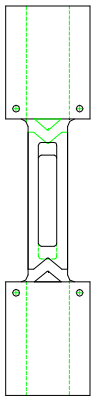
SINGLE SHEAR OPEN HOLE BEARING STRENGTH TEST FIXTURE (SS)



Specimen:	Width	1.5”
	Thickness	0.125 - 0.208” (3 - 5mm)
	Length	13.5”
Fixture:	Construction	Stainless steel
	Temperature	-240 to 600°F (-152 to 318°C)
	Mounting	Platen to platen or grips (not included)
	Capacity	50,000 lbs (222.4 kN)
	Weight	12 lbs approximately
	Dimensions	3” x 1.25” x 14” approximately
	Standard	Manufactured in accordance with ASTM D5961 and D7248

Model No. ASTM.D7248.20 - Single Shear Open Hole Bearing Strength Test Fixture (SS). Open access to the specimen through a cut out in the fixture halves allows observation of the specimen as the test progresses. The fixture has a 1.5" by 13.5" specimen configuration. The fixture is constructed of stainless steel in accordance with ASTM D7248, Method B. Temperature range: -240°F to 600°F (-152°C to 318°C)

Material Testing Technology

420 Harvester Court - Wheeling, IL. 60090 – Ph: (847) 215-7448 Fax: (847) 215-7449 E-mail: sales@mttusa.net

MODEL NO. ASTM.D7248.20
ASTM, BEARING BYPASS, POLYMER, MATRIX,

ACCESSORIES

Upper and Lower fixture attachment could be supported on a platen or flat surface of the test machine. (Common adapter sizes include:)
Model No. PLAT.RF061.10 - 6” Diameter Round Fixed Compression Platen
Model No. PLAT.RA061.10 - 6” Diameter Round Articulating Compression Platen
Model No. PLAT.SF061.10 - 6” Square Fixed Compression Platen
Model No. PLAT.SA061.10 - 6” Square Articulating Compression Platen
Model No. M03S36 - 1.25” Male Clevis (Tyep D) to 1” -14 Threaded Stud

SPARE PARTS

Contact us for spare or replacement parts

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

http://www.astm.org/Standards/D7248.htm
ASTM D7248 / D7248M - 12
Standard Test Method for Bearing/Bypass Interaction Response of Polymer Matrix Composite Laminates Using 2-Fastener Specimens
1.1 This test method determines the uniaxial bearing/bypass interaction response of multi-directional polymer matrix composite laminates reinforced by high-modulus fibers by either double-shear tensile loading (Procedures A and C) or single-shear tensile or compressive loading (Procedure B) of a two-fastener specimen. The scope of this test method is limited to net section (bypass) failure modes. Standard specimen configurations using fixed values of test parameters are described for each procedure. A number of test parameters may be varied within the scope of the standard, provided that the parameters are fully documented in the test report. The composite material forms are limited to continuous-fiber or discontinuous-fiber (tape or fabric, or both) reinforced composites for which the laminate is balanced and symmetric with respect to the test direction. The range of acceptable test laminates and thicknesses are described in 8.2.1.
1.2 This test method is consistent with the recommendations of MIL-HDBK-17, which describes the desirable attributes of a bearing/bypass interaction response test method.
1.3 The two-fastener test configurations described in this test method are similar to those in Test Method D5961/D5961M as well as those used by industry to investigate the bearing portion of the bearing/bypass interaction response for bolted joints, where the specimen may produce either a bearing failure mode or a bypass failure mode. Should the test specimen fail in a bearing failure mode rather than the desired bypass mode, then the test should be considered to be a bearing dominated bearing/bypass test, and the data reduction and reporting procedures of Test Method D5961/D5961M should be used instead of those given in this standard.
1.4 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.
1.4.1 Within the text the inch-pound units are shown in brackets.