STANDARD & CUSTOM RINGS FOR INCREMENTAL AND ABSOLUTE APPLICATIONS

Lika Electronic designs and manufactures a **comprehensive range of magnetic rings, segmented rings, arcs, and curved structures**.
Our portfolio includes MRI and MRA standard rings for incremental and absolute measurement tasks as well as tailored rings designed to meet individual demands.
Dimensions (e.g. outer diameter, shaft diameter, ...), shapes (e.g. ring, arc, curved structure, ...), materials (e.g. structure: aluminium, stainless steel, ...; magnetic support: hard ferrite, elastomer bonded ferrite, vulcanized ferrite, plastoferrite, ...), mounting methods (e.g. with or without hub, installation by gluing, by press-fitting, ...), patterns (e.g. pseudo random code, special code pattern, ...), and application environments (e.g. installation in low/high temperatures, ...) can be evaluated from time to time in order to fit each application exactly.

The range includes the following features, among others:

- high quality materials offering excellent resistance to dust, moisture, cooling lubricants, oil, chemicals, temperature fluctuations, vibrations;
- axial and radial magnetization;
- Nonius rings compatible with Nonius sensors and readheads available in the market;
- precisely machined hubs for easy installation by gluing or press-fitting;
- customizable diameters up to 1,500 mm.

The **high-quality magnetization process is entirely performed in house using advanced magnetization lines.** It ensures high-precision coding and accuracy, is highly flexible and allows for large volume cost-effective productions as well as for small batches and custom productions.

Every ring is magnetized and tested singularly through multiple Write, Read, & Correct cycles until the desired result is achieved.
Our magnetization technology also allows to design virtually any type of magnetic pole (starting from 500 µm) in single or multitrack configurations and several accuracy classes, according to needs.

The incremental rings can be equipped with single track or multiple tracks with reference pole.
The absolute versions can pair the absolute track with incremental and/or reference pole tracks.
In addition, as stated, **the absolute code pattern can be customized** to answer specific requirements.