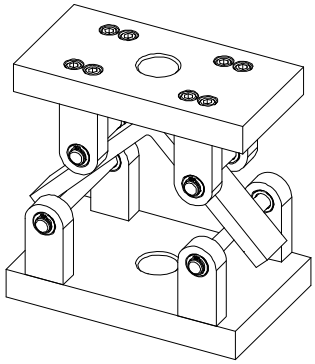
MTT

MODEL NO. ASTM.D6415.10

ASTM, CURVED, BEAM, FIBER, REINFORCED,

FOUR POINT BEND FIXTURE FOR COMPOSITE CURVED BEAMS (SS)



Specimen:	Width	Up to 1.0”
	Length	6.0”
Fixture:	Construction	Stainless steel
	Temperature	-240 to 600°F (-152 to 318°C)
	Mounting	1”-14 threaded coupling
	Capacity	10,000 lbs (44.4 kN)
	Weight	13 lbs
	Dimensions	6” x 3.75” x 6”
	Standard	Manufactured in accordance with ASTM D6415

Model No. ASTM.D6415.10 - Four Point Bend Fixture For Composite Curved Beams
Four point bend fixture incorporates 1/2” diameter loading points and roller bearings to allow the specimen to slide or move, if necessary, during testing. Four point upper loading span is fixed at 3” and lower support fixed span measures 4”. Accommodates specimens up to 1” wide. The fixture adapts to test machines with (2) 1” -14 threaded couplings. Constructed of stainless steel in accordance with ASTM D6415.

Material Testing Technology

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ACCESSORIES

Upper and lower fixture attachment is supplied with 1” -14 female coupling. (Common adapter sizes include:)

Model No. M03S36 - 1.25” Male Clevis (Type D) to 1” -14 Threaded Stud
Model No. S42S36 - 1.25” -12 to 1” -14 Threaded Step Stud
Model No. S48S36 - 1.5” -12 to 1” -14 Threaded Step Stud
Model No. S60S36 - 2” -12 to 1” -14 Threaded Step Stud
Model No. LN36 - 1” -14 Threaded Locking Nut with Knurled OD

SPARE PARTS

Contact us for spare or replacement parts

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

http://www.astm.org/Standards/D6415.htm
ASTM D6415 / D6415M - 06a(2013)
Standard Test Method for Measuring the Curved Beam Strength of a Fiber-Reinforced Polymer-Matrix Composite
1.1 This test method determines the curved beam strength of a continuous fiber-reinforced composite material using a 90° curved beam specimen (Fig. 1 and Fig. 2). The curved beam consists of two straight legs connected by a 90° bend with a 6.4-mm [0.25 in.] inner radius. An out-of-plane (through-the-thickness) tensile stress is produced in the curved region of the specimen when force is applied. This test method is limited to use with composites consisting of layers of fabric or layers of unidirectional fibers.
1.2 This test method may also be used to measure the interlaminar tensile strength if a unidirectional specimen is used where the fibers run continuously along the legs and around the bend.
1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.
1.4 The values stated in either SI units or inch-pound units are to be regarded separately as standard. Within the text the inch-pound units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.