

Slewing Ring Bearing — Application Data Sheet / RFQ

The more complete this sheet is, the faster and more accurate our recommendation. Fields marked * are needed before engineering can begin — anything else you can provide helps us get it right the first time. If a load diagram or drawing exists, attach it; a sketch is fine.

1 • Customer & Application

* **Company:** _____

* **Contact / email / phone:** _____

Date needed / target lead time: _____

* **Machine or equipment:** _____ *e.g., crane, turntable, wind, excavator, packaging*

* **Function of the bearing in the machine:** _____

* **New design or replacement?:** _____ *if replacement, give competitor make / model / part #*

Quantity / annual usage: _____

2 • Operating Conditions

* **Axis orientation:** _____ *horizontal / vertical / inclined*

* **Motion type:** _____ *continuous rotation / intermittent / oscillating*

* **Operating speed:** _____ *RPM (and osc. angle & cycles/min if oscillating)*

* **Duty cycle:** _____ *hours/day, starts-stops, % time under peak load*

* **Required life:** _____ *hours or total revolutions/cycles*

Temperature range: _____ *ambient + any process heat*

Environment: _____ *indoor/outdoor, dust, wash-down, marine/corrosive, vacuum*

3 • Loads (the critical section)

Give the peak (worst-case) values AND the normal operating values if they differ. State whether the loads act at the same time (combined) and whether they are steady, dynamic, or shock. If a load diagram exists, attach it — it removes most of our follow-up questions.

* **Axial / thrust load — peak & normal:** _____

* **Radial load — peak & normal:** _____

* **Tilting / overturning moment — peak & normal:** _____

* **Loads combined or separate?:** _____ *which loads occur simultaneously*

* **Load character:** _____ *steady / dynamic / shock or impact*

Load offset / center of gravity: _____ *distance from bearing centerline — drives the moment*

4 • Space & Envelope

Max outside diameter: _____

Min bore / inside diameter: _____

Max height / section: _____

Bolt-circle or interface constraints: _____

5 · Gear & Mounting

Gear required?: _____ *none / internal teeth / external teeth*

If geared: _____ *module or DP, # teeth, pinion, backlash, material/hardness*

Mounting structure material & stiffness: _____ *steel / cast / aluminum; rigid or flexible*

Mounting bolts available: _____ *grade, size, quantity; seat flatness*

6 · Lubrication, Sealing & Special Requirements

Lubrication: _____ *grease / oil; re-lube access?*

Sealing needs: _____ *standard / heavy-contamination / submerged*

Standards, certifications, coatings: _____

Safety factor or code requirements: _____

Attachments included: _____

For office use — triage

Routine (templated path) ☐ Escalate — judgment required ☐ Initial candidate / notes: _____