Ferrite Encoder Magnetic Ring Catalog

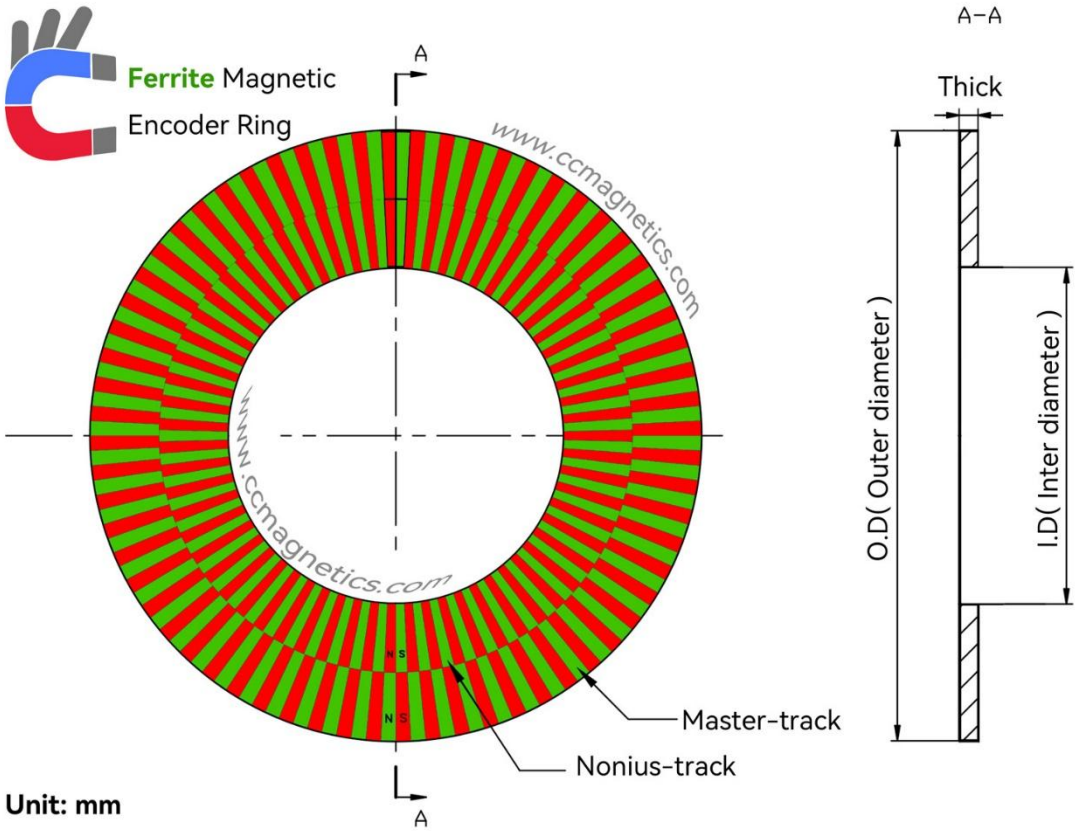
Description:

Ferrite encoder magnetic rings offer advantages such as low cost and high resolution. All magnetic rings strictly meet required accuracy and concentricity standards, with a consistent axial (Axial, Rotary) magnetization direction. Our products provide the following certifications:

- IATF16949 (issued by SGS)
- ISO9001 (issued by SGS)
- Management System Certificate (issued by DNV)

The ferrite magnetic targets listed on this page are compatible with sensors such as IC-MU, IC-MU128, and IC-MU150. Please note the following guidelines based on our experience:

- Thickness 1.4mm to 2mm: Can be used independently. Select a thickness within this range based on your needs.
- Thickness below 1.4mm: Ferrite encoder magnetic rings require a metal carrier for proper operation. Refer to the diagram below for details.



Parameter:

O.D (mm)	I.D (mm)	Thick (mm)	Master -track (Poles)	Nonius -track (Poles)	Comments	SKU
18	5.2	1.5	32	30	Pole pitch 1.5mm.	R0982
23	12	2	74	3	Pole pitch 0.8mm.	R0988
26	13.2	2	30	10	Dual-track magnetic disc.	R0622
26	13	2	30	10	Pole pitch 2.46mm	R0986
28.9	18.9	1.5	150	0	Single-track magnetic encoder disc.	R0657
29	15	1.5	64	62	Pole pitch 1.28mm, MU2S 30-32N, IC-MU.	R0987
30	18	1.5	64	62	Pole pitch 1.28mm, MU18S 30-32N, IC-MU.	R0983
32	24	1.5	44	0	Single-track encoder magnetic ring.	R0688
33	21	1.5	64	62	Pole pitch 1.5mm, MU36S 35-32N, IC-MU150.	R0981
33.5	20.4	1.5	64	62	Pole pitch 1.5mm.	R0706
33.5	21.5	1.5	64	62	Pole pitch 1.5mm.	R0707
34	20.4	2	64	62	Pole pitch 1.5mm.	R0709
34	20.4	1.5	64	62	Pole pitch 1.5mm.MU28S 34-32N, IC-MU150	R0710
34.5	22.5	1.5	64	62	Pole pitch 1.5mm.	R0718
36.8	26.8	1.5	200	0	Single-track magnetic encoder discs	R0731
42	28.5	1.45	128	0	Single-track magnetic encoder discs	R0749
42	27	1.45	64	62	Pole pitch 2mm.	R0750
44.2	34.7	1.5	48	0	Single-track magnetic encoder ring.	R0756
44.5	29	1.4	64	62	Pole pitch 2mm, MU37S 45-32N, IC-MU200	R0979
45.2	30	1.5	48	0	Single-track magnetic encoder discs	R0768
45.7	35.8	1.5	128	0	Pole pitch 2mm.	R0711
49	32.8	1.5	64	62	Pole pitch 2mm.	R0777
49	32	1.5	64	62	Pole pitch 2mm.	R0989
55	42	1.5	128	126	Pole pitch 1.28mm, MU35S 56-64N, IC-MU.	R0956
55	42.5	1.5	128	126	Pole pitch 1.28mm.	R0804
56	41	1.5	128	126	Pole pitch 1.28mm.	R0808

