

Industrial Insulators Market By Type (Pin Insulators, Spool/Shackle Insulators, Suspension Insulators, Others), By Material Type (Porcelain or Ceramic, Glass, Composite, Others) By Application (Transformers, Cables, Switchgear, Busbar, Surge Protection Devices, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The global industrial insulators market was valued at \$4.8 billion in 2023, and is projected to reach \$8.0 billion by 2033, growing at a CAGR of 5.3% from 2024 to 2033.

Industrial insulator is a material or a device that acts as a barrier to the transmission of any form of energy through the insulated surfaces. Ceramics, glass, rubber, plastics, and specialized composites are used to make industrial insulators, which impart insulating properties and durability. Insulation plays a critical role in modern industries, as it aids in reducing energy costs. As per the estimates of the National Insulation Association, proper insulation maintenance and upgrades could save up to \$4.8 billion annually in industrial operations. In addition, industrial insulators diminishes sound, reducing the noise exposure.

The growth of the global industrial insulators market is predominantly driven by increase in need to enhance workplace safety. This is attributed to the fact that insulation improves safety by shielding staff from potentially dangerous surfaces such as hot piping and prevents accidental burns. Moreover, alarming increase in occupational noise exposure hazards is boosting the demand for industrial insulators, as insulation can absorb and reduce the transmission of harmful industrial noise. A worker's

permissible exposure limit over an eight-hour day is 90 dBa, which, if exceeded, can cause hearing loss, increased stress, and increased blood pressure. Furthermore, manufacturers are making use of advanced materials such as aerogels, nanomaterials, and high-performance polymers, which exhibit superior thermal and electrical insulating properties while being lightweight and durable. However, premature insulator failure and associated safety restrain the growth of the market. Moreover, extensive research, testing, and expertise required to opt for suitable industrial insulator that can withstand varying conditions such as high voltages, extreme temperatures, pollution, and harsh environmental factors limit the growth of the market. On the contrary, continuous developments to introduce advanced industrial insulators are expected to offer lucrative opportunities for the growth of the market. For instance, Evonik, one of the world leaders in specialty chemicals, expanded its TEGO Therm product range, which offers superior thermal insulation and fire resistance. Evonik developed TEGO Therm fire-resistant coatings for electric vehicle batteries that mitigate the risk of thermal runaway.

The global industrial insulators market is segmented by type, material type, application, and region. Depending on type, the market is classified into pin insulators, spool/shackle insulators, suspension insulators, and others. By material type, it is segregated into porcelain or ceramic, glass, composite, and others. Depending on application, it is divided into transformers, cables, switchgear, busbar, surge protection devices, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By type, the pin insulators segment held the highest market share in 2023, and is expected to maintain its leadership status by 2033.

On the basis of material type, the porcelain or ceramic segment was the major shareholder in 2023, and is anticipated to continue this trend throughout the forecast period.

Depending on application, the transformer segment held the highest market share in 2023, and is projected to dominate the market in the coming years.

Region wise, Asia-Pacific was the key revenue generator in 2023, and is expected to experience fastest growth throughout the forecast period.

Competition Analysis

Competitive analysis and profiles of the major players in the global Industrial Insulators Market include Hitachi Energy Ltd., Hubbell Power Systems, Reliserv Solution, TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION., LAPP Insulators GmbH, Huntsman International LLC, Adpr%li% Pvt. Ltd., Modern Insulators Ltd., Siemens Energy, prime plus, and Incap These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships t%li% sustain the intense competition in the market.

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Manufacturing Capacity

Investment Opportunities

New Product Development/ Product Matrix of Key Players

Additional company profiles with specific client's interest

Brands Share Analysis

SWOT Analysis

Key Market Segments

By Type

Pin Insulators

Spool/Shackle Insulators

Suspension Insulators

Others

By Material Type

Porcelain or Ceramic

Glass

Composite

Others

By Application

Transformers

Cables

Switchgear

Busbar

Surge Protection Devices

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Hitachi Energy Ltd.

