

Wire Harness Manufacturing Equipment Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application

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Abstracts

Wire Harness Manufacturing Equipment Market Summary

Introduction

Wire harness manufacturing equipment comprises specialized machinery designed to automate and streamline the production of wire harnesses, which are critical assemblies of wires, connectors, and terminals used to transmit power and signals in various applications. This equipment includes cutting, stripping, crimping, and assembly machines, enabling high-precision and efficient production to meet the demands of industries such as automotive, aerospace, and home appliances. The industry is characterized by its reliance on automation to enhance productivity, reduce labor costs, and ensure consistent quality, particularly as global vehicle production reached 93.5 million units in 2023, with a CAGR of 2% from 2019 to 2023, and new energy vehicle (NEV) sales hit 18.2 million units in 2024, up 24.4%. The surge in NEVs, especially in China (12.9 million units in 2024, up 35.7%), underscores the need for advanced equipment to produce complex harnesses for electric and hybrid vehicles. The global wire harness manufacturing equipment market is estimated to reach USD 1.5-2.5 billion in 2025, with a projected CAGR of 3.5%-7.0% from 2025 to 2030, driven by electrification trends, industrial automation, and rising consumer electronics demand.

Market Size and Growth Forecast

The wire harness manufacturing equipment market, valued at USD 1.5-2.5 billion in 2025, is expected to grow at a CAGR of 3.5%-7.0% through 2030. This growth reflects the increasing adoption of automation in manufacturing, the expansion of NEV

production, and the need for high-quality harnesses across diverse sectors, tempered by regional economic variations and equipment replacement cycles.

Regional Analysis

Asia Pacific: Growth is estimated at 4.5%-7.5%, led by China, which dominates with its massive vehicle output (55.1 million units in 2023) and NEV surge. Japan and India also contribute, with trends favoring automation and EV infrastructure development.

Europe: The market grows at 2.5%-4.5%, with Germany and France driving demand through automotive and aerospace advancements. Trends emphasize precision equipment for high-voltage harnesses.

North America: Growth is projected at 3.0%-5.0%, with the United States focusing on automotive electrification and industrial automation. Trends highlight investments in smart manufacturing.

Africa: Growth is estimated at 2.0%-4.0%, with South Africa leading due to modest industrial growth. Trends lean toward cost-effective solutions for emerging markets.

Application Analysis

Automotive & Transportation: Growing at 4.0%-7.0%, this segment dominates due to NEV and traditional vehicle demand. Trends show a shift toward equipment for high-voltage and lightweight harnesses.

Home Appliances: With a growth rate of 3.0%-5.5%, it supports wiring for smart devices, with trends in compact, efficient production.

Aerospace: Growing at 3.5%-6.0%, it requires precision equipment for durable harnesses, with trends in lightweight materials.

Medical: Growth is 3.0%-5.0%, driven by diagnostic and wearable devices, with trends toward miniaturization.

Industrial: Growing at 2.5%-4.5%, it supports automation systems, with trends in robust, scalable equipment.

Others: Including telecom, this grows at 2.0%-4.0%, with steady niche demand.

Key Market Players

Komax: Based in Switzerland, Komax offers cutting-edge wire processing solutions for automotive and industrial applications.

ShinMaywa Industries Ltd.: In Japan, it provides automated equipment for aerospace and automotive harness production.

Japan Automatic Machine Co. Ltd.: Also in Japan, it focuses on precision machinery for wire harness assembly.

Schaefer: In Germany, Schaefer targets high-quality equipment for industrial and automotive uses.

Metzner Maschinenbau GmbH: In Germany, it specializes in flexible automation solutions for harness manufacturing.

Xiamen Hiprecise Technology Co. Ltd.: In China, it serves regional automotive and appliance markets with cost-effective machines.

Hebi Haichang Intelligent Technology Co. Ltd.: In China, it focuses on smart equipment for industrial applications.

Jiangsu Bozhiwang Automation Equipment CO. Ltd.: In China, it provides scalable solutions for harness production.

Wuxi Airstorm Technology Co. Ltd.: In China, it caters to automotive and industrial needs with innovative designs.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate, as high capital and technical expertise create barriers, though growing demand attracts regional players.

