

# Global Convection Rework Handheld & Systems Market Research Report 2023

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## Abstracts

According to QYResearch's new survey, global Convection Rework Handheld & Systems market is projected to reach US\$ 49 million in 2029, increasing from US\$ 61 million in 2022, with the CAGR of -3.0% during the period of 2023 to 2029. Influencing issues, such as economy environments, COVID-19 and Russia-Ukraine War, have led to great market fluctuations in the past few years and are considered comprehensively in the whole Convection Rework Handheld & Systems market research.

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.

## Report Scope

This report, based on historical analysis (2018-2022) and forecast calculation (2023-2029), aims to help readers to get a comprehensive understanding of global Convection Rework Handheld & Systems market with multiple angles, which provides sufficient supports to readers' strategy and decision making.

## By Company

OK International

Den-On Instruments

Finetech

Ersa

VJE

Advanced Techniques

Air-vac

Seamark

Dinghua

Shenzhen Shuttle

Atten

Gmax

### Segment by Type

Optical Alignment

Non-optical Alignment

### Segment by Application

Consumer Electronics

Electrical Communication

Automotive Electronics

Scientific Research

Others

### Production by Region

North America

Europe

China

Japan

South Korea

## Consumption by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

China Taiwan

Southeast Asia

India

## Latin America, Middle East & Africa

Mexico

Brazil

Turkey

GCC Countries

The Convection Rework Handheld & Systems report covers below items:

Chapter 1: Product Basic Information (Definition, type and application)

Chapter 2: Manufacturers' Competition Patterns

Chapter 3: Production Region Distribution and Analysis

Chapter 4: Country Level Sales Analysis

Chapter 5: Product Type Analysis

Chapter 6: Product Application Analysis

Chapter 7: Manufacturers' Outline

Chapter 8: Industry Chain, Market Channel and Customer Analysis

Chapter 9: Market Opportunities and Challenges

Chapter 10: Market Conclusions

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