoor medium agricultural heavy machinery | Indoor large packaging long conveyor tension adjustment, woodworking heavy transport lines | Polished smooth unthreaded heavy drive shafts, large printing/textile long-stroke tension equipment |
| Cost Level                  | Medium-High                                                                                                | Medium                                                                                                 | Medium-Low                                                                                | Lowest U extra long stroke take-up unit                                                    | Medium-High (extra H sleeve cost)                                                                   |

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|-----------------------|-------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|
| Interchange Reference | Long stroke UET concentric take-up extended variant   | Long stroke LET triple mud seal eccentric take-up extended variant    | Long stroke SAT/UYT single eccentric take-up extended variant  | Economical LS/SA long U sliding base take-up assemblies            | Long stroke UKT+H tapered bore take-up extended variant |

## Series Naming Rule Explanation

- Suffix U = Extra Long Slotted Take-Up Housing: Extra long sliding adjustment slot, larger linear travel range for heavy belt/chain tension fine-tuning, thicker reinforced cast iron for heavy shock loads; compared with T-type short take-up base, U-type has double adjustment stroke.
- Middle code = Insert bearing locking & inner ring structure:
  - EU (UEU) = UE concentric split collar insert (wide inner ring, 360° uniform clamping, bidirectional rotation)
  - EU (LEU) = LE double-side symmetric extended inner single eccentric insert (triple heavy mud seal, unidirectional severe muddy outdoor sites)
  - YU (UYU) = UY single-side extended inner single eccentric insert (double-lip reinforced seal, medium vibration unidirectional)
  - YU (LYU) = LY economical single-side extended inner single eccentric insert (light dust seal, budget light-medium load indoor equipment)
  - KU+H (LKU+H) = UK 1:12 tapered bore insert + H split adapter sleeve (smooth unthreaded shaft, zero shaft scratch)

Full complete unit codes:

- UEU = UEU Series (UE concentric split collar insert + U extra long stroke take-up housing)
- LEU = LEU Series (LE dual extended eccentric insert + U extra long stroke take-up housing)

- UYU = UYU Series (UY single extended eccentric insert + U extra long stroke take-up housing)
- LYU = LYU Series (LY economical single extended eccentric insert + U extra long stroke take-up housing)
- LKU+H = LKU+H Series (UK tapered bore insert + H sleeve + U extra long stroke take-up housing)

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