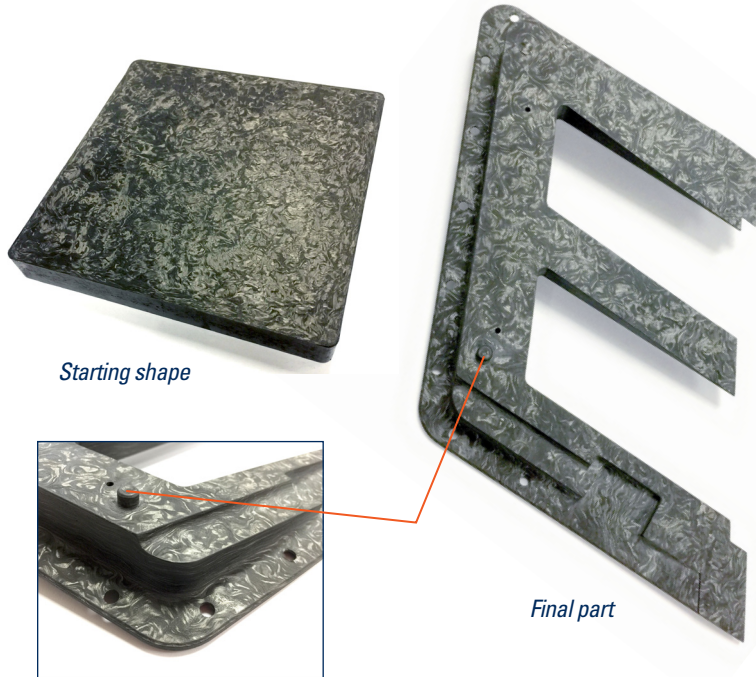


Cost-effective fabrication of thick composite structure with chopped fiber **billet stock**.



BILLET BLOCK SIZES

Typical Thickness 13–63.5 mm (0.5–2.5 in)

- › 15.2 x 15.2 cm (6" x 6")
- › 20.3 x 25.4 cm (8" x 10")
- › 30.5 x 30.5 cm (12" x 12")
- › 45.7 x 45.7 cm (18" x 18")
- › 35.6 x 71.1 cm (14" x 28")

TYPICAL APPLICATIONS

- › **Hard point attachments**
- › **Prototype/small-volume parts**
- › **Initial design of compression molded parts**
- › **Hard to fabricate complex composite parts**

MS-4H MECHANICAL PROPERTIES

Properties	Condition	Method	Results	
Tensile Strength	RT	TCAC STM 11025 [ASTM D 3039]	144 MPa	20.9 ksi
Tensile Modulus	RT	TCAC STM 11025 [ASTM D 3039]	29.8 GPa	4.3 Msi
Flexural Strength	RT	ASTM D 6272	387 MPa	56.1 ksi
Flexural Modulus	RT	ASTM D 6272	29.7 GPa	4.3 Msi
Compressive Strength	RT	ASTM D 6484 (No Hole)	271 MPa	39.3 ksi
Compressive Modulus	RT	ASTM D 6484 (No Hole)	38.3 GPa	5.6 Msi
Pin Bearing (Single Shear)	RT	ASTM D 5961 Method B	441 MPa	63.9 ksi

BENEFITS

- › **Part fabrication without the cost of tooling**
- › **Reduces the cost of thick composite laminate manufacturing**
- › **Provides significant labor efficiencies**
- › **Weight reduction of 40% over aluminum**

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