



**PRECISION
ENGINEERED
PRODUCTS**



Advanced Additive Manufacturing

Reinventing Product Development

OUR ADVANCED ADDITIVE MANUFACTURING CAPABILITIES ALLOW CUSTOMERS TO:

- Accurately produce parts directly from CAD data
- Produce complex geometries and new surface topologies that would be difficult or impossible to produce even with the most sophisticated computer numerical control (CNC) equipment
- Eliminate tooling costs
- Reduce lead times by up to several weeks
- Exceptional lot-to-lot consistency and traceability

Additive manufacturing is rapidly changing the design and production of many types of advanced performance products and materials.

At NN, Inc. Precision Engineered Products Group's (PEP) Additive Manufacturing Center of Excellence, we provide the deep expertise, state-of-the-art production facilities for customers in orthopedics, bioscience, aerospace, energy, and transportation industries.

PEP Group's DMLS machines — EOS M280 and EOS M290 — are each validated and dedicated to their respective materials of 17-4SS and Ti 6-4 ELI. Dedicating machines to a single material avoids the possible mixing of materials experienced by DMLS providers who routinely use multiple types of powders in a single DMLS machine

VALIDATED, PRECISE AND COST-EFFECTIVE

By leveraging additive manufacturing technologies, our customers reduce expensive tooling costs, significantly improve lead-times by up to several weeks, and enhance product performance both in production and in the field. Our experienced engineers leverage materials and application knowledge in support of successful prototypes and final products. All of our additive manufacturing machines have been validated based on installation qualification (IQ), operational qualification (OQ), and performance qualification (PQ) standards.

STATE-OF-THE-ART FACILITY

Our facility was designed around additive manufacturing technologies and also has a large laboratory that can be used for product evaluation, testing, and other

evaluation activities in support of customer's product development efforts.

With deep orthopedic expertise our customers can take advantage of a full suite of offerings designed to speed time-to-market and ensure device success.

EFFICIENTLY TRANSITION FROM PROTOTYPE TO TESTING TO FULL SCALE PRODUCTION

Rapidly transition your prototypes to functional testing and improve collaboration between designers and manufacturing process developers for efficiency.

CONTACT

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