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Europe & CIS Automotive Forging Market By Material (Aluminium, Steel, Others), By Component (Gears, Piston, Bearing, Axel, Connecting Roads, Crankshaft, Others), By Vehicle Type (Passenger Cars, Commercial Vehicle), By Country, Competition, Opportunities & Forecast, 2020-2030F

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Abstracts

Market Overview:

Europe & CIS Automotive Forging Market was valued at USD 16.67 Billion in 2024 and is expected to reach USD 21.54 Billion by 2030 with a CAGR of 4.37% during the forecast period. The Europe & CIS automotive forging market is experiencing notable transformation driven by rising demand for lightweight and high-strength components, stringent fuel efficiency standards, and the growing integration of hybrid and electric drivetrains. Forging plays a pivotal role in improving vehicle performance, safety, and durability while supporting weight reduction targets through advanced materials like aluminum and high-strength steel. Technological advancements in closed-die and precision forging are enhancing production efficiency, enabling the creation of complex shapes with minimal waste. The market is also witnessing trends such as the automation of forging lines, integration of IoT-based monitoring systems, and shift towards near-net-shape forging to minimize post-processing.

Market Drivers

Lightweighting Demand in Automotive Engineering

The global push for improved fuel efficiency and reduced emissions is intensifying the

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demand for lightweight vehicle components, significantly driving the growth of the automotive forging market. Forged parts, especially when produced using aluminum or advanced high-strength steel, offer an excellent balance of reduced weight and increased mechanical performance. Automakers are under constant pressure to enhance vehicle efficiency without compromising structural integrity or crashworthiness, making forged components ideal for critical areas like suspension systems, crankshafts, and connecting rods. Lightweighting is not just limited to passenger vehicles; commercial and utility vehicles are also undergoing similar transformations to comply with emission norms and to improve payload capacity. Forging offers superior material utilization and denser grain structures that enhance fatigue resistance and load-bearing capabilities key characteristics for vehicles seeking long-term durability. For instance, Lightweight advanced materials such as high-strength steel, aluminum alloys, magnesium alloys, carbon fiber, and polymer composites play a critical role in improving vehicle fuel economy by reducing overall weight. Replacing conventional cast iron and steel components in the body and chassis with these materials can lower vehicle weight by up to 50%, leading to significant efficiency gains. A 10% reduction in vehicle weight is associated with a 6%–8% improvement in fuel economy, making lightweight material adoption a key strategy for enhancing performance and meeting fuel efficiency targets without compromising safety.

Key Market Challenges

High Capital and Operational Costs

One of the primary challenges facing the automotive forging market is the high capital investment required for setting up and maintaining forging operations. The purchase of forging presses, hammers, induction heaters, dies, and automated handling systems demands substantial upfront expenditure. Operational costs are also elevated due to the energy-intensive nature of forging, particularly in heating, die lubrication, and cooling systems. Frequent die maintenance and replacement, along with downtime during tool changes, further increase cost pressure. Forging also requires highly skilled technicians and engineers to operate complex machinery, perform quality checks, and manage equipment lifecycles.

Key Market Trends

Integration of Smart Forging Technologies

Smart manufacturing is increasingly being adopted in forging facilities to enhance

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productivity, traceability, and quality control. The integration of IoT sensors, machine learning algorithms, and real-time data analytics allows forging operators to monitor temperature, pressure, die wear, and energy consumption at granular levels. These smart systems can predict equipment failures, optimize die life, and adjust process parameters dynamically to maintain consistent part quality. Digital twins replicate forging operations in a virtual environment, enabling pre-production simulations, die stress analysis, and real-time process improvements. With these technologies, companies can achieve tighter tolerances, reduce material waste, and improve response times to design changes. Cloud-based dashboards provide actionable insights into production bottlenecks and operator performance, helping forge shops achieve leaner workflows. Smart forging aligns with the automotive industry's push toward Industry 4.0, where connected manufacturing systems are key to maintaining flexibility and meeting custom part requirements.

Key Market Players

Nanjin Automobile Forging Co Ltd

ThyssenKrupp AG

Bharat Forge Limited

Meritor Inc

Aichi Forge USA Inc

Kovarna Viva

CIE Automotive SA

Dana Inc

NTN Corporation

American Axle & Manufacturing Inc

Report Scope:

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In this report, the Europe & CIS Automotive Forging Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Europe & CIS Automotive Forging Market, By Material:

Aluminium

Steel

Others

Europe & CIS Automotive Forging Market, By Component:

Gears

Piston

Bearing

Axel

Connecting Roads

Crankshaft

Others

Europe & CIS Automotive Forging Market, By Vehicle Type:

Passenger Cars

Commercial Vehicle

Europe & CIS Automotive Forging Market, By Country:

Germany

Russia

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France

Spain

Italy

United Kingdom

Poland

Rest of Europe & CIS

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Europe & CIS Automotive Forging Market.

Available Customizations:

Europe & CIS Automotive Forging Market report with the given market data, Tech Sci Research offers customizations according to the company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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