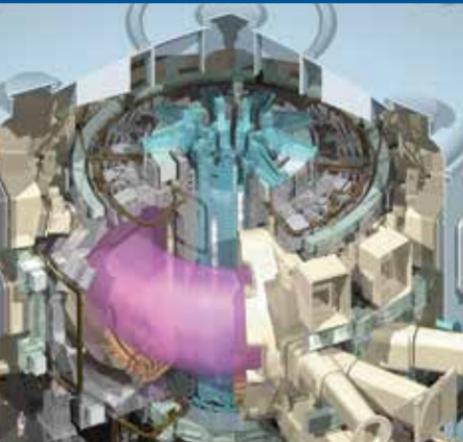


From research to industrial applications



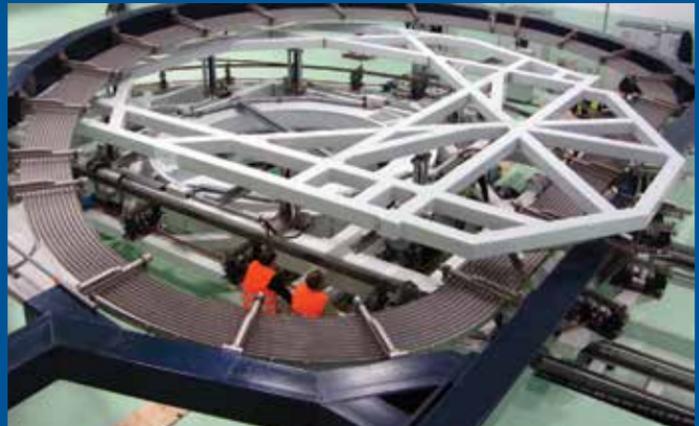
KNOWLEDGE
FOR
EVERYDAY LIFE
IMPROVEMENT



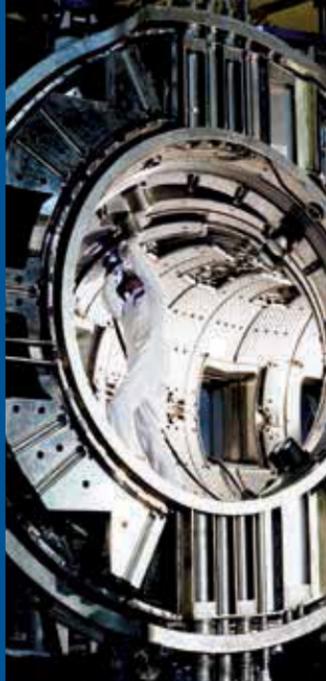
THE COMPANY



ASG Superconductors designs and manufactures resistive and superconducting magnet systems for research in the high-energy physics domain, thermonuclear fusion, energy and medical applications. Managers and technical personnel collaborate every day, in Italy and abroad, with leading companies in industry and with primary scientific research centers and institutions.



WHAT WE DO



Research, nuclear fusion, particle physics, energy and medical applications. ASG Superconductors offers its clients expertise in the design, development, production, installation and testing of superconducting and resistive magnetic systems, cryogenic systems, magnets for cyclotrons and components tailored to the customers' needs.



MAGNETS FOR ACCELERATORS AND RESEARCH APPLICATIONS



The services offered by ASG span from the conception of technical specifications to the industrialization, the commissioning and maintenance through to customer's personnel training: ASG is currently Europe's main builder of magnets for particle accelerators and for applications related to basic research in high-energy physics. Built to offer exceptional performance - like, for example, the magnets for the CMS and ATLAS detectors - the magnets designed and realized by ASG testify to our ability to meet the needs of the research world and so contributing to the achievement of important scientific goals, like - most recently - the discovery of the Higgs Boson.



The production of clean energy through nuclear fusion is a key challenge facing researchers and industries searching for ways to reconcile the energy needs of the modern world with respect for the environment. ASG - in its role as a supplier of magnets - is a key player in ITER (Europe) and JT-60SA (Japan) projects, the two main research programs studying the feasibility of producing clean energy by replicating the process that powers the sun and stars. ASG contributes to these projects not only through supplying magnets and services but also through prototyping and research and development activities aimed at evaluating the feasibility of systems and/or the characterization of materials or production processes.

MAGNETS
FOR NUCLEAR
FUSION



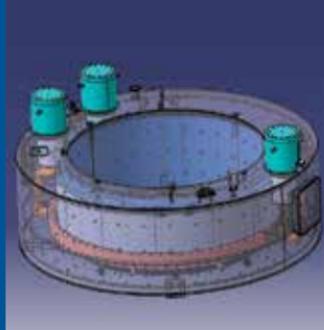


MAGNETS FOR MEDICAL RESEARCH



Superconducting technologies are increasingly being used in medical diagnostics and oncologic therapy as well as in hadron therapy treatments for various types of tumor. Capitalizing on skills and experiences derived from industrial collaborations, ASG is able to design and build either superconducting or copper magnets for medical diagnostics, accelerators, radiation and hadron therapy. ASG, together with its subsidiary Paramed Medical Systems, has developed an open-sky magnetic resonance (MRI) system that does not make use of cryogenic fluids, reduces the perception of claustrophobia and allows for load-bearing imaging of the patient's musculoskeletal system.

MAGNETS FOR ENERGY



Industry and utilities are looking with increasing interest to innovations implying the use of superconducting technology, in particular in the transport, and storage of energy and in the protection of the grid infrastructure. ASG is active in the development and production of Fault Current Limiters (FCL) used by utilities for the stabilization of energy grids and the prevention of blackouts. ASG Superconductors' current limiters can use both superconducting (LTC, MgB_2 , BSSCO) and standard technology, according to specific grid or customer needs. ASG also produces coils and magnetic systems for Superconducting Magnetic Energy Storage (SMES), used to stabilize load fluctuations in electric grids or to guarantee power quality for specific industrial applications.





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