56	41.5	1.5	128	126	Pole pitch 1.28mm.	R0809
58	39	2.4	46	44	Pole pitch 3.6mm	R0984
63.7	51	2	128	126	Pole pitch 1.5mm.	R0827
64	53	2	128	126	Pole pitch 1.5mm.	R0830
65	51	2.4	128	126	Pole pitch 1.5mm.	R0751
65	45	5	128	126	Pole pitch 1.5mm.	R0831
84.5	70.5	2	128	126	Pole pitch 2mm, IC-MU200.	R0958

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's mission is to enable customers to purchase magnetic rings without incurring, or minimizing, mold costs. To date, CCmagnetics has made over 1000+ magnetic ring specifications publicly available. These magnetic rings are compatible with a wide range of IC sensors and can be adapted to most motors and magnetic encoders, offering exceptional value for money.

Image Captions:

1. Surface-mounted external magnetization coil for magnetizing motor encoder magnetic rings.
2. Planar multipole magnetization coil for magnetizing axial encoder magnetic rings.
3. Torsional multipole magnetization coil for magnetizing radial encoder magnetic

rings.

4. Embedded internal magnetization coil for magnetizing motor magnetic rings.
5. A delegation from a South Korean customer visits CCmagnetics.
6. CCmagnetics team conducts random inspections on encoder rings before shipment, regardless of size or quantity.

Image Captions:

1. CCmagnetics' encoder magnetic rings utilize automated dispensing equipment to ensure a stable bond between the magnetic ring and the metal carrier.
2. CCmagnetics' encoder magnetic rings can be adhered to customer-designed metal carriers, maximizing the use of internal robot space.
3. The encoder magnetic ring that supports any metal carrier has been widely recognized and praised by customers.
4. Vulcanized rubber encoder magnetic rings awaiting packaging and shipment to Germany for use in handling robots.

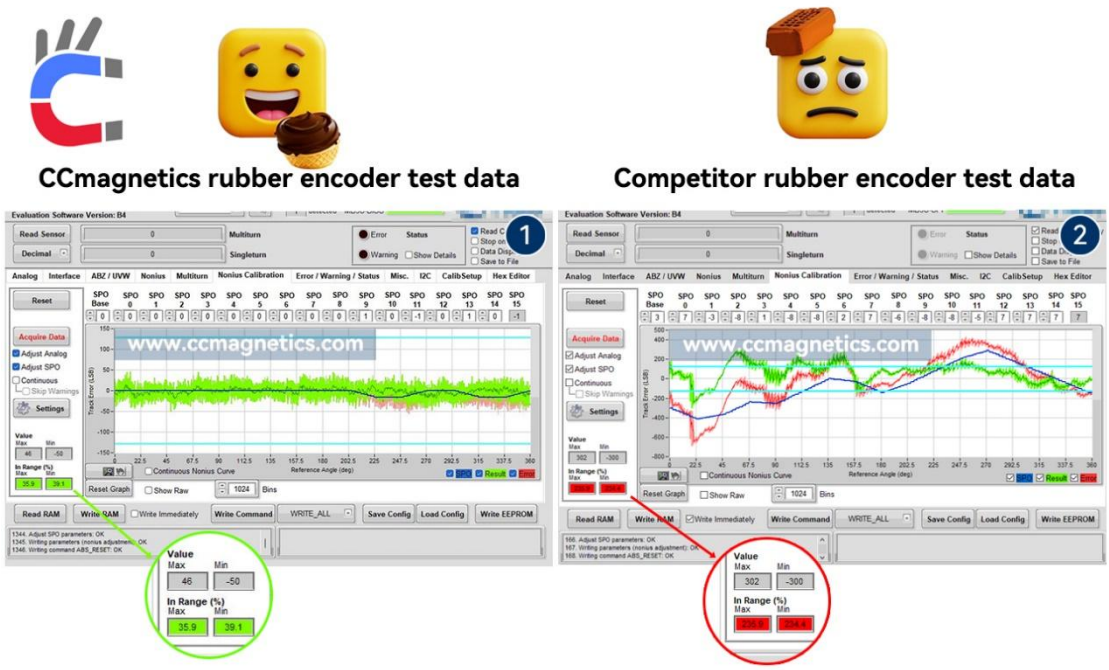


Image Captions:

1. CCmagnetics' encoder magnetic ring test performance is excellent. The magnetic ring for this encoder model requires an In-range percentage of less than 60% to pass. CCmagnetics has achieved a remarkable In-range percentage of 40% or below.

2. Screenshot of a competitor's encoder magnetic ring test: While the magnetic pole observation appears normal and the price is lower, these products are unusable.
Representative Patents

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: