

Superconducting Magnets: Market Research Report

<https://marketpublishers.com/r/SDAB961E22AEN.html>

Date: August 2011

Pages: 254

Price: US\$ 4,800.00 (Single User License)

ID: SDAB961E22AEN

Abstracts

This report analyzes the worldwide markets for Superconducting Magnets in US\$ Million.

The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Rest of World.

Annual estimates and forecasts are provided for the period 2009 through 2017.

Also, a six-year historic analysis is provided for these markets.

The report profiles 32 companies including many key and niche players such as Advanced Magnet Lab, Inc., Agilent Technologies, Inc., American Magnetics, Inc., ASG Superconductors S.p.A, Babcock Noell GmbH, Bruker Energy & Supercon Technologies Inc., Eriez Manufacturing Co., Evico GmbH, General Electric Co., Hitachi Ltd., Janis Research Company, Inc., Luvata Pori OY, Oxford Instruments Plc, Scientific Magnetics, Siemens AG, Sumitomo Electric Industries, Ltd., and SuperPower, Inc.

Market data and analytics are derived from primary and secondary research.

Company profiles are mostly extracted from URL research and reported select online sources.

Contents

1.INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definitions and Scope of Study

2.INDUSTRY OVERVIEW

Superconducting Magnets: At the Forefront of a New Era of Practical Usage

Analytical Instruments – Largest End Use Segment

Electrified Transportation: Future & Present Potential

Superconductors Skirt Recessionary Pressures

Outlook

Noteworthy Market Trends & Issues

Growing Penetration in New Markets Drive Future Prospects

Technology Developments – Key to Success

Developing Markets to Turbo Charge Future Growth

Industry Awaits the Arrival of New Generation of Super Powerful Magnets

Research Institutions - Exploiting New Applications and Techniques

Environmental Protection Drives the Popularity of Superconductors

Rising MRI Market to Facilitate Growth of Superconducting Magnets

Superconducting Magnetic Storage Systems to Witness Robust Growth

The Concept of Cryogen Free Superconducting Magnets

Increasing Popularity of Cryogen-Free Superconducting Magnets

Criticism Hounding Use of Cryogen-Free Superconducting Magnets in Industrial Applications

Obstacles in Superconducting Magnets Manufacturing

Competitive Landscape

3.PRODUCT OVERVIEW

Superconductivity: An Overview

Critical Temperatures of Select Superconductors

Superconducting Magnets

Historical Background

Advantages

Working of Superconducting Magnet

4.OVERVIEW OF END-USE APPLICATIONS

A Primer

Major End-Use Applications

Applications in Medical Diagnostics

Superconductors in MRI

Superconductors in Magnetoencephalography

Applications in NMR

Applications in High Energy Physics and Research

LHC at Geneva- Largest Particle Accelerator

Applications in Electric Power

Superconducting Magnetic Energy Storage

Applications in Transportation

Magnetically Levitated Trains

Industrial Applications

Superconducting Magnets in Space Applications

5.RECENT INDUSTRY ACTIVITY

Scott Technology Acquires Major Shares in HTS-110 Limited

Agilent Concludes Acquisition of Varian

Janis Research Announces Series of 3T Superconducting Magneto-Optical Micro-Manipulated Probe System

NHMFL to Build YBCO Magnet

Florida State University Selects Bruker Daltonics to Develop 21.0 Tesla FT-ICR Magnet

IBA Signs Sales Agreement with Cyclhad

Bruker Enters into Cooperation Agreement with PVA TePla

Oxford Instruments Receives Superconducting Magnets Order

BlueFors Cryogenics and Scientific Magnetics to Supply ULT and Superconducting Magnet System

Quantum Design Launches Cryogen-free Material Characterization System

Bruker Advanced Supercon Takes Over Research Instrument Portion of ACCEL

Advanced Magnet Lab Completes Test of Superconducting Magnet

Luvata Enters into Collaboration with Business Partners, Universities and Others for SMES Project

Fusion for Energy Awards Niobium-Tin Supply Contract to Bruker

Technical University of Munich Selects Scientific Magnetism for Superconducting Magnet System

