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North America Industrial Lubricants for Machine Tools Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Base Oil (Mineral Oil, Synthetic Oil, and Bio-based Oil), By Product Type (Spindle Oils, Hydraulic Oils, Way or slideway Oils, Gear Oils, and Others), By Function (Lubrication and Wear Reduction, Cooling or Heat Dissipation, Chip or Swarf Removal, Corrosion or Rust Protection, and Others), By Application (Machine Slides or ways, Hydraulic System, Spindle Bearings, Gearboxes, and Others), and Country

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Abstracts

The North America industrial lubricants for machine tools market size was valued at US$ 159.91 million in 2024 and is projected to reach US$ 204.22 million by 2031; it is expected to register a CAGR of 3.8% from 2025 to 2031.

North America has a well-established base of automotive, aerospace, heavy machinery, and metal fabrication industries, all of which rely on machine tools for precision manufacturing. Continuous operation of CNC machines, lathes, milling machines, and grinding equipment requires high-performance lubricants to reduce friction, manage heat, and minimize tool wear.

The growing adoption of advanced manufacturing technologies, including automation

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and smart machining systems, is increasing the need for specialized lubricants that can perform under high speeds, tighter tolerances, and demanding operating conditions. Regulatory focus on workplace safety and environmental compliance is shaping market dynamics, encouraging the use of low-toxicity, biodegradable, and high-efficiency lubricant formulations.

Manufacturers are prioritizing equipment longevity and reduced downtime to control production costs, supporting the use of premium industrial lubricants. The expansion of maintenance, repair, and overhaul activities, particularly in aerospace and industrial equipment sectors, reinforces market growth.

As industries integrate green initiatives into their operations, there is a preference for lubricants derived from renewable resources that reduce environmental impact throughout their lifecycle. Bio-based formulations utilize vegetable oils or other renewable feedstocks, offering comparable or superior performance to conventional petroleum-based lubricants while being readily biodegradable. This characteristic is advantageous in applications where accidental spills or leaks could directly affect soil or water sources, such as in agriculture, forestry, and marine operations.

Regulatory incentives and stricter environmental standards encourage the adoption of eco-friendly lubricants, creating an expanding niche for suppliers with expertise in sustainable product development. In addition to ecological benefits, bio-based lubricants can enhance corporate sustainability profiles, supporting companies' environmental, social, and governance (ESG) objectives and improving public perception. Technological advancements in additive chemistry and synthetic modifications have increased the operational reliability and thermal stability of biodegradable products, expanding their applicability to heavy-duty machinery and high-performance industrial processes. As industries across North America pursue sustainability without compromising efficiency, the demand for bio-based and biodegradable lubricants is expected to grow, offering opportunities for innovation, differentiation, and the introduction of specialized product lines catering to environmentally conscious operations.

Some of the key players operating in the North America industrial lubricants for machine tools market are BP plc, Chevron Corp, Exxon Mobil Corp, TotalEnergies SE, Fuchs SE, Repsol SA, Shell plc, Quaker Chemical Corp (Quaker Houghton), DuBois Chemicals Inc, and Phillips 66.

The overall North America industrial lubricants for machine tools market size was

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derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information about the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights into the topic. Participants in this process include industry experts, such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants, such as valuation experts, research analysts, and key opinion leaders, specializing in the North America industrial lubricants for machine tools market.

Reason to buy

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the North America Industrial Lubricants for Machine Tools market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the North America Industrial Lubricants for Machine Tools market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth North America Industrial Lubricants for Machine Tools market trends, along with factors driving the market, as well as those hindering it

Enhances the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution

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