

Waterjet Cutting Machine Market Assessment, By Offering [Hardware, Software, Service], By Waterjet Type [Abrasive, Non-Abrasive], By Product [Micro, 3D, Robotic], By End-user [Automotive, Aerospace, Food and Beverage, Others], By Region, Opportunities and Forecast, 2018-2032F

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Report description:

Global waterjet cutting machine market is projected to witness a CAGR of 6.29% during the forecast period 2025-2032, growing from USD 1.43 billion in 2024 to USD 2.32 billion in 2032.

The waterjet cutting machine market is observing significant growth in terms of versatility, precision, and no heat damage to the cut range. The current trends, therefore, mark the trend of growing adoption for advanced abrasive waterjet systems for high tolerance cutting capabilities across various sectors ranging from aerospace and automotive to healthcare sectors. Sustainability has become a focus area, with manufacturers now adopting technologies to reduce water and abrasive consumption, thereby also reducing waste and the potential environmental impact. Automation and IoT integration are changing how things work, providing increased monitoring and predictive maintenance along with greater efficiency.

Advances in ultra-high-pressure systems would mean the market could expect to witness higher cutting speeds and, therefore, higher productivity. The integration of artificial intelligence and machine learning will further optimize the cutting process and material consumption. There is a trend towards portable, compact waterjet systems designed for small-scale operations or on-site applications. As industries focus on precision and cost-effectiveness, demand for bespoke solutions is estimated to surge. New applications in the realm of renewable energy are being developed in wind turbine cutting material, and growth is expected in these types of applications. Innovation and sustainability will be the directions driving the evolution of this waterjet cutting machine market, with key players focusing on launching technologically advanced products.

For instance, in May 2023, Flow International Corporation launched the Mach 200c waterjet system, which introduced advanced level and five-axis cutting capabilities. These cutting-edge technologies set new standards in the industry, allowing for the fabrication of complex parts with precision. The Mach 200c signifies a new era in waterjet innovation, offering quicker and more

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precise 5-axis cutting capabilities, all while being available to a broader spectrum of users.

Wide Range of Industries and Environmental Safety Fuel Market Growth

Waterjet cutting machines are highly appreciated for their ability to cut various materials, ranging from metals, composites, glass, and ceramics, without causing heat damage or deformation of the materials. Its versatility in different applications has seen its use in aerospace, automotive, construction, and healthcare, where accuracy and cleaning finishes are emphasized. The increasing use of advanced materials such as carbon fiber and reinforced composites increases the demand for waterjet systems. Moreover, the sectors demanding complex or intricate designs are looking towards waterjet technology, which continues to fuel growth in the market. It provides a competitive advantage over other cutting technologies as it accommodates hard and soft materials. The growth towards more sustainable manufacturing processes has made waterjet cutting more inclusive. Modern waterjet systems produce minimal hazardous waste, eliminate chemicals, and use water and abrasives, which can often be recycled. Many of the newer systems are also designed to reduce water and abrasive usage, which helps alleviate environmental concerns and reduces operational costs. Industries are increasingly focusing on green technologies as more stringent regulations and sustainability goals call for the same. One major driving force behind the growing emphasis on eco-friendly production practices is the global move toward reducing the environmental impact of industrial processes. Companies work on higher efficiency to make the waterjet cutting machines sustainable.

For instance, in September 2022, KMT Waterjet Systems Inc. introduced the KMT PRO 50 waterjet pump as part of its New Generation waterjet technology. The KMT PRO 50 pump, functioning at 9,000psi/6,200bar/50hp, is now accessible for purchase worldwide. This pump provides a variety of distinctive advantages, such as a 40% enhancement in cutting speed compared to conventional 60,000psi/4,100bar 50hp waterjet systems. Furthermore, the KMT PRO 50 consumes up to 50% less abrasive garnet and greatly lowers water and electricity usage, leading to a daily time savings of three hours in operational work.

Technological Advancements and Precision Manufacturing Shape Market Growth

Innovative upgrades in waterjet cutting are driving the market growth. Recently developed ultra-high-pressure systems, allow faster and more accurate cuts, which enhance operational efficiency. Automated and IoT integration enables real-time monitoring, analytics, and predictive maintenance and enhances the system's reliability with low times at a standstill. Artificial intelligence is used to optimize cut paths and material usage while upgrading software for user-friendly performance. These technological advancements are making waterjet systems more efficient and accessible to a wider range of industries and applications, which drives their adoption in small as well as large-scale manufacturing setups.

