

Global Overfrequency Ultrasonic Generator Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G181D0B87503EN.html>

Date: September 2025

Pages: 118

Price: US\$ 3,132.00 (Single User License)

ID: G181D0B87503EN

Abstracts

According to our (Global Info Research) latest study, the global Overfrequency Ultrasonic Generator market size was valued at US\$ 81.9 million in 2024 and is forecast to a readjusted size of USD 115 million by 2031 with a CAGR of 5.0% during review period.

An overclocked ultrasonic generator is a device that converts mains electricity (usually 220V or 380V, 50Hz or 60Hz) into a high-frequency AC signal that matches the ultrasonic transducer. This high-frequency AC signal is used to drive the ultrasonic transducer to work, thereby generating ultrasonic vibrations. The working principle of the overclocked ultrasonic generator involves signal generation and amplification. First, a signal generator generates a signal of a specific frequency, which can be a sinusoidal signal or a pulse signal, and the frequency of the signal matches the resonant frequency of the ultrasonic transducer. Then, the signal is amplified by a power amplifier to generate a sufficiently strong drive signal to drive the ultrasonic transducer. After the transducer receives the high-frequency AC signal, it converts it into high-frequency mechanical vibrations to generate ultrasonic waves.

This report is a detailed and comprehensive analysis for global Overfrequency Ultrasonic Generator 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 Overfrequency Ultrasonic Generator market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

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

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

Global Overfrequency Ultrasonic Generator market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Overfrequency Ultrasonic Generator

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 Overfrequency Ultrasonic Generator 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 Sonics & Materials, NDT Systems, Telsonic, Meggitt, Physik Instrumente, D?RR NDT, Misonix, Emerson, Hielscher Ultrasonics, Shanghai Jingxin Industrial Development, etc.

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

Market Segmentation

Overfrequency Ultrasonic Generator 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

Digital Display

Non-digital Display

Market segment by Application

Industrial

Medical

Agriculture

Others

Major players covered

Sonics & Materials

NDT Systems

Telsonic

Meggitt

Physik Instrumente

D?RR NDT

Misonix

Emerson

Hielscher Ultrasonics

Shanghai Jingxin Industrial Development

Beijing Oksultrasonic

Jining Aochao Electronic Equipment

Foshan Pulisen Ultrasonic Technology

Tips Technology

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 Overfrequency Ultrasonic Generator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Overfrequency Ultrasonic Generator, with price, sales quantity, revenue, and global market share of Overfrequency Ultrasonic Generator from 2020 to 2025.

Chapter 3, the Overfrequency Ultrasonic Generator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Overfrequency Ultrasonic Generator 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 Overfrequency Ultrasonic Generator 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 Overfrequency Ultrasonic Generator.

Chapter 14 and 15, to describe Overfrequency Ultrasonic Generator sales channel, distributors, customers, research findings and conclusion.

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