Hacksaw Blades Market Assessment, By Blade Type [Regular Hacksaw Blade, Raker Hacksaw Blade, Wavy Hacksaw], By Teeth Per Inch [14 TPI, 18 TPI, 24 TPI, 32 TPI], By Material Type [Aluminum, Brass, Mild Steel], By End-user [DIY, Professional], By Mechanism Type [Manual, Electric] By Region, Opportunities and Forecast, 2017-2031F

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Report description:

Hacksaw blades market globally is projected to witness a CAGR of 4.40% during the forecast period 2024-2031, growing from USD 1.05 billion in 2023 to USD 1.48 billion in 2031. The market is evolving due to various trends and technological advancements. Most modern hacksaw blades are made from a bi-metal design that combines high-speed steel (HSS) teeth with flexible backings, enhancing its durability and cutting efficiency. Manufacturers increasingly apply coatings such as titanium or cobalt to blades to improve wear resistance, reduce friction, and extend blade life. Some blades have variable pitch teeth to reduce vibration, increase cutting speed, and produce a smoother finish. Inclined tooth designs are becoming more common, improving chip evacuation and reducing the risk of jamming during cutting. Blades are being designed to provide more precise cuts, catering to industries that require high accuracy, such as aerospace and automotive. Multi-purpose blades that can cut through various materials, including metal, plastic, and wood, are gaining popularity.
Future innovations could include blade equipment with sensors that monitor wear and performance, providing users with real-time data for improved maintenance and efficiency, and advancements in 3D printing technology that could lead to more customizable hacksaw blades for specific cutting tasks and user preferences. Custom blades can be manufactured on demand to meet the specific needs of various industries, and future blades that may incorporate nanotechnology to improve hardness, wear resistance, and overall performance. Research into composite materials could lead to lighter and stronger blades. Companies tend to showcase their products, including all sorts of blades, at international exhibitions.
For instance, in March 2024, Soteck Corporation showcased its cutting equipment, including a range of saws designed for various

applications, at the 2024 cologne exhibition. The highlights of the showcased products included eco-friendly materials, expert consultation, advanced design, and performance.

Industrial Growth, Technological Advancements, and DIY Trend to Fuel Market Growth

The demand for hacksaw blades is closely tied to the growth of the manufacturing and construction sectors. As these industries grow, the need for precision cutting tools for components, including hacksaw blades rises. Advancements in materials such as bi-metal, carbide, and coated blades improve performance and durability, driving the market growth. Innovations such as variable pitch teeth, quick-change mechanisms, and ergonomic handles have led to increased adoption and usage. An increase in DIY projects and home improvement activities has increased the demand for tools such as hacksaws. The increased availability of hacksaw blades in retail stores and online makes them more accessible to consumers. The DIY trend has fueled the demand for electric hacksaw blades. Companies acting in cutting-edge technology are adding new product lines to attract customers and enhance the latest improved technology.

For instance, in October 2023, more cutting possibilities for professional users of corded and cordless band saws were introduced by Makita U.S.A., Inc. with the new bi-metal band saw blades such as E-13225, T-05599, T-05608, and T-05614. The band saw blades come in a set of three and can be purchased in various Teeth Per Inch (TPI) options to suit various cutting needs.

Enhanced Supply Chain and E-Commerce Platforms to Fuel Market Growth

The availability and cost of raw materials used in blade manufacturing, for instance, high-speed steel and carbide, affect production costs and market prices. Advancements in manufacturing processes and capabilities can improve product quality and efficiency, impacting market growth. The expansion and industrialization of the economy in the development market contributed to the increase in demand for cutting tools, including metal saw blades. Large-scale infrastructure projects and urban development contribute to the need for effective and sustainable cutting tools. The e-commerce platform allows manufacturers and retailers to reach users around the world and expand their market beyond local and regional boundaries. Customers from different regions can easily access a wide range of hacksaw blades without being restricted by geography. E-commerce platforms often offer detailed product descriptions, specifications, and reviews, which help customers make informed purchasing decisions. This transparency can build consumer trust and increase sales. This type of transparency leads to the update of the product and improvement.

