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Global Markets for Spark Plasma Sintering and Other Advanced Sintering Technologies

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Abstracts

REPORT SCOPE

This report provides an updated review of spark plasma sintering and other types of advanced sintering technologies giving a description of basic equipment configurations. It also identifies current and emerging applications for these technologies.

BCC Research delineates the current market status for AST systems, defines trends and presents growth forecasts for the next five years. The market is analyzed based on the following segments: equipment type, application and region. In addition, technological issues, including key events and the latest process developments, are discussed.

More specifically, the market analysis conducted by BCC Research for this report is divided into five sections.

In the first section, an introduction to the topic and a historical review of spark plasma sintering and other advanced sintering technologies are provided, including an outline of recent events. In this section, a brief introduction to the numerous applications of these technologies is also offered.

The second section provides a technological review of spark plasma sintering and other advances in sintering technologies. This section offers a current description of various systems; typical materials processed by these apparatuses; technological trends in sintering technologies; and new and emerging applications. This section concludes with an analysis of the most important technological developments since 2015, including examples of significant patents recently issued or applied for, as well as highlighting the

most active research organizations operating in this field.

The third section entails a global market analysis of AST systems. Global revenues (sales data in millions of dollars) are presented for each segment (equipment type, application and region), with actual data referring to the years 2015 and 2016 and estimates for 2017. Dollar figures refer only to equipment sales at the manufacturing level and do not include related services and maintenance activities.

The analysis of current revenues is followed by a detailed presentation of market growth trends, based on industry growth, and industry and regional trends. The third section concludes by providing projected revenues for AST systems within each segment, together with forecast compound annual growth rates (CAGRs) for the period of 2017 through 2022.

In the fourth section of the study, which covers global industry structure, the report offers a list of the leading suppliers and developers of AST equipment, together with a description of their products. The analysis includes a description of the geographical distribution of these firms and an evaluation of other key industry players. Detailed company profiles of the top players are also provided.

The fifth and final section includes an analysis of recently issued U.S. and international patents, with a summary of patents related to advanced sintering technologies, materials, equipment and applications. A patent analysis is performed by region, country, assignee, patent category, material type, process type and application.

REPORT INCLUDES

32 data tables and 12 additional tables

An overview of the global market for spark plasma sintering (SPS) and other advanced sintering technologies

Analyses of global market trends, with data from 2015, 2016, 2017, and projections of compound annual growth rates (CAGRs) through 2022

Discussion of the current and emerging requirements posed by advancements within the ceramics industry

Coverage of milestones in the history of spark plasma sintering and other

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advanced sintering technologies

Descriptions of the geographical distribution of manufacturers

Detailed company profiles of top industry players in the market, including ALD Vacuum Technologies, EOS, FCT Systeme, Gasbarre Products, Linn High Therm, PVA Tepla Group, and Simuwu

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FORMLABS
FUJI ELECTRONIC INDUSTRIAL
GASBARRE PRODUCTS
KOYO THERMO SYSTEMS

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MATSUURA MACHINERY
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COMPANIES MENTIONED

3D Systems
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ECM TECHNOLOGIES
EOS
FARSOON TECHNOLOGIES
FCT SYSTEME
FORMLABS
FUJI ELECTRONIC INDUSTRIAL
GASBARRE PRODUCTS
KOYO THERMO SYSTEMS
LINN HIGH THERM
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