



FLEXURAL FIXTURES

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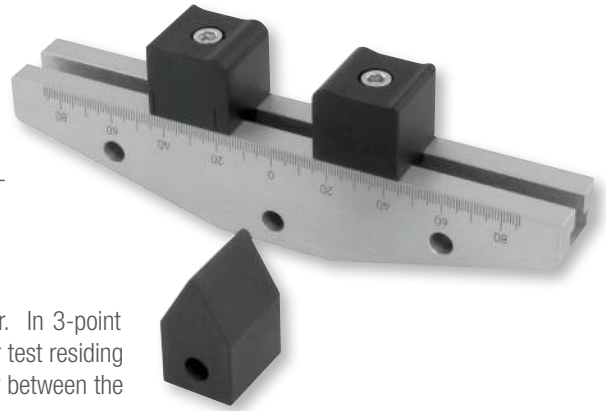
Flexural test fixtures are a relatively simple solution for determining the strength and deformation properties of materials such as wood and timber products.

Starrett can offer a variety of test fixtures and accessories for performing 3- and 4-point bend testing.

OPERATION

A beam attaches to the force testing frame, typically using a clevis adapter. In 3-point bending tests, two anvils are arranged along the beam with the sample under test residing on top of the two anvils. Force is applied in a compression direction mid-way between the two anvils for a 3-point test.

Instead of a single anvil pressing the mid-section of the sample, two anvils may be used to press down on the sample for a 4-point test.



TESTING STANDARDS

The following testing standards can be met using standard Starrett flexural testing fixtures:

- ASTM D143
- ASTM D1037
- ASTM D3037
- ISO 3133

Additional testing standards are supported. Contact your Starrett representative for more information.

BEND 3

ALUMINUM

- For general-purpose 3-point bend testing applications
- Active Span Length is 4-150mm
- Replaceable Top and Bottom Radii for 4- and 5-point applications
- Aluminum bar with anodized finish, Hardened Steel radii
- Operating Temperatures 32° to 158°F (0° to 70°C)

Bending Fixtures

Model No.	Load Capacity			Upper Radius		Lower Radius		Weight (each)		Clevis Type mm	Supply
	N	KGF	LBF	in	mm	in	mm	lbs	kgs		
BEND-3-UR1-LR1	2,500	250	550	0.04	1.0	0.06 / 0.1	1.5 / 2.5	4.5	2.0	15.9	1
BEND-3-UR1-LR2	2,500	250	550	0.04	1.0	0.08 / 0.2	2.0 / 5.0	4.5	2.0	15.9	1
BEND-3-UR1-LR3	2,500	250	550	0.04	1.0	0.13 / 0.2	3.2 / 5.0	4.5	2.0	15.9	1
BEND-3-UR15-LR1	2,500	250	550	0.06	1.5	0.06 / 0.1	1.5 / 2.5	4.5	2.0	15.9	1
BEND-3-UR15-LR2	2,500	250	550	0.06	1.5	0.08 / 0.2	2.0 / 5.0	4.5	2.0	15.9	1
BEND-3-UR15-LR3	2,500	250	550	0.06	1.5	0.13 / 0.2	3.2 / 5.0	4.5	2.0	15.9	1
BEND-3-UR2-LR1	2,500	250	550	0.08	2.0	0.06 / 0.1	1.5 / 2.5	4.5	2.0	15.9	1
BEND-3-UR2-LR2	2,500	250	550	0.08	2.0	0.08 / 0.2	2.0 / 5.0	4.5	2.0	15.9	1
BEND-3-UR2-LR3	2,500	250	550	0.08	2.0	0.13 / 0.2	3.2 / 5.0	4.5	2.0	15.9	1
BEND-3-UR3-LR1	2,500	250	550	0.12	3.0	0.06 / 0.1	1.5 / 2.5	4.5	2.0	15.9	1
BEND-3-UR3-LR2	2,500	250	550	0.12	3.0	0.08 / 0.2	2.0 / 5.0	4.5	2.0	15.9	1
BEND-3-UR3-LR3	2,500	250	550	0.12	3.0	0.13 / 0.2	3.2 / 5.0	4.5	2.0	15.9	1
BEND-3-UR5-LR1	2,500	250	550	0.2	5.0	0.06 / 0.1	1.5 / 2.5	4.5	2.0	15.9	1
BEND-3-UR5-LR2	2,500	250	550	0.2	5.0	0.08 / 0.2	2.0 / 5.0	4.5	2.0	15.9	1
BEND-3-UR5-LR3	2,500	250	550	0.2	5.0	0.13 / 0.2	3.2 / 5.0	4.5	2.0	15.9	1

FLEXURAL FIXTURES

TOP ANVILS FOR BEND 3

HARDENED STEEL RADII

- For general-purpose 3-point bend testing applications
- Operating Temperatures 32° to 158°F (0° to 70°C)



BOTTOM SUPPORTS FOR BEND 3

HARDENED STEEL RADII

- For general-purpose 3-point bend testing applications
- Operating Temperatures 32° to 158°F (0° to 70°C)



Anvils for Bend - 3						
Model No.	Upper Radius		Weight (each)		Clevis Type mm	Supply
	in	mm	lbs	kgs		
ANVIL-10	0.04	1.0	0.5	0.2	15.9	1
ANVIL-15	0.06	1.5	0.5	0.2	15.9	1
ANVIL-20	0.08	2.0	0.5	0.2	15.9	1
ANVIL-32	0.1	3.2	0.5	0.2	15.9	1
ANVIL-50	0.2	5.0	0.5	0.2	15.9	1

Bottom Supports for Bend - 3							
Model No.	Lower Radius		Weight (each)		Clevis Type mm	Supply	
	in	mm	lbs	kgs			
BASE-LR1	0.06 / 0.1	1.5 / 2.5	0.5	0.2	15.9	1	
BASE-LR2	0.08 / 0.2	2.0 / 5.0	0.5	0.2	15.9	1	
BASE-LR3	0.13 / 0.2	3.2 / 5.0	0.5	0.2	15.9	1	

DIMENSIONS

