ADDITIVE MANUFACTURING (AM)

Thin-wall foam hemi mounted on direct-drive capsule

Fabrication of unique parts that cannot be made any other way

Gradient density foams in spherical geometries
AM TARGETS FOR HED SCIENCE EXPERIMENTS

General Atomics employs a specific AM method known as two-photon-polymerization (2PP), among other techniques, in its target manufacturing activities.

In 2PP, focused, ultrashort laser pulses are directed into a volume of photosensitive material, or photoresist. The name comes from the specific chemical reaction, which involves polymerization through absorption of two photons at time.

2PP is capable of creating ultra-high resolution features on the order of ≤1 μm. GA has developed 2PP technology that can produce faster results with fewer defects over larger regions than competing methods.