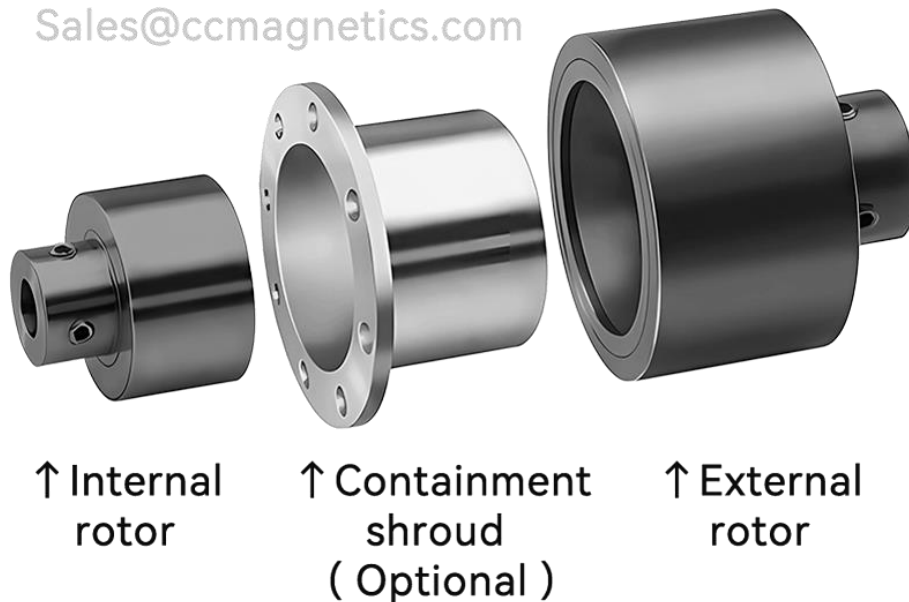


XC Co-axial Magnetic Couplings Catalog

What are magnetic couplings?

The co-axial magnetic coupling transmits torque without contact through magnetic forces between the internal and external rotors. It ensures hermetic separation between the driving and driven sides in pumps and agitators, reliably sealing hazardous liquids and gases. The magnetic torque coupling consists of an external rotor and an internal rotor. Containment shroud is non-magnetic and it is an optional configuration.

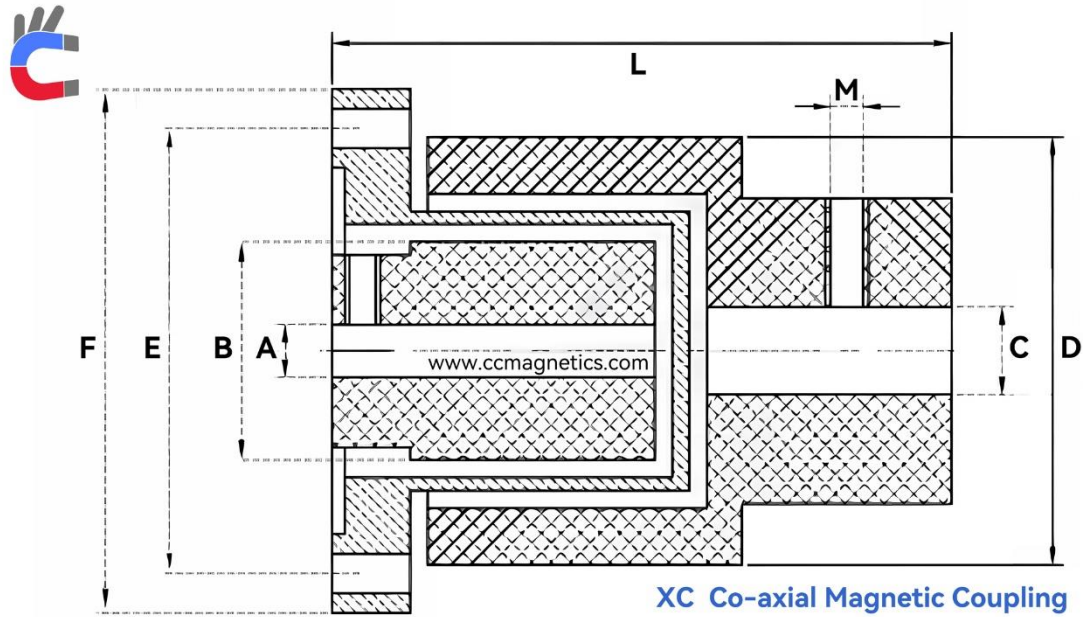
Sales@ccmagnetics.com



The internal rotor and external rotor contain high-quality permanent magnets with alternating polarity on its inner side. The external rotor is typically mounted on the drive side, with its magnets securely bonded within the keyways. The magnets on the internal rotor (driven side) are fully encapsulated.