Hubbell Power Systems

Reliserv Solution

TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION.

LAPP Insulators GmbH

Huntsman International LLC

Adpr%li%Pvt. Ltd

Modern Insulators Ltd.

Siemens Energy

prime plus

Incap

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: AC DRIVES MARKET, BY TYPE

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Type
- 4.2. Reversible AC Drives
 - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Non-Reversible AC Drives
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country

CHAPTER 5: AC DRIVES MARKET, BY VOLTAGE TYPE

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By Voltage Type
- 5.2. Low
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. Medium
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country
- 5.4. High
 - 5.4.1. Key Market Trends, Growth Factors and Opportunities
 - 5.4.2. Market Size and Forecast, By Region
 - 5.4.3. Market Share Analysis, By Country

CHAPTER 6: AC DRIVES MARKET, BY APPLICATION

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By Application
- 6.2. HVAC Systems
 - 6.2.1. Key Market Trends, Growth Factors and Opportunities
 - 6.2.2. Market Size and Forecast, By Region
 - 6.2.3. Market Share Analysis, By Country
- 6.3. Water Treatment Pumps
 - 6.3.1. Key Market Trends, Growth Factors and Opportunities
 - 6.3.2. Market Size and Forecast, By Region
 - 6.3.3. Market Share Analysis, By Country
- 6.4. Renewable Energy Systems
 - 6.4.1. Key Market Trends, Growth Factors and Opportunities
 - 6.4.2. Market Size and Forecast, By Region

- 6.4.3. Market Share Analysis, By Country
- 6.5. Mining And Metals
 - 6.5.1. Key Market Trends, Growth Factors and Opportunities
 - 6.5.2. Market Size and Forecast, By Region
 - 6.5.3. Market Share Analysis, By Country
- 6.6. Oil And Gas
 - 6.6.1. Key Market Trends, Growth Factors and Opportunities
 - 6.6.2. Market Size and Forecast, By Region
 - 6.6.3. Market Share Analysis, By Country
- 6.7. Food And Beverage
 - 6.7.1. Key Market Trends, Growth Factors and Opportunities
 - 6.7.2. Market Size and Forecast, By Region
 - 6.7.3. Market Share Analysis, By Country
- 6.8. Others
 - 6.8.1. Key Market Trends, Growth Factors and Opportunities
 - 6.8.2. Market Size and Forecast, By Region
 - 6.8.3. Market Share Analysis, By Country

CHAPTER 7: AC DRIVES MARKET, BY REGION

- 7.1. Market Overview
 - 7.1.1 Market Size and Forecast, By Region
- 7.2. North America
 - 7.2.1. Key Market Trends and Opportunities
 - 7.2.2. Market Size and Forecast, By Type
 - 7.2.3. Market Size and Forecast, By Voltage Type
 - 7.2.4. Market Size and Forecast, By Application
 - 7.2.5. Market Size and Forecast, By Country
 - 7.2.6. U.S. AC Drives Market
 - 7.2.6.1. Market Size and Forecast, By Type
 - 7.2.6.2. Market Size and Forecast, By Voltage Type
 - 7.2.6.3. Market Size and Forecast, By Application
 - 7.2.7. Canada AC Drives Market
 - 7.2.7.1. Market Size and Forecast, By Type
 - 7.2.7.2. Market Size and Forecast, By Voltage Type
 - 7.2.7.3. Market Size and Forecast, By Application
 - 7.2.8. Mexico AC Drives Market
 - 7.2.8.1. Market Size and Forecast, By Type
 - 7.2.8.2. Market Size and Forecast, By Voltage Type

