Hexcel’s HexAM® additive manufacturing process combines high-performance thermoplastic with selective laser sintering (SLS) technology to produce fully functional HexPEKK® end-use components. HexPEKK® parts offer significant weight, cost and time-to-market reductions compared to incumbent metal or composite technologies while providing repeatable and validated engineering material properties.

**Superior Material**
- HexAM® additive manufacturing combines a high-performance PEKK thermoplastic with an aerospace-grade carbon fiber fill
- Fully qualified through America Makes, AFRL, NASA, Northrop Grumman and Boeing
- Excellent flammability, outgassing, smoke/toxicity performance
- Service temperature: ±300°F – appropriate metallic/composite replacement
- 600°F melt temperature
- Similar in specific strength to cast aluminum
- Compatible with all common aerospace fluids
- Density half of cast aluminum – excellent weight savings

**Superior Process**
- Assembly consolidation, multiple components sintered as a single piece
- Complexity of part geometry does not affect cost
- SLS (powder bed) process allows for large quantity of components in a single chamber approximately 660mm x 356mm x 534mm

**Benefits**
- No tooling required – lowers cost and lead time
- No touch labor required – quicker process than conventional machining
- Engineering changes do not require rework/redesign of tooling
- Optimization potential – improved weight savings and performance based on organic shapes
Production solutions for aftermarket components

HexAM® additive manufacturing is ideal for anything from low-rate customization parts to quick replacements of casting and composite ducts. HexPEKK® 3D-printed parts are the material of choice for drop-in replaceable, cost-competitive hardware.

Production Quality, Rapid Manufacturing

- AS9100
- OEM Supplier
- Qualified to BMS 8-401, BAC5692

Digital Definition

- Tooling free fabrication
- Competitive pricing from custom needs through to serial production
- Support legacy platforms by reverse engineering and printing hardware

Casting Replacements

- Part consolidation
- High complexity ducts
- Paintable surfaces for aesthetic or performance considerations

Ducts, Closeouts and Brackets

For more information, contact us at HexAM@hexcel.com or by calling +1 (860) 656-9492

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