

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

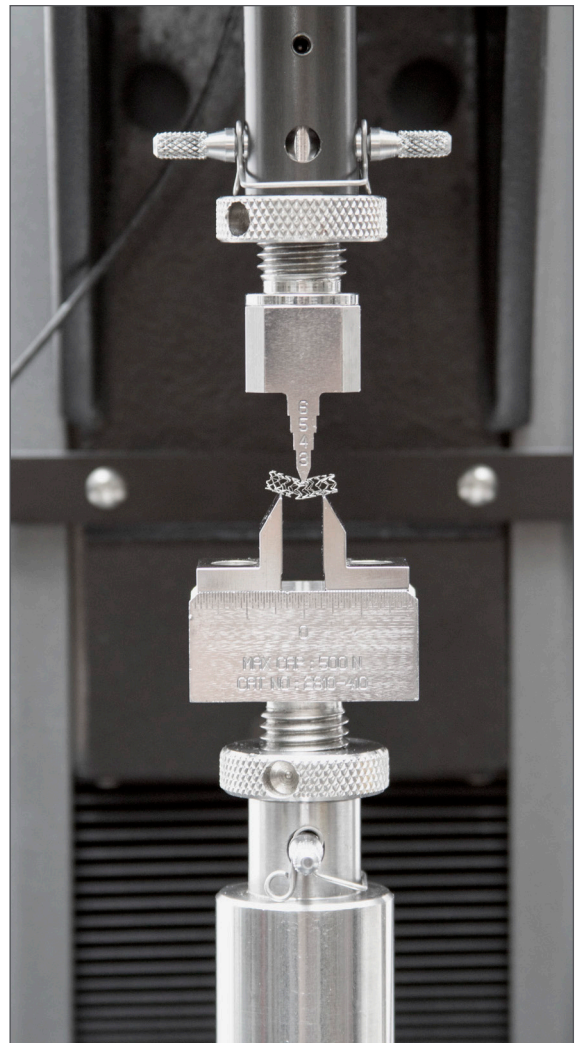
The specimen is supported on two lower anvils at a defined distance. The support span can be adjusted according to specimen size. Force is applied to the specimen by an upper anvil located at the mid-span of the lower anvils. Some fixtures include an option for four-point loading.

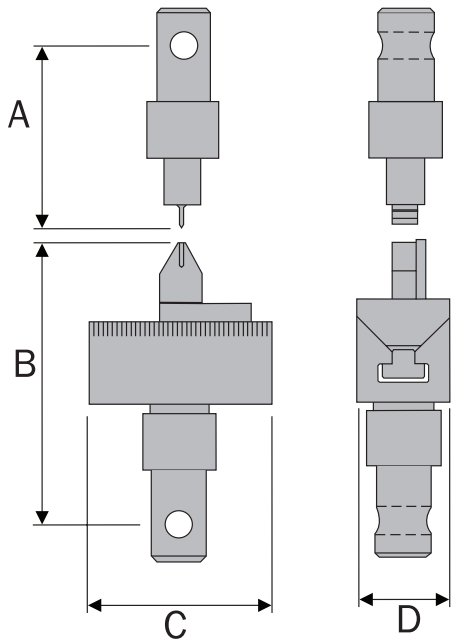
APPLICATION RANGE

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: 1 to 10 mm (0.12 to 0.4 in)
- Max specimen width: 20 mm (0.8 in)
- Capacity: 100 N (20 lbf, 10 kgf) or 1 kN (200 lbf, 100 kgf)
- Upper and lower fittings: Type Om (12 mm connection with 6 mm clevis pin)
- Temperature range: -75 to +300 °C (-103 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	0.1	1
	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	0.25
	in	0.01	0.01
Anvil Radius (Lower)	mm	0.25	0.25
	in	0.01	0.01
Upper Effective Height (A)	mm	39	59
	in	1.5	2.32
Lower Effective Height (B)	mm	58	62
	in	2.3	2.44
Lower Width (C)	mm	40	40
	in	1.57	1.57
Lower Depth (D)	mm	20	20
	in	0.8	0.8
Upper Anvil Assembly	kg	0.11	0.11
	lb	0.25	0.25

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