

Global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

IGBT aims to deliver faster switching rate and higher efficiency to enable proper operations at high voltage or high current. In addition, it can be used for dynamic braking, where the power is dissipated by resistors that are connected in parallel or in series. It is widely used in high power rating applications, which include electric vehicle motor drives, inductive heating cookers, and appliance motor drives.

According to our (Global Info Research) latest study, the global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

IGBT is widely used in various applications such as renewable energy, high voltage direct current (HVDC), motor drive, and consumer electronics, owing to its faster switching rate, high efficiency, and improved durability. Moreover, it supports high input impedance and improved parallel current sharing; thereby, fueling the market growth. However, performance issues, such as current leakage and breakdown, hamper the market growth. Proactive government initiatives to establish HVDCs & smart grids and increase in demand for consumer electronic are expected to provide lucrative opportunities to market players in the near future.

This report is a detailed and comprehensive analysis for global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor 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 2023, are provided.

Key Features:

Global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

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 Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio,

geographical presence, and key developments. Key companies covered as a part of this study include Fairchild Semiconductor International Inc, STMicroelectronics, ABB Ltd, Hitachi Power Semiconductor Device Ltd and Toshiba Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market is split by Type and by Application. For the period 2018-2029, 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

High Voltage

Medium Voltage

Low Voltage

Market segment by Application

Consumer Electronics

Inverter & UPS

Electric Vehicle

Industrial System

Others (Medical Devices & Traction)

Energy & Power

Major players covered

Fairchild Semiconductor International Inc

STMicroelectronics

ABB Ltd

Hitachi Power Semiconductor Device Ltd

Toshiba Corporation

Mitsubishi Electric Corporation

Infineon Technologies AG

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 Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor, with price, sales, revenue and global market share of Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor from 2018

to 2023.

Chapter 3, the Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor.

Chapter 14 and 15, to describe Insulated Gate Bipolar Transistors and Metal Oxide Field Effect Transistor sales channel, distributors, customers, research findings and conclusion.

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