

# Global Convection Rework Handheld & Systems Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Convection Rework Handheld & Systems market size was valued at USD 63 million in 2023 and is forecast to a readjusted size of USD 51 million by 2030 with a CAGR of -2.8% during review period.

The Convection Rework Handheld & Systems market, which involves equipment used for reworking and soldering electronic components, is influenced by several drivers and restrictions. These factors impact the growth and development of the market. Here are some key drivers and restrictions affecting the Convection Rework Handheld & Systems market:

Drivers:

**Electronics Industry Growth:** The expansion of the electronics manufacturing industry, including consumer electronics, automotive electronics, and aerospace electronics, drives the demand for convection rework equipment.

**Miniaturization of Electronics:** The trend toward smaller and more densely packed electronic components necessitates precise and efficient rework solutions, boosting the market for convection rework systems.

**Advancements in Surface Mount Technology (SMT):** The adoption of SMT components and printed circuit boards (PCBs) with smaller form factors increases the need for convection rework equipment for component installation and removal.

**Lead-Free Soldering:** The shift toward lead-free soldering materials, which require higher temperatures and precise control, drives the adoption of convection rework systems.

**Repair and Refurbishment:** The growing market for electronic repair and refurbishment services, including mobile phone repair and computer maintenance, increases the demand for handheld and benchtop convection rework tools.

**Increased Component Complexity:** The complexity of electronic components, including Ball Grid Arrays (BGAs) and Quad Flat Packages (QFPs), necessitates precise rework solutions, which convection rework systems can provide.

**Environmental Regulations:** Environmental regulations and directives require the use of lead-free solder and environmentally friendly processes, which are facilitated by convection rework systems.

**Advanced Heating Technologies:** The development of advanced heating technologies, such as infrared and hot air reflow, improves the performance and efficiency of convection rework systems.

**Restrictions:**

**Cost:** High-quality convection rework systems and handheld tools can be expensive, potentially limiting adoption, especially for small and medium-sized businesses.

**Skills and Training:** Operating convection rework equipment requires specialized skills and training, and a shortage of skilled technicians can be a restriction.

**Component Sensitivity:** Delicate electronic components can be sensitive to temperature and may be damaged during rework if not handled properly, posing a risk.

**Complexity:** The complexity of reworking advanced packages like BGAs and chip-scale packages (CSPs) can be challenging, and not all technicians may be equipped to handle such complexity.

**Technological Obsolescence:** Rapid advancements in technology may render older convection rework systems and handheld tools obsolete, requiring regular updates and investments.

**Safety Concerns:** The use of high temperatures and potentially hazardous materials in rework processes requires strict safety measures and precautions.

**Regulatory Compliance:** Compliance with regulations, such as RoHS (Restriction of Hazardous Substances) and WEEE (Waste Electrical and Electronic Equipment), can be challenging and impact the use of certain materials and processes.

**Market Competition:** The market for convection rework equipment is competitive, with various manufacturers offering a range of solutions, leading to price pressures and product differentiation challenges.

Overall, the Convection Rework Handheld & Systems market plays a crucial role in the electronics manufacturing and repair industries. While cost, skills, and safety concerns exist, the need for precise and efficient rework solutions in the ever-evolving electronics sector is expected to drive continued growth and innovation in this market.

The Global Info Research report includes an overview of the development of the Convection Rework Handheld & Systems industry chain, the market status of Consumer Electronics (Optical Alignment, Non-optical Alignment), Electrical Communication (Optical Alignment, Non-optical Alignment), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Convection Rework Handheld & Systems.

Regionally, the report analyzes the Convection Rework Handheld & Systems markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Convection Rework Handheld & Systems market, with robust domestic demand, supportive policies, and a strong manufacturing base.

**Key Features:**

The report presents comprehensive understanding of the Convection Rework Handheld & Systems market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Convection Rework Handheld & Systems industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Optical Alignment, Non-optical Alignment).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Convection Rework Handheld & Systems market.

**Regional Analysis:** The report involves examining the Convection Rework Handheld & Systems market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Convection Rework Handheld & Systems market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Convection Rework Handheld & Systems:

**Company Analysis:** Report covers individual Convection Rework Handheld & Systems manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Convection Rework Handheld & Systems This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Electrical Communication).

**Technology Analysis:** Report covers specific technologies relevant to Convection Rework Handheld & Systems. It assesses the current state, advancements, and potential future developments in Convection Rework Handheld & Systems areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Convection Rework Handheld & Systems market. This analysis helps understand market share, competitive

advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

### Market Segmentation

Convection Rework Handheld & Systems market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

#### Market segment by Type

- Optical Alignment

- Non-optical Alignment

#### Market segment by Application

- Consumer Electronics

- Electrical Communication

- Automotive Electronics

- Scientific Research

- Others

#### Major players covered

- OK International

- Den-On Instruments

- Finetech

Ersa

VJE

Advanced Techniques

Air-vac

Seamark

Dinghua

Shenzhen Shuttle

Atten

Gmax

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 Convection Rework Handheld & Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Convection Rework Handheld & Systems, with price, sales, revenue and global market share of Convection Rework Handheld & Systems from 2019 to 2024.

Chapter 3, the Convection Rework Handheld & Systems competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Convection Rework Handheld & Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2023. and Convection Rework Handheld & Systems market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Convection Rework Handheld & Systems.

Chapter 14 and 15, to describe Convection Rework Handheld & Systems sales channel, distributors, customers, research findings and conclusion.

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