Threat of Substitutes: Low, as specialized equipment lacks direct alternatives, though manual processes compete in low-cost regions.

Bargaining Power of Buyers: Moderate, with large manufacturers negotiating

prices, but customization limits options.

Bargaining Power of Suppliers: Moderate, with component supply concentrated in key regions like Asia.

Industry Rivalry: High, driven by innovation and pricing competition among global and regional firms.

Market Opportunities and Challenges

Opportunities

NEV growth, especially in China, drives demand for advanced equipment.

Industrial automation and smart home trends boost production needs.

Aerospace and medical sector expansion offers high-value opportunities.

Challenges

High equipment costs limit adoption in smaller markets.

Rapid technological changes require continuous R&D investment.

Supply chain disruptions affect component availability.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method
- Chapter Four Market Landscape
- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Wire Harness Manufacturing Equipment Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST WIRE HARNESS MANUFACTURING EQUIPMENT MARKET IN NORTH AMERICA (2020-2030)

8.1 Wire Harness Manufacturing Equipment Market Size

8.2 Wire Harness Manufacturing Equipment Market by End Use

8.3 Competition by Players/Suppliers

8.4 Wire Harness Manufacturing Equipment Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST WIRE HARNESS MANUFACTURING EQUIPMENT MARKET IN SOUTH AMERICA (2020-2030)

9.1 Wire Harness Manufacturing Equipment Market Size

9.2 Wire Harness Manufacturing Equipment Market by End Use

9.3 Competition by Players/Suppliers

9.4 Wire Harness Manufacturing Equipment Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST WIRE HARNESS MANUFACTURING EQUIPMENT MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Wire Harness Manufacturing Equipment Market Size

10.2 Wire Harness Manufacturing Equipment Market by End Use

10.3 Competition by Players/Suppliers

10.4 Wire Harness Manufacturing Equipment Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST WIRE HARNESS MANUFACTURING EQUIPMENT MARKET IN EUROPE (2020-2030)

- 11.1 Wire Harness Manufacturing Equipment Market Size
- 11.2 Wire Harness Manufacturing Equipment Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Wire Harness Manufacturing Equipment Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST WIRE HARNESS MANUFACTURING EQUIPMENT MARKET IN MEA (2020-2030)

- 12.1 Wire Harness Manufacturing Equipment Market Size
- 12.2 Wire Harness Manufacturing Equipment Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Wire Harness Manufacturing Equipment Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL WIRE HARNESS MANUFACTURING EQUIPMENT MARKET (2020-2025)

- 13.1 Wire Harness Manufacturing Equipment Market Size
- 13.2 Wire Harness Manufacturing Equipment Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Wire Harness Manufacturing Equipment Market Size by Type

CHAPTER 14 GLOBAL WIRE HARNESS MANUFACTURING EQUIPMENT MARKET FORECAST (2025-2030)

- 14.1 Wire Harness Manufacturing Equipment Market Size Forecast
- 14.2 Wire Harness Manufacturing Equipment Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Wire Harness Manufacturing Equipment Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Komax
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Wire Harness Manufacturing Equipment Information
 - 15.1.3 SWOT Analysis of Komax
 - 15.1.4 Komax Wire Harness Manufacturing Equipment Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 ShinMaywa Industries Ltd.
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Wire Harness Manufacturing Equipment Information
 - 15.2.3 SWOT Analysis of ShinMaywa Industries Ltd.
 - 15.2.4 ShinMaywa Industries Ltd. Wire Harness Manufacturing Equipment Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Japan Automatic Machine Co. Ltd.
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Wire Harness Manufacturing Equipment Information
 - 15.3.3 SWOT Analysis of Japan Automatic Machine Co. Ltd.
 - 15.3.4 Japan Automatic Machine Co. Ltd. Wire Harness Manufacturing Equipment Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Schaefer
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Wire Harness Manufacturing Equipment Information
 - 15.4.3 SWOT Analysis of Schaefer
 - 15.4.4 Schaefer Wire Harness Manufacturing Equipment Revenue, Gross Margin and

Market Share (2020-2025)

