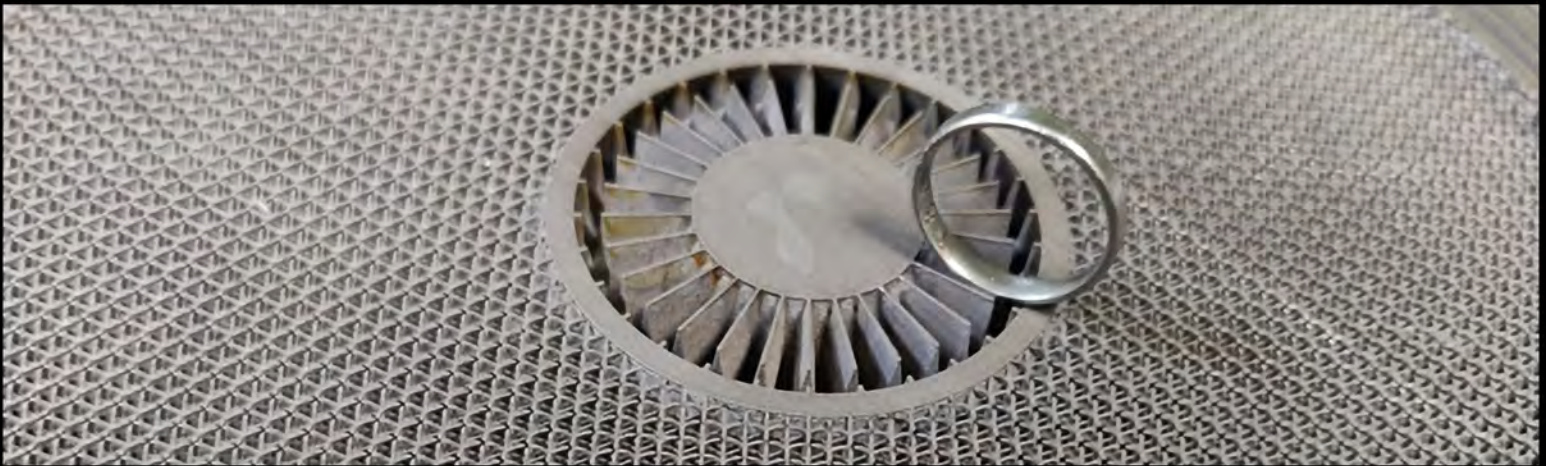


MANUFACTURING SOLUTIONS. ABSOLUTE INTEGRITY. EMPLOYEE OWNED.



ADDITIVE MANUFACTURING



STANDARD MATERIALS AVAILABLE

- 718
- 17-4
- 316L/304L
- Maraging 300
- H230
- Other materials available upon request



ENGINEERING SERVICES

- Design for AM
- AM Material Development
- Lattice Design
- Simulation



BUILD SERVICES

- Build Cutoff, Post processing, and Inspection
- Build plate resurfacing
- Build Plate fabrication

SOLUTIONS TO TAKE YOUR CONCEPTS TO PRODUCTION

PHONE: (724) 352-1507

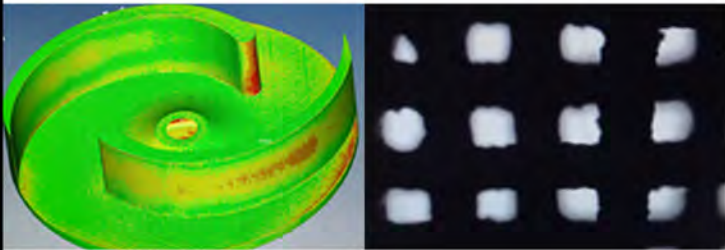
SALES@PENNUNITED.COM

WWW.PENNUNITED.COM

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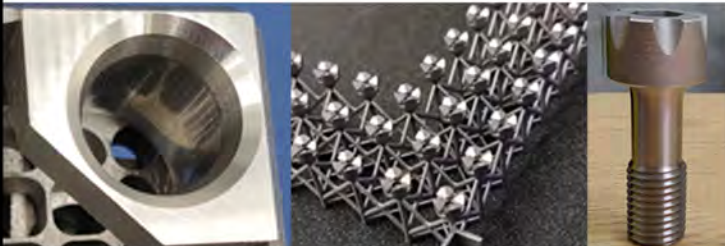


Penn United Technologies, Inc. offers manufacturing solutions for powder bed DMLS component development and production. We have the competencies to develop and additively manufacture your parts with the goal of creating value-added products qualified and validated to your production requirements. We support this process with an extensive collection of precision manufacturing capabilities including EDM, machining, grinding, heat treating, surface treatment, and metrology.



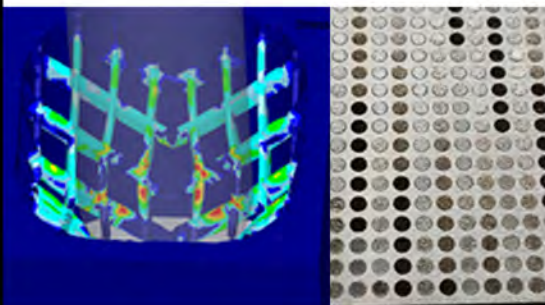
COMPREHENSIVE INSPECTION SERVICES

- Zeiss CMM
- Zeiss Comet 6
- OGP Smartscope
- Manufactured Hard Gages



PRECISION POST MACHINING OPERATIONS

- EDM +/- 0.0005"
- Grinding +/- 0.0001"
- Machining +/- 0.001



MATERIAL DEVELOPMENT, TESTING, AND SIMULATION

- Parameters developed for full density
- Optimized heat treatment processes
- New exotic material development