

Tritone Pro-Tips

GAINED EFFICIENCY: GREEN PART PROCESSING



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THE CHALLENGE

Additive Manufacturing (AM) encloses a various range of novel technologies and manufacturing processes. The challenge is to achieve a high-quality and repeatable output of parts in an industrial production scale, and economically efficient.



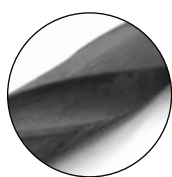
SOLUTION

MoldJet technology presents an innovative approach utilizing metal and ceramic paste, enabling manufacturing in a powder-free environment. The high throughput MoldJet process results in robust, high-strength green parts able to withstand up to 17MPa, with an isotropic shrinkage of approximately 13.8%. The high strength green part allowing machining, surface finish operations in a fraction of the time and cost compared to other AM technologies.

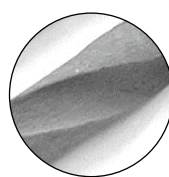
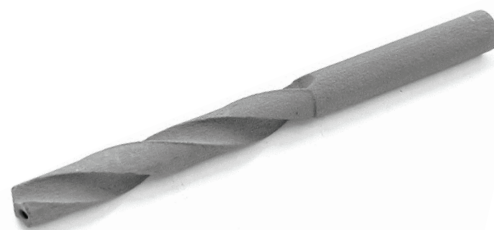


SUCCESS

- ▶ Post processing on green parts
- ▶ Powder Free Production:
 - Generates more uniform and high-quality results
 - No need for instruments and safety equipment
- ▶ Minimal post process for sintered parts
- ▶ Improved surface finish
- ▶ Cost reduction on machining



Green part BEFORE
post surface finishing



Green part AFTER
post surface finishing

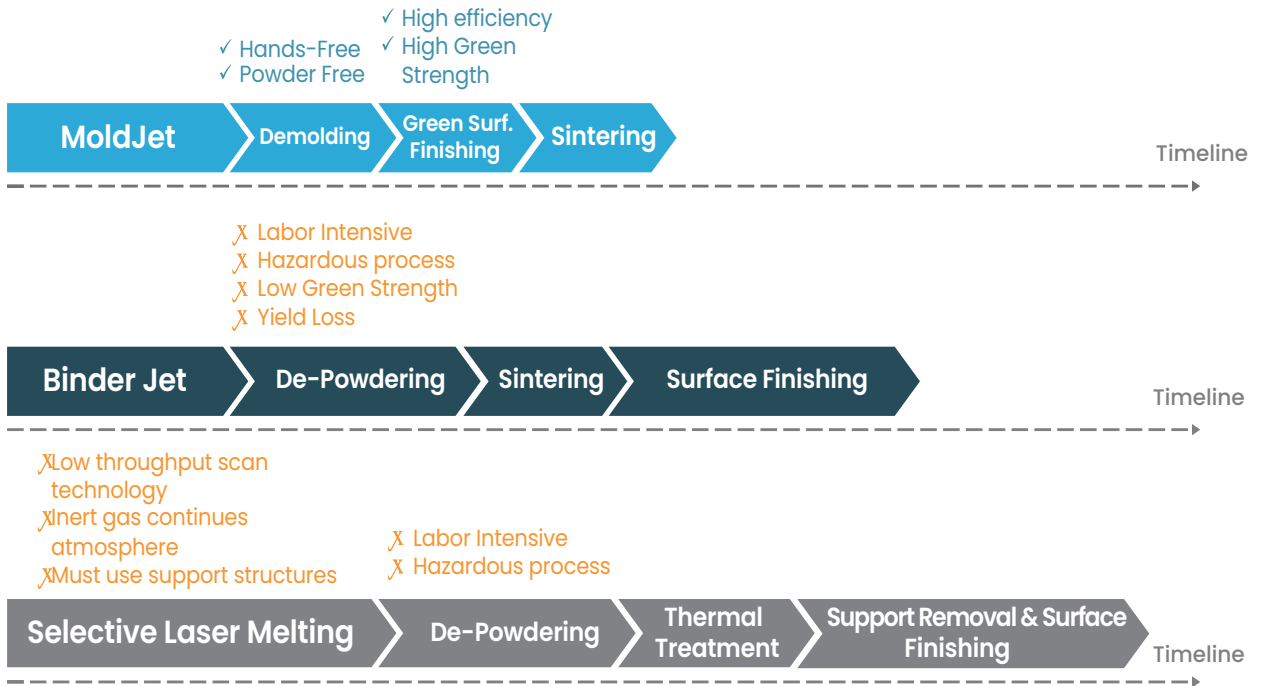
Next Pro-Tip: Review of Green Parts Operations

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BENEFITS VS. OTHER AM TECHNOLOGIES:

MoldJet, Binder Jet, and Selective Laser Melting benefit from surface finishing processes, but differ in their timelines. The distinguishing feature of MoldJet relies on the strength of its green parts allowing surface finishing to be conducted not only on the final part, but also during the green part stage.



▶ **MOLDJET TECHNOLOGY PRESENTS AN INNOVATIVE APPROACH UTILIZING PASTE, THUS MANUFACTURING IN A POWDER-FREE ENVIRONMENT**