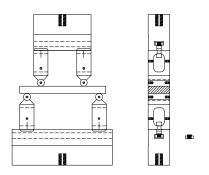


SHORT BEAM SHEAR AND THREE POINT FLEXURE FIXTURE HIGH CAPACITY





Specimen Width Any width up to 1.5"

Thickness Any thickness up to 2.0"

Length Any length up to 6" span

Fixture Support Spans Any span from 0.125" to 6.0"

Loading Radii 1/8"R (loading nose) 1/16"R (supports)

Construction High Strength Steel with Protective Finish

Temperature -120 to 250°F (-85 to 122°C)

Mounting 12mm male clevis Top, 1/2" -20 threaded coupling Bottom

5,000 lbs (22 kN)

Capacity 19 lbs

Weight Assembled - 2" x 7" x 8"

Dimensions Manufactured in accordance with ASTM D2344

Standard

Model No. ASTM.D2344.17-Short Beam Shear And Three Point Flexure Fixture High Capacity

Main Span: Infinitely adjustable from 1.0" to 6.0" (25.4mm to 410mm) Four Point Span: Infinitely adjustable from 1.0" to 3.0" (25.4mm to 77mm)

Three Point Loading Head: 0.50" (12.7mm) diameter roller

Support Width: 1.50" (38mm) Rollers: 0.50" (12.7mm) diameter

Roller width: 1.50"

Maximum deflection at mid span: 1.75" (45mm)

Adaption: M12-1.25 threaded coupling ends (studs and locking nuts)

Overall Size: 2.0" deep by 7.0" wide by 9.0" tall

Capacity: 7,000 lbf. (30 kN)

Construction: high strength steel with protective black oxide coating

Temperature Range: -120°F to 250°F (-85°C to 122°C)

Fixture is constructed from high strength steel with a protective black oxide finish in accordance with ASTM D2344.

MODEL NO. ASTM.D2344.17 ASTM, COMPOSITE, SHEAR

ACCESSORIES

Model No. ACC.D2344.1701 - Extra Loading Nose - Please specify diameter.

Model Nol. ACC.D2344.1702 - Extra Set of (2) Supports - Please specify diameter.

Model No. ACC.D2344.1703 - Fixed Span 4 Point Loading Nose - Please specify diameter.

<u>Upper and lower fixture attachment is supplied with 1/2" -20 female coupling (Common adapter sizes include:)</u>

Model No. M01S21 - 1/2" Male Clevis (Type B) to 1/2" -20 Threaded Stud

Model No. M02S21 - 5/8" Male Clevis (Type C) to 1/2" -20 Threaded Stud

Model No. M03S21 - 1.25" Male Clevis (Type D) to 1/2" -20 Threaded Stud

Model No. M12S21 - 12mm Male Clevis (Type O) to 1/2" -20 Threaded Stud

Model No. S36S21 - 1" -14 to 1/2" -20 Threaded Step Stud

Model No. LN21 - 1/2" -20 Threaded Locking Nut with Knurled OD

SPARE PARTS

SPA.D2344.1701- Replacement Bearings SPA.D2344.1702- Replacement Shaft

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

SCOPE: http://www.astm.org/Standards/D2344.htm ASTMD2344/D2344M-13

Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates

- 1.1 This test method determines the short-beam strength of high-modulus fiber-reinforced composite materials. The specimen is a short beam machined from a curved or a flat laminate up to 6.00 mm [0.25 in.] thick. The beam is loaded in three-point bending.
- 1.2 Application of this test method is limited to continuous- or discontinuous-fiber-reinforced polymer matrix composites, for which the elastic properties are balanced and symmetric with respect to the longitudinal axis of the beam.
- 1.3 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 must be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.
- 1.4 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. Extracted, with permission, from ASTM D2344 Standard Test Methods of Static Tests of Lumber in Structural Sizes, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19482. A copy of the complete standard may be purchased from ASTM International, www.astm.org.