

Isostatic Pressing Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global isostatic pressing market size reached US\$ 6.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.8 Billion by 2028, exhibiting a growth rate (CAGR) of 4.83% during 2023-2028.

Isostatic pressing (IP) refers to the process of forming powder metallurgy (PM) used for improving the porosity of metals. It includes hot and cold isostatic pressing (H/CIP) that involve the uniform application of pressurized water, oil or gas on powder compact to achieve consistent density and microstructure without geometrical limitations. Hot IP is used for merging titanium alloys and superalloys under high temperatures by solid-state diffusion. On the other hand, cold IP is used for compressing large-sized and complex components at ambient temperatures. These processes can also be used on ceramic balls, fuse and lighting tubes and spark plug insulators. As a result, IP processes find extensive applications across various industries, including automotive, aerospace, medical, energy and electronics.

Isostatic Pressing Market Trends:

Significant growth in the aviation industry across the globe is one of the key factors creating a positive outlook for the market. IP is widely used for the manufacturing of defect-free components for tanks, artillery, military and private aircraft and spacecraft. HIP processes are also utilized for pressure-assisted brazing and fabrication of metal matrix composites. Moreover, the widespread adoption of additive manufacturing (AM) for combining ceramics and plastics is providing a thrust to the market growth. Additionally, the utilization of three-dimensional (3D) computer-aided design (CAD) modeling solutions is acting as another growth-inducing factor. CAD is widely used with metal injection molding (MIM), HIP and CIP processes for reducing porosity levels in 3D

printing and enhancing flexibility and customizability. Other factors, including rapid industrialization, along with extensive research and development (R&D) activities in the field of precision manufacturing, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global isostatic pressing market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, offering and application.

Breakup by Type:

- Hot Isostatic Pressing
- Cold Isostatic Pressing

Breakup by Offering:

- Services
- Systems

Breakup by Application:

- Automotive
- Aerospace and Defense
- Medical
- Precision Machine Manufacturing
- Energy and Power
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India

South Korea
Australia
Indonesian
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Bodycote, Dorst Technologies GmbH & Co. KG, EPSI, Fluitron Inc., FREY & Co. GmbH, Hiperbaric, H?gan?s AB, Isostatic Pressing Services, Kobe Steel Ltd., MTI Corporation, Nikkiso Co. Ltd. and Pressure Technology Inc.

Key Questions Answered in This Report

1. What was the size of the global isostatic pressing market in 2022?
2. What is the expected growth rate of the global isostatic pressing market during 2023-2028?
3. What are the key factors driving the global isostatic pressing market?
4. What has been the impact of COVID-19 on the global isostatic pressing market?
5. What is the breakup of the global isostatic pressing market based on the type?
6. What is the breakup of the global isostatic pressing market based on the offering?
7. What is the breakup of the global isostatic pressing market based on the application?
8. What are the key regions in the global isostatic pressing market?
9. Who are the key players/companies in the global isostatic pressing market?

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