Precision manufacturing is becoming increasingly important in industries such as aerospace, healthcare, and electronics, where exact specifications and minimal tolerances are required. Waterjet cutting has a unique advantage which provides high-accuracy cuts without thermal distortion or material weakening. This makes it ideal for delicate or high-value materials and components. As industries adopt lean manufacturing practices and focus on reducing material wastage, the demand for waterjet systems is rising. In addition to these, emerging applications in the renewable energy sector, cutting materials for wind turbines, and solar panels are again pushing the demand for sharp and reliable cutting technologies such as automated waterjets.

For instance, in July 2024, Flex Machine Tools presented its innovative waterjet technologies FABTECH 2024. Flex showcased its innovative, automated waterjet solution. The precise FlexJet Waterjet FL-0404 is equipped with an IGEMS CNC control, CAD/CAM software and hardware including the advanced Tilter 5-Axis waterjet cutting head, Snapper camera for optimal positioning, Rounder kinematic compensation tool, and Straighter perpendicular angle tool.

Advanced Cold Cutting Process and Precision to Make Abrasive Segment Leading

Based on waterjet type, the abrasive segment holds the biggest portion of the waterjet cutting machine market due to versatility and usage in the cold cutting process. Abrasive waterjet cutting can handle a variety of materials, including metals, composites, ceramics, and glass. This adaptability makes it suitable for diverse applications ranging from automotive parts to intricate designs in metal fabrication. The process produces narrow cuts with minimal kerf loss, allowing for efficient material usage. It also avoids heat-affected zones (HAZ), which can distort materials during cutting. This precision eliminates the need for additional finishing processes, thereby enhancing overall productivity.

The automotive industry is one of the largest consumers of abrasive waterjet cutting machines. These machines are employed for cutting various components such as carpets, dashboards, and glass parts. The flexibility and automation capabilities of waterjet systems significantly improve manufacturing processes in this sector. In aerospace applications, the ability to cut complex shapes

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from high-strength materials makes abrasive waterjet cutting essential for producing components that meet stringent safety and performance standards.

In August 2024, an IIT Madras-backed start-up designed India's first abrasive waterjet machine which can be used for cutting combustible materials without generating heat and can play a major role in the semiconductor, aviation, defense, and diamond industries. Supported by Startup TN, the machine was designed and developed by Guhan Industries and Manufacturing Solutions (GIMS) with the help of NIRMAAN IIT-M'S flagship initiatives to support product ideas by students.

North America Becomes the Biggest Region in the Waterjet Cutting Machine Market

North America leads the waterjet cutting machine market due to its strong industrial foundation, characterized by a diverse range of manufacturing sectors, including automotive, aerospace, and electronics. The region benefits from the presence of major manufacturers and innovators in waterjet technology, which fosters advancements in cutting efficiency and precision.

Additionally, the demand for high-quality, environmentally friendly cutting solutions aligns well with the region's focus on sustainable manufacturing practices. The integration of advanced technologies and automation within North American industries further enhances the appeal of waterjet cutting machines, solidifying the region's position as a key player in the global market.

For instance, in June 2024, WAZER Inc. announced the launch of WAZER Pro, its most powerful and productive waterjet, enabling any shop to cut parts in-house in any material. The company expands its product portfolio with WAZER Pro, a high-performance waterjet that brings high cutting power and productivity in a small footprint that is accessible to any shop.

Future Market Scenario (2025 – 2032F)

□□The waterjet cutting machine market is expected to see significant advancements in automation and AI integration, enhancing precision and operational efficiency.

□□The growing preference for eco-friendly cutting technologies is likely to be driven by the need for sustainable manufacturing practices and minimal waste production.

□□Ongoing innovations in high-pressure technology and nozzle design are projected to improve the performance and versatility of waterjet cutting machines.

□□Increased adoption of waterjet cutting machines across various sectors, including automotive and aerospace, is anticipated to fuel market growth.

Key Players Landscape and Outlook

In the competitive waterjet cutting machine market, companies are focusing on differentiation through innovation, cost-efficiency, and tailored solutions. Emphasis on developing ultra-high-pressure systems and integrating automation, IoT, and AI has become a critical strategy to meet the growing demand for precision and efficiency. Additionally, many manufacturers are investing in eco-friendly technologies to align with sustainability goals and appeal to environmentally conscious industries. Expanding service offerings, such as maintenance and training programs, is another approach to enhancing customer loyalty. Competitive pricing, coupled with value-added features like user-friendly interfaces and modular designs, is also shaping market dynamics, fostering customer retention and growth.

For instance, in March 2022, Omax Corporation (Hypertherm Associates) launched OptiMAX, an advanced waterjet designed for quickly turning prints into parts with reduced dependency on highly experienced operators. The OptiMAX represents the peak of thirty years of OMAX engineering knowledge and user insights, tailored for manufacturers seeking a flexible, user-friendly cutting system to enhance their operational efficiency and capability.

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