Cryomagnetics Takes Over Cryoconcept

Bruker and IFW Enter into Cooperation Agreement to Further Develop MgB₂ Superconducting Wire

Oxford Instruments Attains 22 Teslas in Fully Superconducting Magnet

Scientific Magnetism Completes Assembly of AMS-02 Superconducting Magnet

Pantech Selects Scientific Magnetism to Supply Superconducting Magnet

6.FOCUS ON SELECT PLAYERS

Advanced Magnet Lab, Inc. (US)

Agilent Technologies, Inc (US)

American Magnetism, Inc. (US)

ASG Superconductors S.p.A. (Italy)

Babcock Noell GmbH (Germany)

Bruker Energy & Supercon Technologies Inc (US)

Eriez Manufacturing Co. (US)

Evico GmbH (Germany)

General Electric Co. (US)

Hitachi Ltd. (Japan)

Janis Research Company, Inc. (US)

Luvata Pori OY (Finland)

Oxford Instruments Plc (UK)

Scientific Magnetism (UK)

Siemens AG (Germany)

Sumitomo Electric Industries, Ltd. (Japan)

SuperPower, Inc. (US)

7.GLOBAL MARKET PERSPECTIVE

Table 1. World Recent Past, Current and Future Analysis for Superconducting Magnets by Geographic Region – US, Canada, Japan, Europe, Asia-Pacific, Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 2. World Historic Review for Superconducting Magnets by Geographic Region – US, Canada, Japan, Europe, Asia-Pacific, Latin America and Rest of World Markets

Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

Table 3. World 15-Year Perspective for Superconducting Magnets by Geographic Region – Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific, Latin America and Rest of World Markets for Years 2003, 2010 and 2017 (includes corresponding Graph/Chart)

8.UNITED STATES

A. MARKET ANALYSIS

Current & Future Analysis

Market Overview

Role of Government

B. MARKET ANALYTICS

Table 4. US Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 5. US Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

9.CANADA

Market Analysis

Table 6. Canadian Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 7. Canadian Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

10.JAPAN

A. MARKET ANALYSIS

Current & Future Analysis

Market Overview

B. MARKET ANALYTICS

Table 8. Japanese Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 9. Japanese Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

11.EUROPE

A. MARKET ANALYSIS

Current & Future Analysis

Market Overview

B. MARKET ANALYTICS

Table 10. European Recent Past, Current and Future Analysis for Superconducting Magnets by Geographic Region – France, Germany, Italy, UK, and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 11. European Historic Review for Superconducting Magnets by Geographic Region – France, Germany, Italy, UK, and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

Table 12. European 15-Year Perspective for Superconducting Magnets by Geographic Region – Percentage Breakdown of Dollar Sales for France, Germany, Italy, UK, and Rest of Europe Markets for Years 2003, 2010 and 2017 (includes corresponding

Graph/Chart)

11A.FRANCE

Market Analysis

Table 13. French Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 14. French Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

11B.GERMANY

Market Analysis

Table 15. German Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 16. German Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

11C.ITALY

Market Analysis

Table 17. Italian Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 18. Italian Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

11D.THE UNITED KINGDOM

Market Analysis

Table 19. UK Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 20. UK Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

11E.REST OF EUROPE

Market Analysis

Table 21. Rest of Europe Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 22. Rest of Europe Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

12.ASIA-PACIFIC

Market Analysis

Table 23. Asia-Pacific Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 24. Asia-Pacific Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

13.LATIN AMERICA

Market Analysis

Table 25. Latin America Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 26. Latin America Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

14.REST OF WORLD

Market Analysis

Table 27. Rest of World Recent Past, Current and Future Analysis for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

Table 28. Rest of World Historic Review for Superconducting Magnets Analyzed with Annual Sales in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

Total Companies Profiled: 32 (including Divisions/Subsidiaries - 37)

Region/CountryPlayers

The United States

Japan

Europe

France

Germany

The United Kingdom

Italy

Spain

Rest of Europe

Asia-Pacific (Excluding Japan)

I would like to order

Product name: Superconducting Magnets: Market Research Report

Product link: <https://marketpublishers.com/r/SDAB961E22AEN.html>

Price: US\$ 4,800.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SDAB961E22AEN.html>