

NON-CONTACT MAGNETIC GEARS & COUPLINGS

*Clean, Quiet, and Safe Motion
Powered by Non-Contact Technology*



Why Non-Contact Technology?

- No particle generation from tooth surface wear
- Operates without the need for lubrication
- Barrier transmission allows for seal-less designs
- Low noise and vibration due to non-contact power transmission
- Easier assembly with high angular and eccentric misalignment tolerance
- Magnetic slip under overload enhances safety conditions

What Are Magnetic Gears?

A magnetic gear, also known as a non-contact gear, is a toothless power-transmission component that utilizes magnetic force from permanent magnets—such as neodymium magnets—to transfer rotational speed and torque between two shafts without physical contact. This contactless power transmission offers magnetic gears significant advantages over conventional mechanical gears.



**Magnetic
Bevel Gears**



**Magnetic
Spur Gears**



**Magnetic
Screw Gears**



**Magnetic
Couplings**



**Magnetic
Rack & Pinion**



**Magnetic
Speed Reducer**

SEE THE BACK
for
Applications & Benefits!



**Conventional
Mechanical Gears**



**Magnetic
Bevel Gears**



**Magnetic Pole
Arrangement**

Magnetic gears (center) offer unique benefits beyond conventional gears (left). The image on the right shows the magnetic pole arrangement.

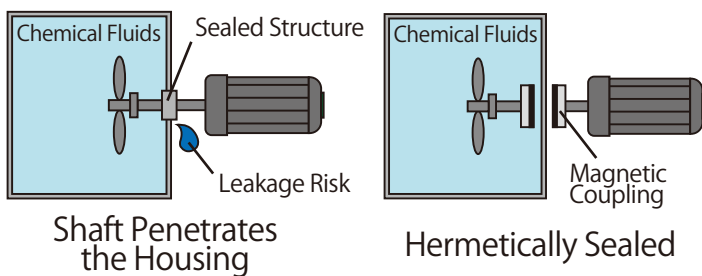
Solve It with a Non-Contact Solution!

- Concerned about particle generation in cleanrooms?
- Looking to reduce lubrication requirements?
- Experiencing leakage issues with shaft seals?
- Concerned about noise and vibration?
- Struggling with gear assembly and alignment?
- Need overload protection?

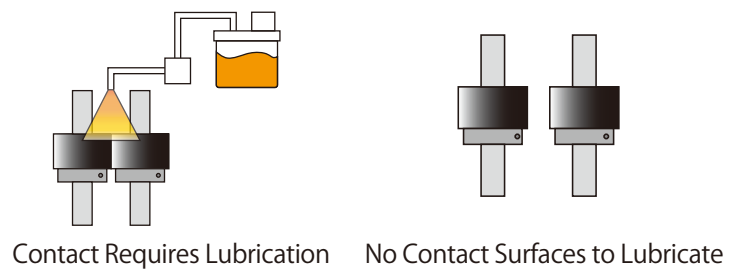


Applications & Benefits

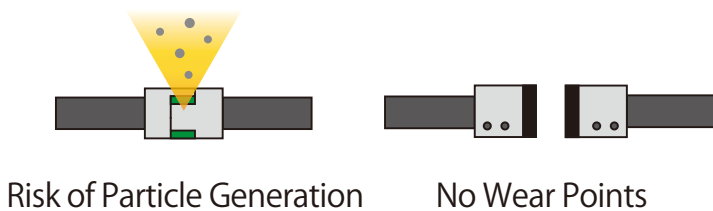
No Shaft. Just Torque.



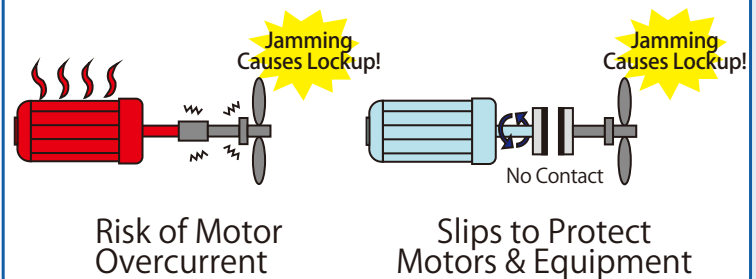
Nothing to Lubricate



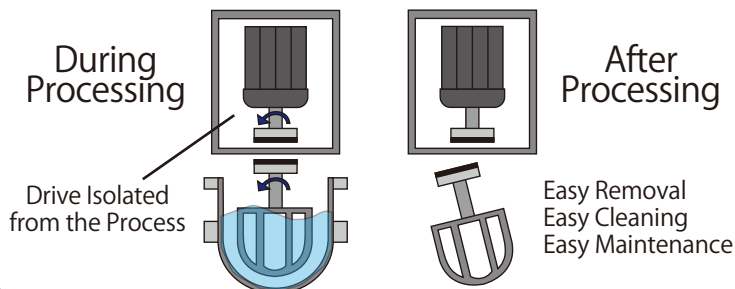
No Contact. No Particles.



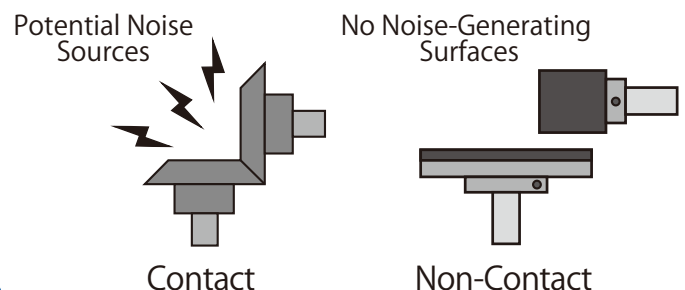
Slip. Not Break.



Power Through the Wall



Contact-Free. Quiet by Nature.



KHK
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