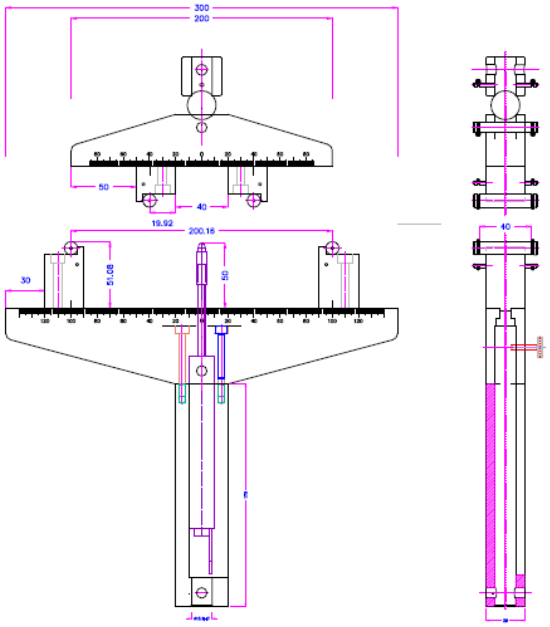
ASTM C1341 Four Point Bend Fixture

The GC1341-238 Four Point Bend Fixture tests fiber reinforced ceramic composites in accordance with ASTM standard C1341. ASTM C1341 asks for a four-point loading system utilizing two force application points which are equally spaced.



Specifications

- Made per ASTM C1341 - Semi Articulating
- Max force capacity 5kN
- 3 point and 4 point loading configuration
- 10.16mm Roller diameter by 40mm wide
- Bracketing for a 19mm diameter LVDT (LVDT not included)
- Lower span adjustable to a ~260mm max. span
- Upper span adjustable to a ~180mm max. span
- 15.9mm (5/8") female cup adapters with a hole for a 8mm dia. cross pin

The GC1341-238 can be matched with a TestResources Universal Test Machine or with your existing test machine. By means of our ceramic testing expertise and modular product design, we will help find the testing solution that is right for you. Give one of our application engineers a call today for help with creating the best budget and testing plan according to ASTM C1341.

Model CG1341-238	
Max Force	5 kN (1124 lb)
Roller diameter	10.16mm x 40 mm wide
Lower span max	260 mm
Upper span max	180 mm
Female cup adapters	15.9 mm (5/8”) with opening for an 8 mm diameter cross pin

ASTM C1341

The CG1341-238 will help determine the following required measurements:

- Flexural strength and strain
- Fracture strength and strain
- Modulus of elasticity
- Stress-strain curves

To bend test in accordance with ASTM C1341, take a bar of rectangular cross section and test in flexure as a beam using the GC1341-238. Continue this procedure until your test specimen ruptures in the outer fibers or until there is a 20 percent decrease from the peak force.

TestResources Inc – 701 Canterbury Road – Shakopee MN USA 55379
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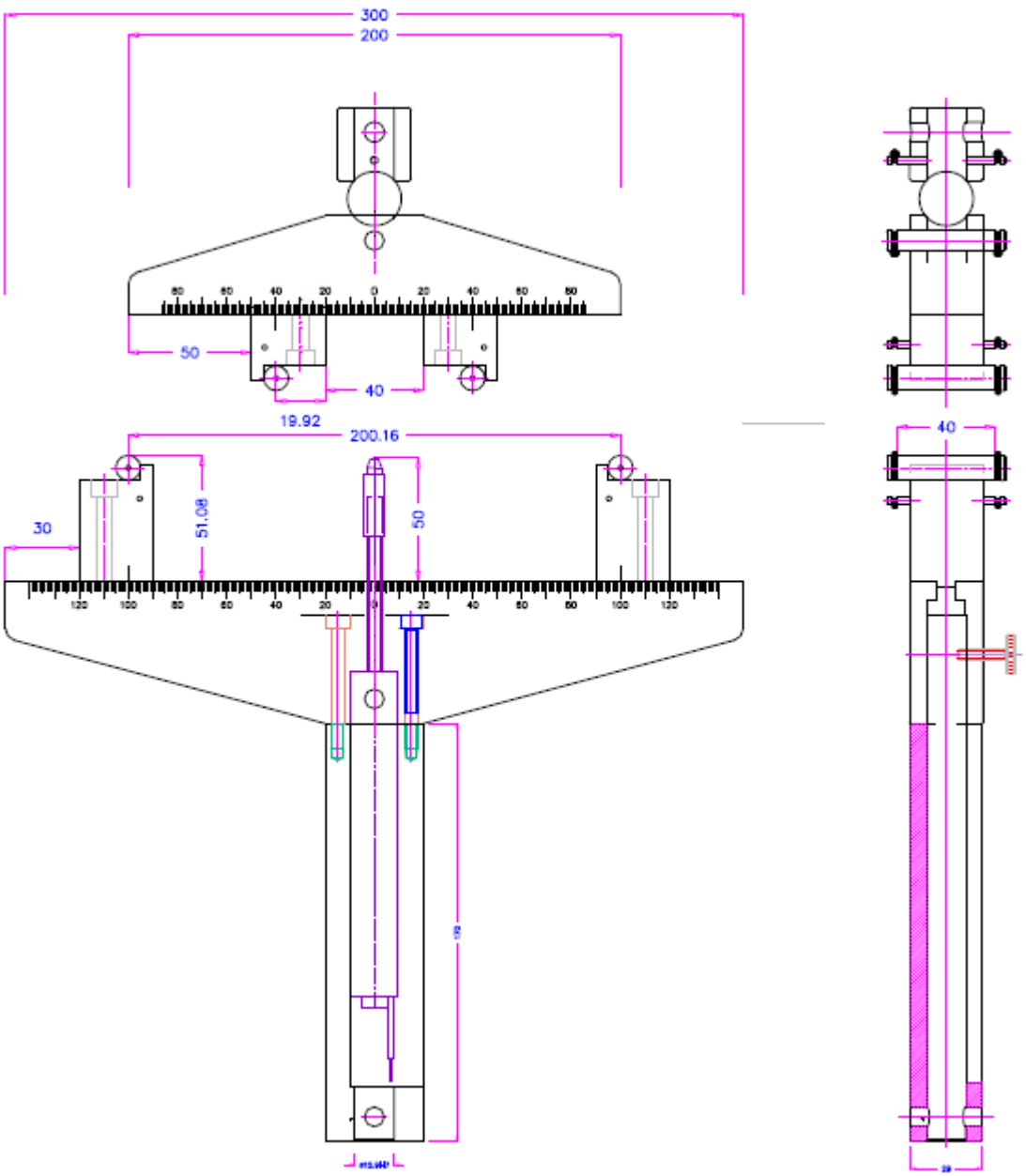

GC1431

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