7.2.8.3. Market Size and Forecast, By Application

7.3. Europe

7.3.1. Key Market Trends and Opportunities

7.3.2. Market Size and Forecast, By Type

7.3.3. Market Size and Forecast, By Voltage Type

7.3.4. Market Size and Forecast, By Application

7.3.5. Market Size and Forecast, By Country

7.3.6. Germany AC Drives Market

7.3.6.1. Market Size and Forecast, By Type

7.3.6.2. Market Size and Forecast, By Voltage Type

7.3.6.3. Market Size and Forecast, By Application

7.3.7. UK AC Drives Market

7.3.7.1. Market Size and Forecast, By Type

7.3.7.2. Market Size and Forecast, By Voltage Type

7.3.7.3. Market Size and Forecast, By Application

7.3.8. France AC Drives Market

7.3.8.1. Market Size and Forecast, By Type

7.3.8.2. Market Size and Forecast, By Voltage Type

7.3.8.3. Market Size and Forecast, By Application

7.3.9. Spain AC Drives Market

7.3.9.1. Market Size and Forecast, By Type

7.3.9.2. Market Size and Forecast, By Voltage Type

7.3.9.3. Market Size and Forecast, By Application

7.3.10. Italy AC Drives Market

7.3.10.1. Market Size and Forecast, By Type

7.3.10.2. Market Size and Forecast, By Voltage Type

7.3.10.3. Market Size and Forecast, By Application

7.3.11. Rest of Europe AC Drives Market

7.3.11.1. Market Size and Forecast, By Type

7.3.11.2. Market Size and Forecast, By Voltage Type

7.3.11.3. Market Size and Forecast, By Application

7.4. Asia-Pacific

7.4.1. Key Market Trends and Opportunities

7.4.2. Market Size and Forecast, By Type

7.4.3. Market Size and Forecast, By Voltage Type

7.4.4. Market Size and Forecast, By Application

7.4.5. Market Size and Forecast, By Country

7.4.6. China AC Drives Market

7.4.6.1. Market Size and Forecast, By Type

- 7.4.6.2. Market Size and Forecast, By Voltage Type
- 7.4.6.3. Market Size and Forecast, By Application
- 7.4.7. India AC Drives Market
 - 7.4.7.1. Market Size and Forecast, By Type
 - 7.4.7.2. Market Size and Forecast, By Voltage Type
 - 7.4.7.3. Market Size and Forecast, By Application
- 7.4.8. Japan AC Drives Market
 - 7.4.8.1. Market Size and Forecast, By Type
 - 7.4.8.2. Market Size and Forecast, By Voltage Type
 - 7.4.8.3. Market Size and Forecast, By Application
- 7.4.9. South Korea AC Drives Market
 - 7.4.9.1. Market Size and Forecast, By Type
 - 7.4.9.2. Market Size and Forecast, By Voltage Type
 - 7.4.9.3. Market Size and Forecast, By Application
- 7.4.10. Australia AC Drives Market
 - 7.4.10.1. Market Size and Forecast, By Type
 - 7.4.10.2. Market Size and Forecast, By Voltage Type
 - 7.4.10.3. Market Size and Forecast, By Application
- 7.4.11. Rest of Asia-Pacific AC Drives Market
 - 7.4.11.1. Market Size and Forecast, By Type
 - 7.4.11.2. Market Size and Forecast, By Voltage Type
 - 7.4.11.3. Market Size and Forecast, By Application
- 7.5. LAMEA
 - 7.5.1. Key Market Trends and Opportunities
 - 7.5.2. Market Size and Forecast, By Type
 - 7.5.3. Market Size and Forecast, By Voltage Type
 - 7.5.4. Market Size and Forecast, By Application
 - 7.5.5. Market Size and Forecast, By Country
 - 7.5.6. Brazil AC Drives Market
 - 7.5.6.1. Market Size and Forecast, By Type
 - 7.5.6.2. Market Size and Forecast, By Voltage Type
 - 7.5.6.3. Market Size and Forecast, By Application
 - 7.5.7. Saudi Arabia AC Drives Market
 - 7.5.7.1. Market Size and Forecast, By Type
 - 7.5.7.2. Market Size and Forecast, By Voltage Type
 - 7.5.7.3. Market Size and Forecast, By Application
 - 7.5.8. South Africa AC Drives Market
 - 7.5.8.1. Market Size and Forecast, By Type
 - 7.5.8.2. Market Size and Forecast, By Voltage Type

