

# CUSTOMER REFERENCE

**SENIS**  
magnetic & current measurement

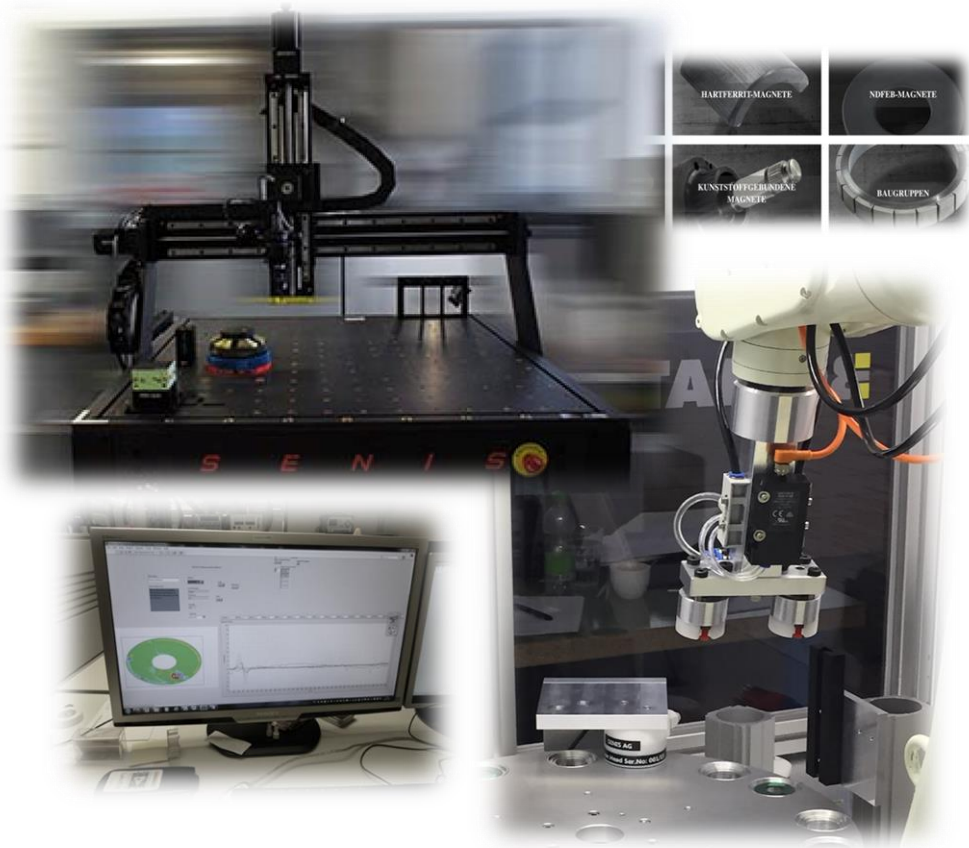
SENIS AG, Switzerland develops, manufactures and supplies advanced sensors and instruments for magnetic field and electric current measurement as well as the corresponding development and engineering services. Our solutions and services help our clients in the automotive, consumer electronics, test and measurement industries, as well as to research institutes to create powerful, robust and effective products.

SENIS® Magnetic Field Mapper MMS-1X-RS installed at Bomatec AG is a high-end magnetic field scanner that can be applied for mapping of all three components of DC or AC magnetic field. It can be used at customers in the R&D and as a quality assessment tool in production lines for accurate 3D mapping of permanent magnets.

SENIS® Defectoscope is a system of eddy current sensors, which efficiently detects the cracks and inhomogeneity in the magnetic materials and in non-magnetized blanks. Based on the inspection results and user-given tolerances, the Defectoscope automatically sorts-out BAD parts. The precisely adjusted mechanical system in combination with software modules, allows a seamless integration of eddy-current probes for an accurate detection of cracks in the production lines.

[www.senis.ch](http://www.senis.ch)

# BOMATEC



Bomatec AG ([www.bomatec.com](http://www.bomatec.com)) utilizes at their facilities in Switzerland, Malaysia and China several SENIS Magnetic Field and Material Crack Testing Systems for quality control of permanent magnets of different geometries and material.

Some of the magnetic tests offered by Bomatec are:

- Measurement of surface flux densities  $B_x$ ;  $B_y$ ;  $B_z$ , determination of the pole pitch error of multipolar magnets
- Measurement of linearity error (position error) of disc magnets for sensor applications
- Crack testing and detecting non-magnetic areas in unmagnetised permanent magnets

“Bomatec is not just a customer of SENIS, but our important technology and business partner over many years. By demanding very high performance, high quality and high stability that is required by their customers, Bomatec helped SENIS improving our magnetic field (MMS-1A-RS) and crack testing equipment (Defectoscope) to fulfil the highest automotive industry standards.”, says Sasa Spasic, the CEO of SENIS.