How Additive Manufacturing is Transforming the Machining Market

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NEW YORK, NY, USA, October 18, 2023 /EINPresswire.com/ -- Dedalus Consulting (www.dedalusconsulting.com) has recently updated Cutting Tools: World Markets, End-Users & Competitors: 2022-2028 Analysis & Forecasts — Complete 4 Volume Set, the 11th edition of Dedalus' in-depth research on the global cutting tools industry, covering the market over the next five years through 2028.

The machining market is being revolutionized by the emergence of additive manufacturing (AM). AM is a 3D printing process that creates parts by adding material layer-by-layer, as opposed to traditional methods like milling or turning. This technology has provided amazing opportunities for manufacturers, allowing them to create complex parts with extraordinary accuracy and efficiency.

Some key trends include:

- Advances in CAD software have enabled engineers and designers to create more intricate geometries with greater ease. This allows companies to design parts that would be impossible or too costly to manufacture with traditional methods.

- Specific innovations include the production of a lightweight, optimally cooled, and performance-enhanced indexable drill. The customization achievable with AM has resulted in drills that are uniquely tailored to their application, improving the productivity and lifespan of the tool. Another example is the creation of a new line of PCD-tipped milling cutters. By applying layer-by-layer construction, these tools have intricately designed chip grooves that efficiently evacuate chips and reduce tool wear, substantially boosting the tool's operational life.

- 3D printers are becoming increasingly powerful and capable of printing complex parts from

materials ranging from plastic to steel alloys. This technology has allowed manufacturers to quickly produce prototypes or production quality parts without the need for expensive tooling or long lead times associated with other processes such as machining or injection molding. Furthermore, AM processes can reduce production costs by eliminating waste materials and streamlining assembly processes.

- As more companies adopt additive manufacturing technologies, competition in the machining market is increasing significantly. Companies are now competing on cost, speed of delivery, product quality, and overall customer experience when producing components or assemblies using these technologies.
Additive manufacturing has not only revolutionized the machining market but has also inspired a paradigm shift in the cutting tools market. Companies are demonstrating the immense potential of AM, producing tools that are more efficient, durable, and tailored to specific applications. As the technology continues to evolve, it's expected to further disrupt the market and offer greater opportunities for innovation in cutting tools manufacturing.

More Information & How to Order

For more information about this report, please:
- navigate to the report page: Cutting Tools: World Markets, End-Users & Competitors: 2022-2028 Analysis & Forecasts;
- learn more about our Ulysses Data Subscription Service (USS) , which covers the market through 2040;
- send us a Research Enquiry;
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Our research focuses on both emerging and mature markets in high-technology sectors, including tooling and machining, advanced materials, frequency control and timing, surge and circuit protection, energy and renewables, life sciences, and next generation computing. Research is continually updated through a methodology that is based on primary interviews with market participants, including manufacturers, end-users, research institutions, distribution channel representatives and service providers.

Our clients range from Fortune 500 companies to private equity and investment banking institutions to academic research organizations engaged in the research, development and manufacturing of advanced technology products and services.

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