

Università degli Studi di Pavia Computational Mechanics & Advanced Materials Group - DICAr



Innovative Rapid Tooling in Additive Manufacturing or Additive Manufacturing or Additive Manufacturing Processes

In today's market, a significant portion is driven by the demand for highly customized products with reduced production times. As a result of this customization, there has been a shift towards medium or low batch production, rendering traditional processes like casting and forming economically unsustainable due to the initial investment required for tool production. Conversely, producing goods directly using additive manufacturing processes can also be costly if the production volume is in the hundreds, and this method undoubtedly leads to an increased production time due to the layering approach characteristic of these processes. Rapid tooling represents a hybrid approach, combining the production of tools for traditional processes with additive manufacturing. This strategy could be the optimal solution to achieve faster production times while keeping conventional processes economically viable, even as production rates decrease.



Machining

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Micro Injection moulding



Sheet Metal forming

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