

# Global Resolvers 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 Resolvers market size was valued at US\$ 653 million in 2024 and is forecast to a readjusted size of USD 1709 million by 2031 with a CAGR of 14.9% during review period.

A Resolver is an electromagnetic transducer (also called angle sensor), consists of a stator and a rotor that outputs rotational angles as two-phase AC voltages (analog signals). It features structurally high environmental resistance compared to other sensors due to its simple design comprised of only an iron core and a coil.

The most common type of resolver is the brushless transmitter resolver. On the outside, this type of resolver may look like a small electrical motor having a stator and rotor. On the inside, the configuration of the wire windings makes it different.

The stator portion of the resolver houses three windings: an exciter winding and two two-phase windings. The exciter winding is located on the top; it is a coil of a turning (rotary) transformer. This rotary transformer induces current in the rotor without wires or brushes to provide a direct electrical connection. The two other windings are on the bottom, wound on a lamination. They are configured at 90 degrees from each other. The rotor houses a coil, which is the secondary winding of the turning transformer, and a separate primary winding in a lamination, exciting the two two-phase windings on the stator. The primary winding of the transformer, fixed to the stator, is excited by a sinusoidal electric current, which by electromagnetic induction induces current in the rotor. As these windings are arranged on the axis of the resolver, the same current is induced no matter what its position. This current then flows through the other winding on the rotor, in turn inducing current in its secondary windings, the two-phase windings back on the stator. The two two-phase windings, fixed at right (90°) angles to each

other on the stator, produce a sine and cosine feedback current. The relative magnitudes of the two-phase voltages are measured and used to determine the angle of the rotor relative to the stator. Upon one full revolution, the feedback signals repeat their waveforms. It can be used in a wide variety of position and velocity feedback applications which includes light duty/servo, light industrial or heavy duty applications.

The global key manufacturers of Resolvers include Tamagawa Seiki, MinebeaMitsumi, Shanghai Yingshuang Electric Machinery, Hengstler, Moog, etc. The global top five players had a share approximately 62%.

In terms of product type, Brushless Resolver occupy the largest share of the total market. And in terms of application, automobile is the largest application, accounting for 69%.

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

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

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

Global Resolvers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/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 Resolvers

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 Resolvers 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 Tamagawa Seiki, MinebeaMitsumi, Shanghai Yingshuang Electric Machinery, Hengstler, Moog, Ametek, LTN Servotechnik, TE Connectivity, Woodward, Honeywell, etc.

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

## Market Segmentation

Resolvers 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

Brushless Resolver

Brushed Resolver

### Market segment by Application

Automobile

Industrial Machinery & Equipment

Aerospace & Defense

Others

Major players covered

Tamagawa Seiki

MinebeaMitsumi

Shanghai Yingshuang Electric Machinery

Hengstler

Moog

Ametek

LTN Servotechnik

TE Connectivity

Woodward

Honeywell

General Dynamics

Maxon Motor

Beijing Victory Electric

Changzhou Huaxuan Sensing 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 Resolvers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Resolvers 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 Resolvers 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 Resolvers.

Chapter 14 and 15, to describe Resolvers sales channel, distributors, customers, research findings and conclusion.

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