Pillow Block Bearings
UEF LEF UYF LYF LKF+H Series Pillow Block Bearings-

| Model | UEF 209 2S |
|---|---|
| Dimensiones (mm) | |
| D | 45 |
| A | 47.8 |
| $A_1$ | 38 |
| $A_2$ | 16 |
| J | 105 |
| L | 137 |
| norte | 16 |
| Fig. | 1 |
| Mass | |
| kg | 2.08 |

# UEF LEF UYF LYF LKF+H Series Square 4-Bolt Flange Bearing UEF LEF UYF LYF LKF+H Cast Iron 4-Hole Flange Insert Bearing Concentric Eccentric Tapered Bore For Agricultural Conveyor Construction Machinery

## UEF LEF UYF LYF LKF+H Series Pillow Block Bearings Technical Parameter

| Comparison Item | UEF (Concentric Split Collar Flange Unit) | LEF (Dual Extended Eccentric Heavy Mud Flange Unit) | UYF (Single Extended Eccentric Medium Flange Unit) | LYF (Economical Single Extended Eccentric Flange Unit) | LKF+H (Tapered Bore + H Sleeve Flange Unit) |
|---|---|---|---|---|---|
| Matching Insert Bearing | UE Concentric Split Collar | LE Double Extended Inner Single Eccentric | UY Single Extended Inner Single Eccentric | LY Economical Single Extended Inner Single Eccentric | UK Tapered 1:12 Bore Insert + H Sleeve |
| Inner Ring Structure | Standard wide inner ring, no extension | Symmetric double-side wide extended inner ring | Single-side wide extended inner ring | Single-side simplified extended inner ring | Tapered 1:12 inner bore, no extension |

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|---|---|---|---|---|---|
| Locking Mechanism | 360° concentric split collar, full uniform clamping | Single eccentric collar, large contact anti-slip area | Single eccentric collar, medium anti-slip friction | Single eccentric collar, economical basic locking | Tapered bore + H adapter sleeve interference fit |
| Standard Seal | SL double-lip reinforced NBR with steel flinger | 3S triple-lip ultra heavy mud seal + outer slinger | SL double-lip dust & light mud seal | SL light double-lip dust-proof seal | SL double-lip general dust seal |
| Grease Nipple | Single side grease fitting | Dual-side full coverage grease nipples | Single grease nipple | Single simplified grease nipple | Single side grease fitting |
| Rotation Adaptation | Bidirectional, frequent forward-reverse, high speed | Only unidirectional, severe muddy heavy vibration | Only unidirectional, semi-outdoor medium vibration | Only unidirectional, indoor dry light load, cost control | Bidirectional rotation, smooth unthreaded shafts |
| Anti-slip Grade | Excellent, zero shaft indentation/scratch | Top-tier heavy vibration anti-loosening | Good medium vibration anti-slip | Basic economical anti-slip | Uniform circumferential clamping, no shaft damage |
| Typical Working Environment | Heavy bidirectional fans, packaging heavy conveyors, high-vibration gearboxes | Severe mud, sludge, straw, outdoor combine harvesters, stone conveyors | Dry grain heavy transport, semi-outdoor medium farm equipment | Indoor dry packaging, light dry agricultural machinery | Polished smooth unthreaded transmission shafts, precision equipment |
| Cost Level | Medium-High | Medium | Medium-Low | Lowest budget flange unit | Medium-High (extra H sleeve cost) |
| Interchange Reference | FYH UEF / NTN UEF concentric flange units | FYH YELF / NTN AELF triple mud seal flange units | FYH SAF / NTN UYF single eccentric flange units | Economical LS/SA square flange housing units | SKF UKF+H / NTN UKF+H tapered bore flange assemblies |

# UEF LEF UYF LYF LKF+H Series Pillow Block Bearings Feactures

### UEF Series (Concentric Split Collar Square Flange)

1. Concentric split locking collar provides uniform 360° circumferential clamping force, no indentations or scratches on precision smooth shafts, ideal for high-speed heavy motor & bidirectional transmission equipment.

