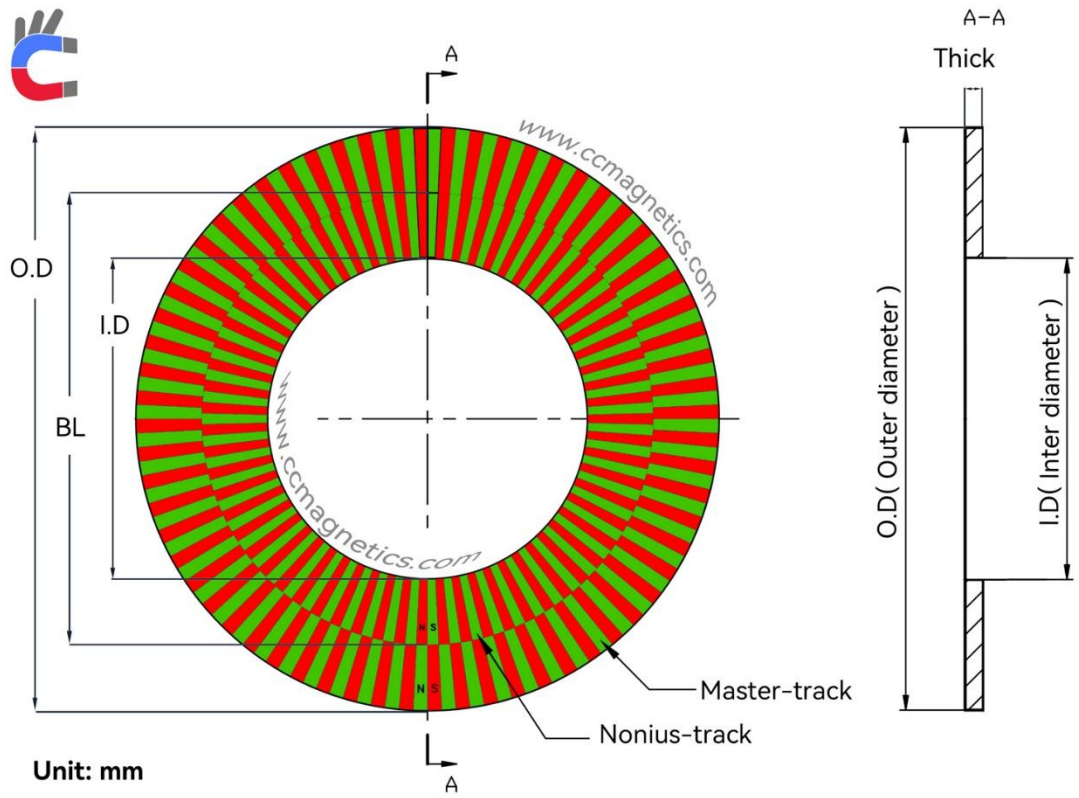
R0830 Ferrite Magnetic Encoder Ring

Designed for use with the iC-MU150 nonius encoder IC, this 2-track axial magnetic target is manufactured from hard ferrite. Compared to flexible rubber-based magnetic targets, the hard ferrite construction provides superior thermal stability (high-temperature resistance) and enhanced radiation tolerance. However, please note that its shock and impact resistance is lower than that of rubber alternatives.