15.5 Metzner Maschinenbau GmbH

15.5.1 Company Profile

15.5.2 Main Business and Wire Harness Manufacturing Equipment Information

15.5.3 SWOT Analysis of Metzner Maschinenbau GmbH

15.5.4 Metzner Maschinenbau GmbH Wire Harness Manufacturing Equipment

Revenue, Gross Margin and Market Share (2020-2025)

15.6 Xiamen Hiprecise Technology Co. Ltd.

15.6.1 Company Profile

15.6.2 Main Business and Wire Harness Manufacturing Equipment Information

15.6.3 SWOT Analysis of Xiamen Hiprecise Technology Co. Ltd.

15.6.4 Xiamen Hiprecise Technology Co. Ltd. Wire Harness Manufacturing Equipment

Revenue, Gross Margin and Market Share (2020-2025)

15.7 Hebi Haichang Intelligent Technology Co. Ltd

15.7.1 Company Profile

15.7.2 Main Business and Wire Harness Manufacturing Equipment Information

15.7.3 SWOT Analysis of Hebi Haichang Intelligent Technology Co. Ltd

15.7.4 Hebi Haichang Intelligent Technology Co. Ltd Wire Harness Manufacturing

Equipment Revenue, Gross Margin and Market Share (2020-2025)

15.8 Jiangsu Bozhiwang Automation Equipment CO. Ltd

15.8.1 Company Profile

15.8.2 Main Business and Wire Harness Manufacturing Equipment Information

15.8.3 SWOT Analysis of Jiangsu Bozhiwang Automation Equipment CO. Ltd

15.8.4 Jiangsu Bozhiwang Automation Equipment CO. Ltd Wire Harness

Manufacturing Equipment Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms

Table Research Scope of Wire Harness Manufacturing Equipment Report

Table Data Sources of Wire Harness Manufacturing Equipment Report

Table Major Assumptions of Wire Harness Manufacturing Equipment Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Wire Harness Manufacturing Equipment Picture

Table Wire Harness Manufacturing Equipment Classification

Table Wire Harness Manufacturing Equipment Applications

Table Drivers of Wire Harness Manufacturing Equipment Market

Table Restraints of Wire Harness Manufacturing Equipment Market

Table Opportunities of Wire Harness Manufacturing Equipment Market

Table Threats of Wire Harness Manufacturing Equipment Market
Table Covid-19 Impact For Wire Harness Manufacturing Equipment Market
Table Raw Materials Suppliers
Table Different Production Methods of Wire Harness Manufacturing Equipment
Table Cost Structure Analysis of Wire Harness Manufacturing Equipment
Table Key End Users
Table Latest News of Wire Harness Manufacturing Equipment Market
Table Merger and Acquisition
Table Planned/Future Project of Wire Harness Manufacturing Equipment Market
Table Policy of Wire Harness Manufacturing Equipment Market
Table 2020-2030 North America Wire Harness Manufacturing Equipment Market Size
Figure 2020-2030 North America Wire Harness Manufacturing Equipment Market Size and CAGR
Table 2020-2030 North America Wire Harness Manufacturing Equipment Market Size by Application
Table 2020-2025 North America Wire Harness Manufacturing Equipment Key Players Revenue
Table 2020-2025 North America Wire Harness Manufacturing Equipment Key Players Market Share
Table 2020-2030 North America Wire Harness Manufacturing Equipment Market Size by Type
Table 2020-2030 United States Wire Harness Manufacturing Equipment Market Size
Table 2020-2030 Canada Wire Harness Manufacturing Equipment Market Size
Table 2020-2030 Mexico Wire Harness Manufacturing Equipment Market Size
Table 2020-2030 South America Wire Harness Manufacturing Equipment Market Size
Figure 2020-2030 South America Wire Harness Manufacturing Equipment Market Size and CAGR
Table 2020-2030 South America Wire Harness Manufacturing Equipment Market Size by Application
Table 2020-2025 South America Wire Harness Manufacturing Equipment Key Players Revenue
Table 2020-2025 South America Wire Harness Manufacturing Equipment Key Players Market Share
Table 2020-2030 South America Wire Harness Manufacturing Equipment Market Size by Type
Table 2020-2030 Brazil Wire Harness Manufacturing Equipment Market Size
Table 2020-2030 Argentina Wire Harness Manufacturing Equipment Market Size
Table 2020-2030 Chile Wire Harness Manufacturing Equipment Market Size
Table 2020-2030 Peru Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Asia & Pacific Wire Harness Manufacturing Equipment Market Size
Figure 2020-2030 Asia & Pacific Wire Harness Manufacturing Equipment Market Size
and CAGR

