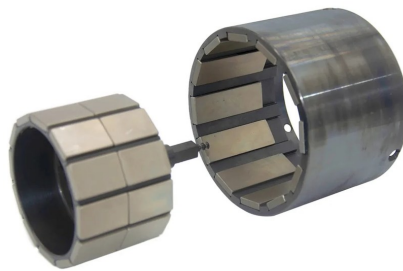


ASSEMBLY REFERENCE

Magnetic Couplings

Define the magnetic function, mechanical interface and verification plan together. Final requirements belong on the project drawing and agreed specification.



Product illustration. Geometry and configuration are project-specific.

Define the application.

Torque and speed

Provide continuous, peak, startup and stall torque, speed range, acceleration, duty cycle and the driven fluid or load.

Process boundary

Define pressure, vacuum, leakage criterion, fluid chemistry, temperature, cleanability and the containment material requirement.

Envelope and interfaces

Share shaft, flange, bearing, can, air-gap and mounting dimensions, plus allowable misalignment and runout.

Failure modes

Describe dry run, blocked shaft, thermal runaway, loss of synchronization, reverse rotation and maintenance conditions.

VALIDATION PLANNING

Agree what success means.

Torque-speed curve

Test the coupling across the agreed speed and torque range, including startup, transient and thermal conditions.

Containment integrity

Use the specified leak, pressure, cleanliness or sterilization method on the final process boundary.

Temperature rise

Measure magnet, can, bearing and process-side temperatures under representative load and speed.

Runout and alignment

Verify concentricity, axial position, air gap and shaft alignment because mechanical error reduces torque margin.

Define the next step.

Share your drawing, application conditions and target quantity for a material or assembly review.

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ABOUT THIS EDITION

New editorial reference edition 2026.09-R1, compiled 2026-09-27. Catalogue data and selection questions are reorganized for clarity. This edition does not record an engineering approval or certify a measured production result.

Source: Empire Magnets existing product catalogue and technical-library archive. For a project-controlled specification, request an engineering review.