



UAV PA12

This unmanned air vehicle (UAV) required a high stiffness to weight ratio for a stable, efficient flight. The creators also wanted a modular design that assembled precisely to aid in replacing broken parts.

The H350[®] 3D printer was chosen to build the frame and several components due to the accuracy and consistency of SAF[™] technology. PA12 material allowed for the precise, close fit clearances of 0.1mm along with accurate working threads and impact resistance for landings and potential collisions.

System	H350 [®] 3D Printer
Material	PA12
Build Time	7 hrs
Material Used	9 in ³ (148.5 cm ³) for 8 assemblies
Nesting Density	12% (12 full assemblies per build - 8 parts per drone, 96 total parts)