- 7.5.8.3. Market Size and Forecast, By Application
- 7.5.9. Rest of LAMEA AC Drives Market
 - 7.5.9.1. Market Size and Forecast, By Type
 - 7.5.9.2. Market Size and Forecast, By Voltage Type
 - 7.5.9.3. Market Size and Forecast, By Application

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top Winning Strategies
- 8.3. Product Mapping of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top Player Positioning, 2023

CHAPTER 9: COMPANY PROFILES

- 9.1. Bharat Bijlee Limited
 - 9.1.1. Company Overview
 - 9.1.2. Key Executives
 - 9.1.3. Company Snapshot
 - 9.1.4. Operating Business Segments
 - 9.1.5. Product Portfolio
 - 9.1.6. Business Performance
 - 9.1.7. Key Strategic Moves and Developments
- 9.2. P G Drive
 - 9.2.1. Company Overview
 - 9.2.2. Key Executives
 - 9.2.3. Company Snapshot
 - 9.2.4. Operating Business Segments
 - 9.2.5. Product Portfolio
 - 9.2.6. Business Performance
 - 9.2.7. Key Strategic Moves and Developments
- 9.3. Amtech ELECTRONICS India Limited
 - 9.3.1. Company Overview
 - 9.3.2. Key Executives
 - 9.3.3. Company Snapshot
 - 9.3.4. Operating Business Segments
 - 9.3.5. Product Portfolio

- 9.3.6. Business Performance
- 9.3.7. Key Strategic Moves and Developments
- 9.4. Yaskawa
 - 9.4.1. Company Overview
 - 9.4.2. Key Executives
 - 9.4.3. Company Snapshot
 - 9.4.4. Operating Business Segments
 - 9.4.5. Product Portfolio
 - 9.4.6. Business Performance
 - 9.4.7. Key Strategic Moves and Developments
- 9.5. Danfoss
 - 9.5.1. Company Overview
 - 9.5.2. Key Executives
 - 9.5.3. Company Snapshot
 - 9.5.4. Operating Business Segments
 - 9.5.5. Product Portfolio
 - 9.5.6. Business Performance
 - 9.5.7. Key Strategic Moves and Developments
- 9.6. Symbiotic Systems
 - 9.6.1. Company Overview
 - 9.6.2. Key Executives
 - 9.6.3. Company Snapshot
 - 9.6.4. Operating Business Segments
 - 9.6.5. Product Portfolio
 - 9.6.6. Business Performance
 - 9.6.7. Key Strategic Moves and Developments
- 9.7. Gennext Control
 - 9.7.1. Company Overview
 - 9.7.2. Key Executives
 - 9.7.3. Company Snapshot
 - 9.7.4. Operating Business Segments
 - 9.7.5. Product Portfolio
 - 9.7.6. Business Performance
 - 9.7.7. Key Strategic Moves and Developments
- 9.8. N. D. AUTOMATION
 - 9.8.1. Company Overview
 - 9.8.2. Key Executives
 - 9.8.3. Company Snapshot
 - 9.8.4. Operating Business Segments

- 9.8.5. Product Portfolio
- 9.8.6. Business Performance
- 9.8.7. Key Strategic Moves and Developments
- 9.9. Zema Automation And Controls Pvt Ltd
 - 9.9.1. Company Overview
 - 9.9.2. Key Executives
 - 9.9.3. Company Snapshot
 - 9.9.4. Operating Business Segments
 - 9.9.5. Product Portfolio
 - 9.9.6. Business Performance
 - 9.9.7. Key Strategic Moves and Developments
- 9.10. Shenzhen Simphoenix Electric Technology Co., Ltd.
 - 9.10.1. Company Overview
 - 9.10.2. Key Executives
 - 9.10.3. Company Snapshot
 - 9.10.4. Operating Business Segments
 - 9.10.5. Product Portfolio
 - 9.10.6. Business Performance
 - 9.10.7. Key Strategic Moves and Developments

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