2. Adapt to frequent forward-reverse rotation without inner ring slipping, solves loosening failure of eccentric flange units for bidirectional heavy machinery.

3. Standard double-lip reinforced steel flinger seal blocks heavy workshop dust and light water splash, stable long-term operation for heavy packaging, large HVAC fans and heavy gearbox shafts.

4. Wide inner ring large contact area improves overall load capacity for long-span heavy conveyor rollers, fully interchangeable with imported UEF concentric square flange units.

5. 4-hole square flange symmetrical mounting layout, uniform bolt force distribution, no housing deformation under heavy continuous vibration.

### LEF Series (Dual Extended Eccentric Triple Mud Seal Square Flange)

1. Double-side symmetric extended wide inner ring greatly increases contact area with eccentric collar, superior anti-slip performance under violent field heavy vibration than UYF/LYF single extended variants.

2. Standard triple-lip 3S multi-layer heavy mud seal with outer steel anti-mud flinger, completely isolates thick mud, crop straw, sand and rainwater for extreme outdoor farm/construction harsh sites.

3. Dual-side grease nipples realize full raceway lubrication coverage, eliminate local dry friction during all-day non-stop heavy harvesting and stone conveying work.

4. Single eccentric cost far lower than double eccentric UHF square flange units, perfect cost-performance for unidirectional heavy-duty farm equipment.

5. Dedicated for large combine harvester threshing, feeding rollers and outdoor heavy single rotation grain & stone transport conveyors fixed on vertical machine frames.

### UYF Series (Single Extended Eccentric Medium-Duty Square Flange)

1. Single-side extended inner ring simplified structure, balanced anti-slip performance and procurement cost for medium vibration unidirectional agricultural machinery.

2. Standard double-lip standard seal meets dry grain dust and light field mud working conditions, avoids over-spec triple-lip extra cost for semi-outdoor farm equipment.

3. Single grease nipple easy daily maintenance, simple on-site disassembly and replacement by farmers for large grain transport machinery.

4. Stable self-locking friction under single-direction rotation, no slipping for grain transport belt conveyors fixed on vertical frames.

5. Interchangeable with FYH SAF / NTN UYF single eccentric square flange units, mainstream aftermarket replacement bearing for medium-heavy farm equipment.

### LYF Series (Economical Single Extended Eccentric Square Flange)

1. Most economical square flange bearing line, simplified single extended inner ring reduces raw material cost for strict budget heavy machinery projects.

2. Standard double-lip dust seal fits indoor dry workshop and light dry farm equipment without heavy mud exposure, cast iron flange still meets medium load demand.

3. Compact lightweight 4-hole square unit design, saves procurement cost for large batch mini heavy packaging rollers and light dry construction material conveyors.

4. Single eccentric locking structure avoids shaft indentations compared to UCF set screw square flange units, low failure rate for low-medium vibration unidirectional equipment.

5. Complete metric & inch full size range, support mixed small-batch orders for light heavy machinery retailers and equipment OEMs.

### LKF+H Series (Tapered Bore Insert + H Adapter Sleeve Square Flange)

1. Tapered 1:12 inner bore matched with split H adapter sleeve, uniform circumferential clamping force without any scratch or indentation on polished smooth unthreaded shafts.

2. No special machining required on shaft surface; install & remove sleeve easily without damaging shaft precision surface, ideal for high-precision transmission equipment.

3. Standard double-lip reinforced seal blocks workshop dust and light coolant splash, stable bidirectional rotation performance for heavy vertical-mounted gearbox shafts.

4. Large contact area between sleeve and inner ring distributes heavy radial/axial load evenly, resistant to long-hour continuous heavy vibration fatigue wear.

5. Fully interchangeable with SKF/NTN UKF+H square flange assemblies, perfect for printing, textile, packaging machinery with smooth polished drive shafts.

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