Table 2020-2030 Asia & Pacific Wire Harness Manufacturing Equipment Market Size by
Application

Table 2020-2025 Asia & Pacific Wire Harness Manufacturing Equipment Key Players
Revenue

Table 2020-2025 Asia & Pacific Wire Harness Manufacturing Equipment Key Players
Market Share

Table 2020-2030 Asia & Pacific Wire Harness Manufacturing Equipment Market Size by
Type

Table 2020-2030 China Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 India Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Japan Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 South Korea Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Southeast Asia Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Australia Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Europe Wire Harness Manufacturing Equipment Market Size

Figure 2020-2030 Europe Wire Harness Manufacturing Equipment Market Size and
CAGR

Table 2020-2030 Europe Wire Harness Manufacturing Equipment Market Size by
Application

Table 2020-2025 Europe Wire Harness Manufacturing Equipment Key Players Revenue

Table 2020-2025 Europe Wire Harness Manufacturing Equipment Key Players Market
Share

Table 2020-2030 Europe Wire Harness Manufacturing Equipment Market Size by Type

Table 2020-2030 Germany Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 France Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 United Kingdom Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Italy Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Spain Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Belgium Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Netherlands Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Austria Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Poland Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Russia Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 MEA Wire Harness Manufacturing Equipment Market Size

Figure 2020-2030 MEA Wire Harness Manufacturing Equipment Market Size and
CAGR

Table 2020-2030 MEA Wire Harness Manufacturing Equipment Market Size by Application

Table 2020-2025 MEA Wire Harness Manufacturing Equipment Key Players Revenue

Table 2020-2025 MEA Wire Harness Manufacturing Equipment Key Players Market Share

Table 2020-2030 MEA Wire Harness Manufacturing Equipment Market Size by Type

Table 2020-2030 Egypt Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Israel Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 South Africa Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Gulf Cooperation Council Countries Wire Harness Manufacturing Equipment Market Size

Table 2020-2030 Turkey Wire Harness Manufacturing Equipment Market Size

Table 2020-2025 Global Wire Harness Manufacturing Equipment Market Size by Region

Table 2020-2025 Global Wire Harness Manufacturing Equipment Market Size Share by Region

Table 2020-2025 Global Wire Harness Manufacturing Equipment Market Size by Application

Table 2020-2025 Global Wire Harness Manufacturing Equipment Market Share by Application

Table 2020-2025 Global Wire Harness Manufacturing Equipment Key Vendors Revenue

Figure 2020-2025 Global Wire Harness Manufacturing Equipment Market Size and Growth Rate

Table 2020-2025 Global Wire Harness Manufacturing Equipment Key Vendors Market Share

Table 2020-2025 Global Wire Harness Manufacturing Equipment Market Size by Type

Table 2020-2025 Global Wire Harness Manufacturing Equipment Market Share by Type

Table 2025-2030 Global Wire Harness Manufacturing Equipment Market Size by Region

Table 2025-2030 Global Wire Harness Manufacturing Equipment Market Size Share by Region

Table 2025-2030 Global Wire Harness Manufacturing Equipment Market Size by Application

Table 2025-2030 Global Wire Harness Manufacturing Equipment Market Share by Application

Table 2025-2030 Global Wire Harness Manufacturing Equipment Key Vendors Revenue

Figure 2025-2030 Global Wire Harness Manufacturing Equipment Market Size and

Growth Rate

Table 2025-2030 Global Wire Harness Manufacturing Equipment Key Vendors Market Share

Table 2025-2030 Global Wire Harness Manufacturing Equipment Market Size by Type

Table 2025-2030 Wire Harness Manufacturing Equipment Global Market Share by Type

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