

Magnet Technologies

Bilfinger Noell is a leading provider of superconducting magnet systems. We develop and manufacture magnet systems for use in research and industry from single units to series.

Large-Scale Projects

Bilfinger Noell has supplied components for major international research projects, including the dipoles for the LHC at CERN and the non-planar coils for Wendelstein 7-X. For the FAIR project in Darmstadt, we are currently manufacturing 111 superconducting SIS 100 dipoles and assemble 83 quadrupole modules.

Industrial Applications

Bilfinger Noell provides superconducting magnet systems for use in industry. Cryogen-free technology enables new magnet applications in industrial environments and medical applications.

Customized Magnets

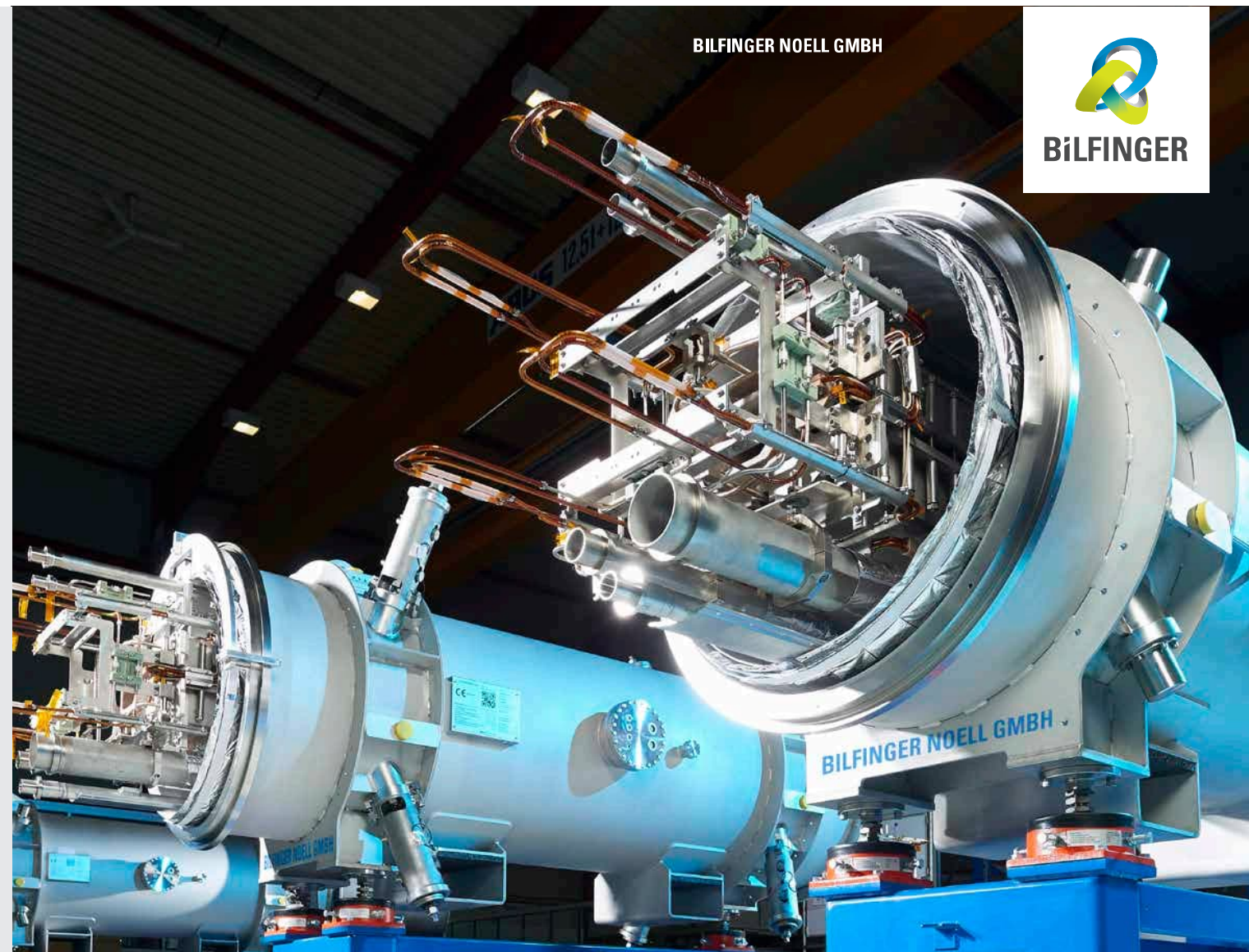
We realize individual solutions for our customers, from permanent magnetic to superconducting systems. In superconducting magnets, we have successfully applied NbTi and Nb₃Sn as well as advanced HTS tape conductors.

Superconducting Insertion Devices

We have launched superconducting insertion devices on the market together with KIT. Currently we are supplying insertion devices to ANSTO, Melbourne and the University of Delaware and NIST, USA and are now present on three continents worldwide. We can offer you the most powerful undulator or wiggler for your light source.

Cryogenics and Vacuum

Bilfinger Noell has an extended expertise in advanced engineering solutions such as the design and manufacturing of complex cryostats, vacuum vessels, UHV components and cryogenic test facilities.



Technologies

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