In this animation, we will demonstrate the [working principle of coaxial magnetic couplings](#).

Parameter:



Parameter defined in mm & N.m

Model	D	ΦC	M	B	ΦA	Nominal Torque [N.m]	L	F	E
XC45	45	8~19	M4	27	6~15	2N.m	67	65	55
XC60	60	12~24	M5	35	8~18	5.4N.m	78	90	77
XC62	62	12~24	M5	-	8~18	6N.m	76	-	-
XC80	80	15~28	M6	48	10~20	11.5N.m	90	115	99
XC90	90	15~28	M8	-	10~20	15N.m	137	-	-
XC90L	90	15~28	M8	-	10~20	25N.m	151	-	-
XC100	100	25~35	M8	58	15~25	43.8N.m	129	142	122
XC120	120	28~35	M8	70	15~30	84N.m	137	165	145
XC164	164	30~40	M8	-	15~30	100N.m	174	-	-

Parameter defined in inches/in.lbs

Model	D	ΦC	M	B	ΦA	Nominal Torque [in-lb]	L	F	E
XC45	1.77	0.31~0.75	M4	1.06	0.24~0.59	18	2.64	2.56	2.17
XC60	2.36	0.47~0.94	M5	1.38	0.32~0.71	48	3.07	3.54	3.03
XC62	2.44	0.47~0.94	M5	-	0.32~0.71	53	2.99	-	-
XC80	3.15	0.59~1.10	M6	1.89	0.39~0.79	102	3.54	4.53	3.9
XC90	3.54	0.59~1.10	M8	-	0.39~0.79	133	5.39	-	-

XC90L	3.54	0.59~1.10	M8	-	0.39~0.79	221	5.94	-	-
XC100	3.94	0.98~1.38	M8	2.28	0.59~0.98	388	5.08	5.59	4.8
XC120	4.72	1.10~1.38	M8	2.76	0.59~1.18	744	5.39	6.5	5.71
XC164	6.46	1.18~1.57	M8	-	0.59~1.18	885	6.85	-	-

Customizable Items:

1. Third-party authoritative testing available.

Globally recognized torque and material test reports issued by authoritative organizations are provided.

2. Flexible options for surface metal materials.

The metal material can be flexibly customized. Stainless steel 304 is used as the standard material, with stainless steel 316 available as an optional choice.

3. No MOQ and Global Door-to-Door Delivery.

We offer global door-to-door delivery service with no minimum order quantity (MOQ).

4. Shaft Diameter and Shape (Free Service).



Type A
setscrew



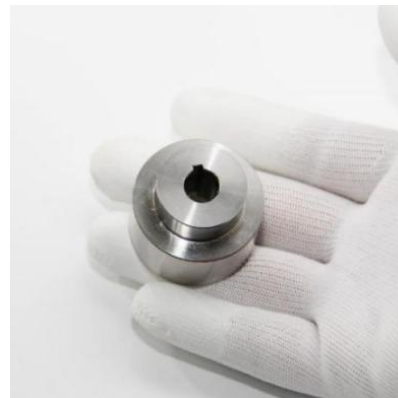
Type B
with feather keyway
and setscrew

You can choose the shaft's size and shape to meet your specific needs.

5. Containment shroud (optional).



Containment shroud



Stainless steel internal rotor

6. Custom rubber sealing rings available.

7. Various magnet grades and material options.

- Maximum temperature resistance: 300°C.
- Torque adjustable based on magnet grade and type (optional neodymium magnets and samarium cobalt magnets).

About Us:

Established in 2010 and headquartered in Beijing, China, CCmagnetics is a duly registered commercial entity operating under the auspices of the Chinese industrial and commercial authorities.

CCmagnetics supplies contactless magnetic drives products to 39 countries and regions worldwide. This is made possible by: exquisite workmanship, meticulous and professional service, and extremely high overall cost performance. Our products have won widespread praise from global customers.