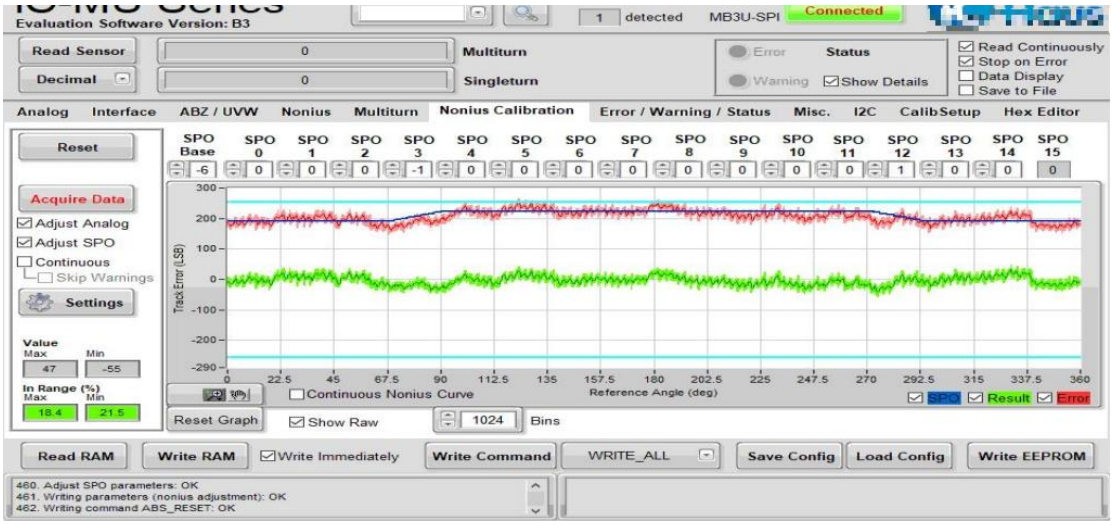
2-Track axial magnetic target for use with iC-MU150 nonius encoder iC
Bipolar magnetized
Number of pole pairs: master 64, nonius 63
Outer diameter 64 mm, for 53.0 mm shafts
Hard ferrite magnet material

Product Overview:



Item NO.	Parameter	Comments	Typ.	Tolerance	Unit
Physical Dimensions Disc					
O.D	Outer diameter of magnetic material		64	+0.00 -0.08	mm
I.D	Inner diameter of magnetic material		53	+0.00 -0.08	mm
Thic	Thickness of magnetic material		2	±0.02	mm
BL	Borderline master / nonius track		55.75		mm
Magnetic Material Characteristics					
Br	Remanence	Raw Material Properties	210-240		mT
bHc	Normal coercive force		127-159		kA/m
jHc	Intrinsic coercivity		≥267		kA/m
(BH)m	Maximum energy product		6.4-6.9		KJ/m³
T	Operating temperature		-40-250		℃

Product test screenshots:



About Us:

CCmagnetics®

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.

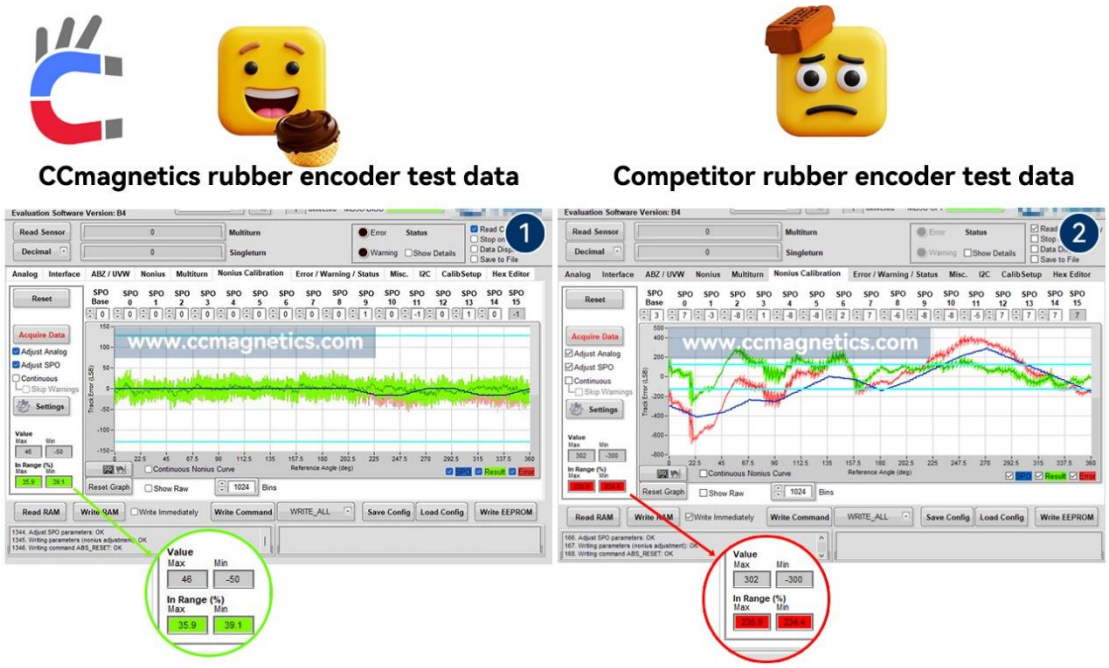


Image Captions:

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: