



Multi-Axis Machining Fixture

This multi-axis workholding fixture is used to machine a metal globe with topographical features, which is adhered to the fixture with Blue Photon workholding adhesive. The fixture was 3D printed with FDM® Nylon-CF10 composite material. FDM Nylon-CF10 combines chopped carbon fiber with a nylon blend, resulting in a very strong and rigid material capable of withstanding CNC machining loads. A metal fixture designed for this task would likely require multiple parts and setups. Instead, 3D printing with soluble support material allowed single-piece fabrication, saving time and cost over a machined fixture. FDM Nylon-CF10 is available on the F190™CR and F370®CR composite printers.

System	F370CR
Material	FDM Nylon-CF10
Slice Thickness	0.254 mm (0.010 in.)
Build Time	17h 55m
Model Material Used	450.82 cm ³ (27.51 in ³)
Support Material Used	70.30 cm ³ (4.29 in ³)

ISO 9001:2015 Certified

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