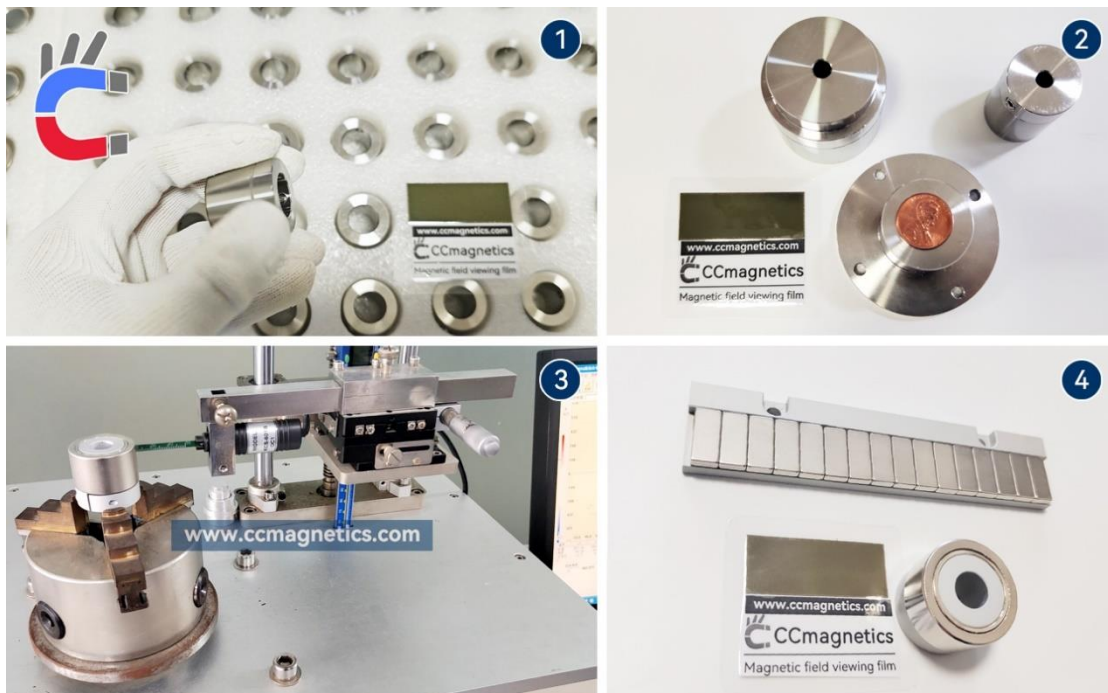


Image Captions:

1. Stainless steel 316l (UNS31603) PT series magnetic gear pairs awaiting packaging and shipment to germany.
2. Custom-made stainless steel 304 (UNS30400) co-axial magnetic couplings for our valued customer.
3. All magnetic drive/transmission products undergo rigorous magnetic field testing before shipment.

4. Custom-made rack pinion gears designed for laboratory liquid shaking applications.

Representative Patents

Since its inception, our company has been dedicated to the field of magnetic transmission and magnetic rings. Our representative patents include:



Patent Name 1: Comprehensive management system for magnetic ring production line.

Patent Name 2: Fixture tooling for rubber mold.

Patent Name 3: Axial magnetization equipment.

Patent Name 4: Magnetic detection equipment for sealing ring.

Patent Name 5: Torque adjustable magnetic coupling.

Patent Name 6: Magnetic suction coupling with clutch function.

Ordering Information:

Payment:

We accept payment via proforma invoice and 100% T/T.

Credit card payments are accepted, but a 2.9% surcharge will apply.

Packaging and Logistics:

We accept delivery through the customer's preferred shipping company.

Our packaging materials, including tinplate, kraft paper, and foam, fully comply with EU environmental regulations.

Delivery Time:

Shipment will be arranged within 30 days after receipt of payment. Delivery time may be shorter if our factory schedule permits.

Transportation time is estimated to be 7-10 days.

After-sales Service:

- Our products undergo rigorous quality inspection and testing before leaving the factory.
- Based on the demagnetization curve of neodymium iron boron, our products have a lifespan of 60-100 years under normal conditions.
- Our products are made of metal and magnets that meet international standards, and the adhesives are made of the well-known brand 3M, and additional material safety reports can be provided.
- If any quality issues are found within one year, please provide photos as proof. We will compensate with a new product in your next order. The defective product does not need to be returned.

Contact us: