

Solar Fasteners Market Size, Share & Trends Analysis Report By Product (Self-drilling Screws, Fastening Set for Metal Roofs, Fastening Set for Fiber Cement Roofs), By End Use, By Region, and Segment Forecasts, 2025 - 2033

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Abstracts

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Solar Fasteners Market Summary

The global solar fasteners market size was estimated at USD 3.83 billion in 2024 and is projected to reach USD 8.38 billion by 2033, growing at a CAGR of 9.1% from 2025 to 2033. The increasing demand for renewable energy has been a key driver for the market.

As governments and private stakeholders increasingly focus on reducing carbon emissions and meeting climate goals, the installation of solar panels across residential, commercial, and utility-scale projects has surged. Solar fasteners, essential components in securing photovoltaic modules, are experiencing strong demand due to the rising number of installations. Incentive programs such as feed-in tariffs, investment tax credits, and net metering policies in countries like the United States, Germany, China, and India have encouraged solar adoption, thereby positively impacting the growth of solar fasteners.

Innovation in solar mounting systems and fastening technologies is significantly driving market expansion. The development of advanced, corrosion-resistant fasteners with high load-bearing capacity enhances system durability and efficiency, particularly in extreme environmental conditions. Fasteners made of stainless steel, aluminum alloys,

and other weather-resistant materials are now designed to support easy installation and long-term reliability. Moreover, the emergence of prefabricated and modular systems requiring specialized fasteners has increased the need for customized and application-specific solutions, stimulating innovation and demand in the market.

The exponential growth of both utility-scale solar farms and rooftop solar applications has led to a surge in demand for reliable fastening systems. Utility-scale projects require thousands of modules to be mounted securely, necessitating a large volume of precision fasteners to ensure structural integrity under dynamic loads such as wind or seismic activity. In parallel, the expansion of rooftop solar in urban and suburban areas, particularly in emerging economies, is fostering demand for fasteners compatible with various roofing materials and designs. This wide application base across installation types is a substantial driver of the solar fasteners market.

Global Solar Fasteners Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global solar fasteners market report based on product, end use, and region.

Product Outlook (Revenue, USD Million, 2021 - 2033)

Self-drilling Screws

Fastening Set for Metal Roofs

Fastening Set for Fiber Cement Roofs

Wood Screws for Roof Hook Installation

Metric Fasteners

Others (Concrete Anchors, T-Bolts and Channel Nuts, etc.)

End Use Type Outlook (Revenue, USD Million, 2021 - 2033)

Construction & Real Estate

Energy & Utilities (Solar and Green Roofs)

Industrial & Manufacturing

Government & Public Sector

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Poland

Austria

Romania

Asia Pacific

China

Malaysia

Thailand

Indonesia

Singapore

Latin America

Brazil

Middle East & Africa

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Research Methodology
- 1.2. Research Scope & Assumption
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook, 2023 (USD Million)
- 2.2. Segmental Outlook
- 2.3. Competitive Insights

CHAPTER 3. SOLAR FASTENERS MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Industry Value Chain Analysis
- 3.3. Raw Material Trends
 - 3.3.1. Polyurethane
 - 3.3.2. Zinc Oxide
 - 3.3.3. Mechanical Visible Fixing
- 3.4. Regulatory Framework
- 3.5. Technological Overview
- 3.6. Market Dynamics
 - 3.6.1. Market Driver Analysis
 - 3.6.2. Market Restraint Analysis
 - 3.6.3. Industry Opportunities
- 3.7. Business Environmental Tools Analysis: Solar Fasteners market
 - 3.7.1. Porter's Five Forces Analysis
 - 3.7.1.1. Bargaining Power of Suppliers

- 3.7.1.2. Bargaining Power of Buyers
- 3.7.1.3. Threat of Substitution
- 3.7.1.4. Threat of New Entrants
- 3.7.1.5. Competitive Rivalry
- 3.7.2. PESTLE Analysis, by SWOT
 - 3.7.2.1. Political Landscape
 - 3.7.2.2. Economic Landscape
 - 3.7.2.3. Social Landscape
 - 3.7.2.4. Technology Landscape
 - 3.7.2.5. Environmental Landscape
 - 3.7.2.6. Legal Landscape
- 3.8. Market Disruption Analysis

CHAPTER 4. SOLAR FASTENERS MARKET: PRODUCT ESTIMATES & TREND ANALYSIS

- 4.1. Key Takeaways
- 4.2. Product movement analysis & market share, 2024 & 2033
- 4.3. Global solar fasteners market by product, 2021 - 2033 (USD Million)
- 4.4. Aluminum Framing System
 - 4.4.1. Solar fastener market estimates and forecasts, by aluminum framing system, 2021 - 2033 (USD Million)
- 4.5. Fastening Set for Metal Roofs
 - 4.5.1. Solar fastener market estimates and forecasts, by steel support structures, 2021 - 2033 (USD Million)
- 4.6. Fastening Set for Fiber Cement Roofs
 - 4.6.1. Solar fastener market estimates and forecasts, by wood framing, 2021 - 2033 (USD Million)
- 4.7. Wood Screws for Roof Hook Installation
 - 4.7.1. Solar fastener market estimates and forecasts, by hybrid substructures, 2021 - 2033 (USD Million)
- 4.8. Stainless Steel Substructure
 - 4.8.1. Solar fastener market estimates and forecasts, by stainless steel substructure, 2021 - 2033 (USD Million)
- 4.9. Others
 - 4.9.1. Solar fastener market estimates and forecasts, by others, 2021 - 2033 (USD Million)

CHAPTER 5. SOLAR FASTENERS MARKET: END USE ESTIMATES & TREND

ANALYSIS

5.1. Key Takeaways

5.2. End use movement analysis & market share, 2024 & 2033

5.3. Global solar fasteners market by end use, 2021 - 2033 (USD Million)

5.4. Construction & Real Estate

5.4.1. Solar fastener market estimates and forecasts, by construction & real estate, 2021 - 2033 (USD Million)

5.5. Energy & Utilities

5.5.1. Solar fastener market estimates and forecasts, by energy and utilities, 2021 - 2033 (USD Million)

5.6. Industrial & Manufacturing

5.6.1. Solar fastener market estimates and forecasts, by industrial & manufacturing, 2021 - 2033 (USD Million)

5.7. Government & Public Sector

5.7.1. Solar fastener market estimates and forecasts, by government & public sector, 2021 - 2033 (USD Million)

5.8. Others

5.8.1. Solar fastener market estimates and forecasts, by others, 2021 - 2033 (USD Million)

CHAPTER 6. SOLAR FASTENERS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1. Regional Movement Analysis & Market Share, 2021 & 2033

6.2. Solar Fasteners market: Regional movement analysis, 2021 & 2033

6.3. North America

6.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.3.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.3.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.3.4. U.S.

6.3.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.3.4.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.3.4.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.3.5. Canada

6.3.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.3.5.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.3.5.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.3.6. Mexico

- 6.3.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 6.3.6.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
- 6.3.6.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.4. Europe

- 6.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 6.4.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
- 6.4.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)
- 6.4.4. Germany
 - 6.4.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 6.4.4.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
 - 6.4.4.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.4.5. UK

- 6.4.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 6.4.5.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
- 6.4.5.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.4.6. France

- 6.4.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 6.4.6.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
- 6.4.6.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.4.7. Poland

- 6.4.7.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 6.4.7.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
- 6.4.7.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.4.8. Austria

- 6.4.8.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 6.4.8.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
- 6.4.8.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.4.9. Romania

- 6.4.9.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 6.4.9.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
- 6.4.9.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.5. Asia Pacific

- 6.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 6.5.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
- 6.5.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)
- 6.5.4. China
 - 6.5.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 6.5.4.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)
 - 6.5.4.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.5.5. Thailand

6.5.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.5.5.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.5.5.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.5.6. Malaysia

6.5.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.5.6.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.5.6.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.5.7. Indonesia

6.5.7.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.5.7.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.5.7.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.5.8. Singapore

6.5.8.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.5.8.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.5.8.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.6. Latin America

6.6.1.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.6.1.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.6.1.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.6.2. Brazil

6.6.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.6.2.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.6.2.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

6.7. Middle East & Africa

6.7.1.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.7.1.2. Market estimates and forecasts, by Product, 2021 - 2033 (USD Million)

6.7.1.3. Market estimates and forecasts, by End Use, 2021 - 2033 (USD Million)

CHAPTER 7. SOLAR FASTENERS MARKET SUPPLIER INTELLIGENCE

7.1. Kraljic Matrix/Portfolio Analysis

7.2. Engagement Model

7.3. Negotiation Strategies

7.4. Sourcing Best Practices

7.5. Vendor Selection Criteria

7.6. List of Raw Material Suppliers

CHAPTER 8. COMPETITIVE LANDSCAPE

- 8.1. Key Players, their Recent Developments, and their Impact on Industry
- 8.2. Key Company/Competition Categorization
- 8.3. Company Market Position Analysis
- 8.4. Company Heat Map Analysis
- 8.5. Strategy Mapping
- 8.6. Company Listing
 - 8.6.1. Hilti Corporation
 - 8.6.1.1. Company Overview
 - 8.6.1.2. Financial Performance
 - 8.6.1.3. Product Benchmarking
 - 8.6.1.4. Strategic Initiatives
 - 8.6.2. EJOT Group
 - 8.6.2.1. Company Overview
 - 8.6.2.2. Financial Performance
 - 8.6.2.3. Product Benchmarking
 - 8.6.2.4. Strategic Initiatives
 - 8.6.3. Würth Group
 - 8.6.3.1. Company Overview
 - 8.6.3.2. Financial Performance
 - 8.6.3.3. Product Benchmarking
 - 8.6.3.4. Strategic Initiatives
 - 8.6.4. SFS Group AG
 - 8.6.4.1. Company Overview
 - 8.6.4.2. Financial Performance
 - 8.6.4.3. Product Benchmarking
 - 8.6.4.4. Strategic Initiatives
 - 8.6.5. Bossard Group
 - 8.6.5.1. Company Overview
 - 8.6.5.2. Financial Performance
 - 8.6.5.3. Product Benchmarking
 - 8.6.5.4. Strategic Initiatives
 - 8.6.6. Solar Connections International
 - 8.6.6.1. Company Overview
 - 8.6.6.2. Financial Performance
 - 8.6.6.3. Product Benchmarking
 - 8.6.6.4. Strategic Initiatives
 - 8.6.7. Fischer Group
 - 8.6.7.1. Company Overview

- 8.6.7.2. Financial Performance
- 8.6.7.3. Product Benchmarking
- 8.6.7.4. Strategic Initiatives
- 8.6.8. KATANA Group
 - 8.6.8.1. Company Overview
 - 8.6.8.2. Financial Performance
 - 8.6.8.3. Product Benchmarking
 - 8.6.8.4. Strategic Initiatives
- 8.6.9. PENN Engineering
 - 8.6.9.1. Company Overview
 - 8.6.9.2. Financial Performance
 - 8.6.9.3. Product Benchmarking
 - 8.6.9.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 Solar Fastener Market Estimates and Forecasts, By Self-drilling Screws, 2021?-?2033 (USD Million)

Table 2 Solar Fastener Market Estimates and Forecasts, By Fastening Set for Metal Roofs, 2021?-?2033 (USD Million)

Table 3 Solar Fastener Market Estimates and Forecasts, By Fastening Set for Fiber Cement Roofs, 2021?-?2033 (USD Million)

Table 4 Solar Fastener Market Estimates and Forecasts, By Wood Screws for Roof Hook Installation, 2021?-?2033 (USD Million)

Table 5 Solar Fastener Market Estimates and Forecasts, By Metric Fasteners, 2021?-?2033 (USD Million)

Table 6 Solar Fastener Market Estimates and Forecasts, By Others (Concrete Anchors, T-Bolts and Channel Nuts, etc), 2021?-?2033 (USD Million)

Table 7 Solar Fastener Market Estimates and Forecasts, By Construction & Real Estate, 2021?-?2033 (USD Million)

Table 8 Solar Fastener Market Estimates and Forecasts, By Energy & Utilities (Solar and Green Roofs), 2021?-?2033 (USD Million)

Table 9 Solar Fastener Market Estimates and Forecasts, By Industrial & Manufacturing, 2021?-?2033 (USD Million)

Table 10 Solar Fastener Market Estimates and Forecasts, By Government & Public Sector, 2021?-?2033 (USD Million)

Table 11 Solar Fastener Market Estimates and Forecasts, By Others, 2021?-?2033 (USD Million)

Table 12 North America Solar Fasteners Market Estimates and Forecasts, By Product, 2021?-?2033 (USD Million)

Table 13 North America Solar Fasteners Market Estimates and Forecasts, By End Use, 2021?-?2033 (USD Million)

Table 14 Europe Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 15 Europe Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 16 Germany Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 17 Germany Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 18 UK Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 19 UK Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 20 France Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 21 France Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 22 Poland Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 23 Poland Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 24 Austria Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 25 Austria Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 26 Romania Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 27 Romania Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 28 Asia Pacific Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 29 Asia Pacific Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 30 China Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 31 China Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 32 Malaysia Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 33 Malaysia Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 34 Thailand Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 35 Thailand Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 36 Indonesia Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 37 Indonesia Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 38 Singapore Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

- 2033 (USD Million)

Table 39 Singapore Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 40 Latin America Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 41 Latin America Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 42 Brazil Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 43 Brazil Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 44 Middle East & Africa Solar Fasteners Market Estimates and Forecasts, By Product, 2021 - 2033 (USD Million)

Table 45 Middle East & Africa Solar Fasteners Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Information Procurement
- Fig. 2 Primary Research Pattern
- Fig. 3 Primary Research Process
- Fig. 4 Market Research Approaches - Bottom-Up Approach
- Fig. 5 Market Research Approaches - Top-Down Approach
- Fig. 6 Market Research Approaches - Combined Approach
- Fig. 7 Market Outlook
- Fig. 8 Segmental Outlook
- Fig. 9 Competitive Insights
- Fig. 10 Market Segmentation & Scope
- Fig. 11 Penetration & Growth Prospect Mapping
- Fig. 12 Industry Value Chain Analysis
- Fig. 13 Market Dynamics
- Fig. 14 Market Driver Analysis
- Fig. 15 Market Restraint Analysis
- Fig. 16 Solar Fasteners Market: Product Movement Analysis, 2021 & 2033
- Fig. 17 Solar Fasteners Market: End Use Movement Analysis, 2021 & 2033
- Fig. 18 Solar Fasteners Market: Regional Movement Analysis, 2021 & 2033
- Fig. 19 Key Company/Competition Categorization
- Fig. 20 Competitive Dashboard Analysis

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