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Asia-Pacific Tooling Market By Tool Type (Dies & Molds, Fixtures, Jigs, Gauges, Cutting Tools, Forming Tools, Others), By Material Type (Steel, Carbide, Ceramic, Diamond, Others), By Application (Forming, Machining, Casting, Cutting, Forging, Injection Molding), By End-User Industry (Automotive, Aerospace & Defense, Electronics, Oil & Gas, Construction, Industrial Machinery, Medical Devices, Others), By Country, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

Market Overview

The Asia-Pacific tooling market was valued at USD 82.31 billion in 2024 and is projected t%li%reach USD 129.39 billion by 2030, growing at a CAGR of 7.67% during the forecast period. The region's tooling sector is expanding rapidly, supported by the surge in manufacturing activity across countries such as China, India, Japan, and South Korea. As Asia-Pacific strengthens its role as a global manufacturing hub, the need for advanced tooling solutions—including dies, molds, cutting tools, jigs, and fixtures—continues t%li%rise. This growth is further accelerated by increasing investments in automotive, aerospace, electronics, industrial machinery, and consumer goods manufacturing. Government-led initiatives like “Make in India” and “Made in China 2025” are actively encouraging local production and technological upgrades. Additionally, the adoption of Industry 4.0 practices—including CNC machining, additive manufacturing, and smart factory technologies—is reshaping tooling processes

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t%li%improve efficiency, precision, and automation. With global OEMs and suppliers expanding operations in the region, the market for high-performance and customized tooling solutions is expected t%li%see sustained growth.

Key Market Drivers

Expanding Manufacturing Sector

The Asia-Pacific region's continued rise as a global center for manufacturing is a major driver of tooling market growth. Countries such as China, India, Japan, and South Korea are investing heavily in production infrastructure, aided by supportive trade policies, rising domestic demand, and increasing foreign direct investments. Government programs like “Made in China 2025” and “Make in India” are catalyzing high-tech industrial growth, creating strong demand for precision tooling equipment. The automotive, electronics, and aerospace industries are especially instrumental in this expansion, requiring advanced tools t%li%meet evolving production standards. As production scales up and supply chains localize, the need for high-quality, efficient tooling systems is expected t%li%continue rising across the region.

Key Market Challenges

Skilled Labor Shortage and Technical Gaps

The Asia-Pacific tooling industry faces a significant skills shortage, particularly in precision engineering and advanced tool manufacturing. Although the region produces a high volume of engineering graduates, many lack hands-on experience or training in modern digital tooling technologies like CNC, CAD/CAM, and robotics. This gap is more acute in emerging economies such as Vietnam and Indonesia, where traditional manufacturing practices still dominate. The migration of experienced professionals t%li%higher-paying global markets further exacerbates this shortage. Without well-established vocational programs or strong industry-academia collaboration, many companies must invest in costly internal training or imported expertise, hindering efficiency and innovation, especially for high-precision or specialized tooling applications.

Key Market Trends

Expansion of Tooling for Electric Vehicles (EVs)

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The growing electric vehicle market in Asia-Pacific is creating strong demand for specialized tooling designed for lightweight and complex EV components. Unlike traditional ICE vehicles, EVs require tooling tailored t%li%materials like aluminum and composites. Toolmakers in countries such as China, South Korea, and Japan are at the forefront of designing high-precision tools for battery systems, electric drive units, and other critical EV parts. These tools must meet strict standards for surface quality and dimensional accuracy. Additionally, simulation-based design, modular tooling systems, and digital twin technologies are becoming key t%li%supporting rapid EV innovation cycles. This trend is further supported by government incentives for EV manufacturing and local sourcing requirements, creating new growth avenues for tooling companies throughout the region.

Key Market Players

Sandvik AB

Kennametal Inc.

DMG Mori Co., Ltd.

ISCAR Ltd.

Robert Bosch GmbH

Stanley Black & Decker, Inc.

MAPAL Dr. Kress KG

Kyocera Corporation

Sec%li%Tools AB

Guhring Inc.

Report Scope:

In this report, the Asia-Pacific Tooling Market has been segmented int%li%the following categories, in addition t%li%the industry trends which have als%li%been detailed below:

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Asia-Pacific Tooling Market, By Tool Type:

Dies & Molds

Fixtures

Jigs

Gauges

Cutting Tools

Forming Tools

Others

Asia-Pacific Tooling Market, By Material Type:

Steel

Carbide

Ceramic

Diamond

Others

Asia-Pacific Tooling Market, By Application:

Forming

Machining

Casting

Cutting

Forging

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Injection Molding

Asia-Pacific Tooling Market, By End-User Industry:

Automotive

Aerospace & Defense

Electronics

Oil & Gas

Construction

Industrial Machinery

Medical Devices

Others

Asia-Pacific Tooling Market, By Country:

China

Japan

India

South Korea

Australia

Singapore

Thailand

Malaysia

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Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Asia-Pacific Tooling Market.

Available Customizations:

Asia-Pacific Tooling Market report with the given market data, TechSci Research offers customizations according t%li%a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up t%li%five).

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