For instance, in March 2022, PILANA Metal s.r.o upgraded its HANDY HACKSAW. This tool company has created a contoured handle with an enhanced locking mechanism for increased grip. The typical colors of the plastic handle are blue, black, or red. More OEM colors can be made upon request. Naturally, the blade can have a personalized private marking on it.

Increased Construction and Renovation Activities to Fuel the Professional Segment's Growth

The professional segment leads the share of the global hacksaw blades market. The DIY trend has declined as the aftereffects of COVID-19 are settling down. The rising construction and renovation activities across globe are fueling the demand for electric and hand tools including precision-based hacksaw blades and saws. Professional construction and renovation projects often require tools that can withstand heavy use. High-quality and durable hacksaw blades are essential for cutting through tough materials such as metal, PVC, and wood efficiently, which drive the demand in the professional segment. Professionals seek blades that offer precision, longevity, and superior cutting performance. As construction and renovation projects become more complex, the need for advanced blade technology to handle demanding tasks increases. Companies cater to professional requirements by introducing a long range of hacksaw blade products.

For instance, PILANA Metal s.r.o offers a long range of hacksaw blades, including hand hacksaw blades myros special, 8% cobalt HSS bimetal hand hacksaw blade, HSS bimetal hand hacksaw blades, HSS bimetal blades - special teeth, and 3% cobalt HSS flexible hand hacksaw blades. These blades come in various sizes and TPIs.

Asia-Pacific Dominates the Global Hacksaw Blades Market Share

Asia-Pacific leads the market due to higher construction and infrastructure development. Increased economic and construction activities lead the region to outgrow. Many countries in Asia-Pacific, such as China, India, and Southeast Asian nations, are experiencing rapid industrial growth. This involves building more infrastructure, expanding the manufacturing sector, and developing the construction industry, which calls for high-quality cutting equipment such as hacksaw blades. Asia-Pacific's urbanization propels massive building and remodeling projects, raising the need for a variety of equipment, including hacksaw blades. Numerous large-scale infrastructure projects are in the region, including bridges, highways, and skyscrapers. Strong and

dependable cutting equipment is required to handle the variety of materials involved in these tasks. Local businesses are growing their selection of hand tools, which include hacksaw blades.

For instance, in May 2022, India's Taparia Tools Ltd. announced the expansion of product line. The company is planning to strengthen the distributor network in several states further. It manufactured more than 3,000 tools and is continually expanding with many new products. The company showcases the latest product range in shopping malls and utility home product stores that are multiplying across the country. The company offers hacksaw blades with two different TPIs of carbon steel, all hands 18 TPI and 24 TPI.

Future Market Scenario (2024 - 2031F)

- Emerging economies, such as China and India, are building their advanced infrastructure along with industrial expansion, expected to garner market growth
- Advanced equipment manufacturing facilities with 3D modeling and modern testing techniques are anticipated to shape the market's future.
- The usage of two different materials to build strong, durable, and flexible hacksaw blades is projected to add value to the global market.

Key Players Landscape and Outlook

Key players are focusing on product differentiation through technological advancements, such as automation, IoT integration, and eco-friendly designs. It enhances operational efficiency and aligns with environmental sustainability goals. The construction sector is the largest segment, driven by urbanization and infrastructure development. Mobile screeners are emerging as the fastest-growing segment, largely due to the rising demand for recycling and sustainable practices.

For instance, in March 2024, Metso Oyj introduced Nordberg HP350e, a new addition to Nordberg HPe crusher series launched in 2023. The Nordberg HPe crushers' engineering aims to satisfy the mining and aggregate industries' ever-changing and demanding performance requirements. The latest crusher, HP350e, is a member of a larger class of crushers than HP200e, the initial crusher in the series.

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