

Global Magnetic Fluid Feedthroughs Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Magnetic Fluid Feedthroughs market size was valued at US\$ 280 million in 2024 and is forecast to a readjusted size of USD 393 million by 2031 with a CAGR of 5.0% during review period.

Under the condition of shaft rotation, a magnetic fluid feedthrough (or called magnetic fluid seal) provides a hermetic seal against both vacuum and gas. A magnetic loop consists of the magnet, poles and the shaft. Several stages of liquid 'O-ring' are formed by the gathering of the magnetic fluid between the poles and the shaft in the presence of magnetic field. Each stage can sustain a pressure of 0.2kgf/cm². There are normally 10 to 20 stages in the sealing part of the feedthrough. Taking advantage of the superparamagnetic and liquid properties of magnetic fluid, there is no mechanical wear, even at very high rotary speed of the shaft. The magnetic fluid feedthrough is an Ultimate Sealing Component with a long life time. It can be used to sustain pressures from both positive and negative direction.

Currently the global Magnetic Fluid Feedthroughs (Magnetic fluid seals) market is dominated by Japanese manufacturers of Ferrotec, NOK, Moretec Inc, Pfeiffer Vacuum and KSM, etc.

Semiconductor is the market, hold a share over 40%.

The global market for semiconductor was estimated at US\$ 526.8 billion in the year 2023, is projected to US\$ 780.7 billion by 2030. IC Manufacturing is the process used to manufacture semiconductor devices, typically integrated circuits (ICs) such as computer processors, microcontrollers, and memory chips (such as NAND flash and DRAM).

According to our research, the global semiconductor manufacturing (wafer fabrication) market is projected to grow from US\$ 251.7 billion in 2023 to US\$ 506.5 billion by 2030, at a Compound Annual Growth Rate (CAGR) of 40.49% during the forecast period. This will drive rapid growth of global Magnetic Fluid Feedthroughs.

This report is a detailed and comprehensive analysis for global Magnetic Fluid Feedthroughs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Magnetic Fluid Feedthroughs market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Magnetic Fluid Feedthroughs market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Magnetic Fluid Feedthroughs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Magnetic Fluid Feedthroughs market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Magnetic Fluid Feedthroughs
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Magnetic Fluid Feedthroughs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include Ferrotec, NOK, Moretec Inc, Htc vacuum, Pfeiffer Vacuum, KSM, Eagle Industry, Fermi Instruments, VacSol GmbH, Kurt J. Lesker Company, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Magnetic Fluid Feedthroughs market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Magnetic Rotary Feedthrough

Magnetic Linear Feedthrough

Magnetic Linear-Rotary Feedthrough

Market segment by Application

Semiconductor Processing Equipment

Industrial Equipment

Power Generation Measurement and Control

Photovoltaics

Display & LED

Others

Major players covered

Ferrotec

NOK

Moretec Inc

Htc vacuum

Pfeiffer Vacuum

KSM

Eagle Industry

Fermi Instruments

VacSol GmbH

Kurt J. Lesker Company

IRIE KOKEN CO.,LTD

MDC Precision

Allectra

National Electrostatics Corp.

Thermionics Laboratory

Applied Nano Technology Science, Inc. (ANTS)

Rigaku Holdings

Inficon

CeramTec

FerroLabs, Inc.

MPF Products, Inc.

Magron

ANZ Corporation

Vic Ferrofluidics Co., Ltd

Hefei Anze Welding Ripple Tube

Hangzhou Vigor Magnetic&Electronic Technology

Zigong Zhaoqiang Sealing Products Industrial

Beijing Shenran Magnetism Fluid Technology

Zhejiang Jingsheng Mechanical and Electrical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Magnetic Fluid Feedthroughs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetic Fluid Feedthroughs, with price, sales quantity, revenue, and global market share of Magnetic Fluid Feedthroughs from 2020 to 2025.

Chapter 3, the Magnetic Fluid Feedthroughs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

landscape contrast.

Chapter 4, the Magnetic Fluid Feedthroughs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Magnetic Fluid Feedthroughs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Magnetic Fluid Feedthroughs.

Chapter 14 and 15, to describe Magnetic Fluid Feedthroughs sales channel, distributors, customers, research findings and conclusion.

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