

Global Gravity Based Testing and Sorting Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Gravity Based Testing and Sorting Machine market size was valued at US\$ 208 million in 2025 and is forecast to a readjusted size of US\$ 299 million by 2032 with a CAGR of 5.4% during review period.

Gravity Based Testing and Sorting Machine uses the gravity of the semiconductor device itself and external compressed air as the driving force for device movement. The device moves along the track of the sorter from top to bottom. While the semiconductor is moving, each component of the sorter will complete the entire testing process. The advantages of this type of sorting machine are that the equipment has a simple structure, is easy to maintain and operate; has stable production performance and low failure rate. The disadvantage is that because the device is driven by gravity, the hourly output of the equipment is relatively low; and the hardware structure of this type of sorter also causes the equipment to be unable to support the testing of relatively small products and special packaging types such as ball grid array packaging. In 2024, global Gravity Based Testing and Sorting Machine production reached approximately 2,193 units, with an average global market price of around K US\$ 87.34 per unit.

The annual production capacity of gravity based testing and sorting machine is 3,000 units, with a gross profit margin of about 30%. The upstream mainly includes precision mechanical parts and sheet metal parts, linear motors and servo systems, motion control cards, industrial PCs and PLCs, power supplies and I/O modules, ATE test machine interface boards and test sockets, vision and sensors, temperature control and constant temperature chambers, pneumatic and vacuum components, as well as supporting processing such as cables, cabinets and spraying. The downstream is

connected to IDM and OSAT packaging and testing plants, and is divided into logic IC, analog IC, power devices, memory, Different product lines, such as automotive and industrial chips, are deployed in the mid-test, final test and reliability screening sections, and serve end industries such as consumer electronics, automotive electronics, industrial power supplies, new energy and data centers through these customers. From a cost structure perspective, the material BOM (mechanism, servo and control, electrical, temperature control, fixtures and fixtures, etc.) generally accounts for 55% to 70% of the total machine cost, and assembly and joint debugging, on-site installation acceptance and training account for about 10% to 15%.

Gravity test sorting machines are currently in the development stage of 'mainly mature stocks, supplemented by structural upgrades'. They are still the main handler form in the fields of small-signal discrete devices, small-package analog ICs and some low-power MOSFETs. It is expected that the overall demand will remain stable or slightly increase with the shipment of discrete devices and mid-to-low-end analog chips. On the one hand, Under the pressure of continuous decline in single unit price and packaging and testing cost pressure, downstream companies pay more attention to the UPH, failure rate and unit test cost of equipment, pushing gravity sorters to evolve towards higher cycle times, lower maintenance, support for Tape & Reel direct output, and deep integration with ATE, MES, and barcode traceability. On the other hand, automotive regulations, industrial regulations and The penetration of some power devices has led to an increase in the proportion of high-temperature and even three-temperature gravity test sorting machines, and modules such as simple aging and visual appearance inspection have been gradually superimposed to form an integrated platform; from the perspective of the competition landscape, normal-temperature general gravity models have basically been domestically produced in China, with fierce price competition and a downward shift in gross profit margins. In terms of current and high-reliability applications, a few manufacturers in Europe, the United States and Japan still maintain technological advantages, while local manufacturers are gradually penetrating into the mid-to-high end through platform design, in-depth integration with local packaging and testing factories, and strengthening the software and fixture ecosystem. The overall trend is of 'moderate total volume, low-end involution, high-end concentration towards high-temperature three-temperature and intelligence, and continued advancement of local substitution.'

This report is a detailed and comprehensive analysis for global Gravity Based Testing and Sorting Machine 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 Gravity Based Testing and Sorting Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Gravity Based Testing and Sorting Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Gravity Based Testing and Sorting Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Gravity Based Testing and Sorting Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 Gravity Based Testing and Sorting Machine

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 Gravity Based Testing and Sorting Machine 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 Cohu, Inc. (Xcerra & MCT), Changchuan Technology, Advantest, Hon Precision, Shenkeda Semiconductor, Boston Semi Equipment, EXIS TECH, SRM Integration, Shanghai Yingshuo, TESEC

Corporation, etc.

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

Market Segmentation

Gravity Based Testing and Sorting Machine market is split by Type and by Application. For the period 2021-2032, 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

Straight-back

Inclined-back

Market segment by Automation

Fully Automatic Testing and Sorting Machine

Semi-Automatic Testing and Sorting Machine

Market segment by IC Type

Universal Chip Testing and Sorting Machine

Special Chip Testing and Sorting Machine

Market segment by Application

IDMs

OSATs

Major players covered

Cohu, Inc. (Xcerra & MCT)

Changchuan Technology

Advantest

Hon Precision

Shenkeda Semiconductor

Boston Semi Equipment

EXIS TECH

SRM Integration

Shanghai Yingshuo

TESEC Corporation

Fuzhou Palide

Shanghai Cascol

Shenzhen Good-Machine Automation Equipment

Foshan PowerTECH

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 Gravity Based Testing and Sorting Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gravity Based Testing and Sorting Machine, with price, sales quantity, revenue, and global market share of Gravity Based Testing and Sorting Machine from 2021 to 2026.

Chapter 3, the Gravity Based Testing and Sorting Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gravity Based Testing and Sorting Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Gravity Based Testing and Sorting Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Gravity Based Testing and Sorting Machine.

Chapter 14 and 15, to describe Gravity Based Testing and Sorting Machine sales channel, distributors, customers, research findings and conclusion.

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