

2810 SERIES MICRO 3-POINT BEND FIXTURE

Catalog Numbers 2810-410, 411

Bend or flexure testing provides a convenient method for characterizing the strength of the miniature components and specimens typical of those found in microelectronics applications. Fixtures are available for both three and four-point loading.

PRINCIPLE OF OPERATION

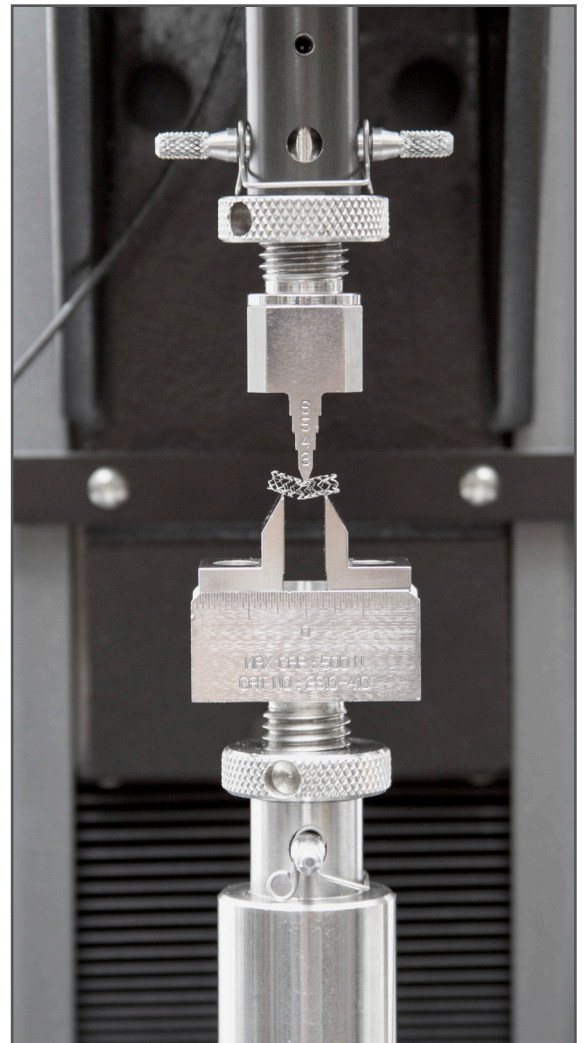
The specimen is supported on two lower anvils at a defined distance. The support span can be adjusted according to specimen size. Force is applied to the specimen by an upper anvil located at the mid-span of the lower anvils. Some fixtures include an option for four-point loading.

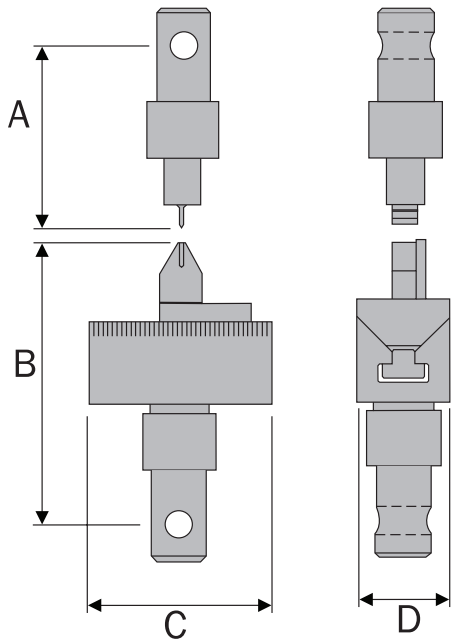
APPLICATION RANGE

The micro-bend fixture is designed for three-point bend or flexure testing of miniature components and specimens, where the specimen is supported on two lower anvils and the load is applied by a single or optional dual upper anvil.

FEATURES AND BENEFITS

- Span: 3 mm to 10 mm (0.12 in to 0.4 in)
- Max specimen width: 20 mm (0.8 in)
- Capacity: 1 kN (200 lbf, 100 kgf)
- Upper and lower fittings: Type Om (12 mm connection with 6 mm clevis pin)
- Temperature range: -75 °C to +300 °C (-103 °F to +572 °F)





Micro 3-Point Bend Fixture Front and Side View



Micro 3-Point Bend fixture

SPECIFICATIONS

Catalog Number		2810 - 410	2810 - 411
Capacity	kN	0.1kN	1kN
	kgf	10	100
	lbf	20	225
Span	mm	1 (fixed)	3 - 10
	in	0.04	0.12 - 0.4
Maximum Specimen Width	mm	5	20
	in	0.2	0.8
Mechanical Connection (Lower)		6 mm clevis pin (Type Om)	6 mm clevis pin (Type Om)
Mechanical Connection (Upper)		6 mm clevis pin (Type Om)	6 mm clevis pin (Type Om)
Anvil Radius (Upper)	mm	0.25	--
	in	0.01	--
Anvil Radius (Lower)	mm	0.25	0.5
	in	0.01	0.02
Upper Effective Height (A)	mm	39	--
	in	1.5	--
Lower Effective Height (B)	mm	58	--
	in	2.3	--
Lower Width (C)	mm	40	39.9
	in	1.6	1.57
Lower Depth (D)	mm	20	20
	in	0.8	0.8
Upper Anvil Assembly	kg	0.25	< 0.13
	lb	0.5	0.28

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