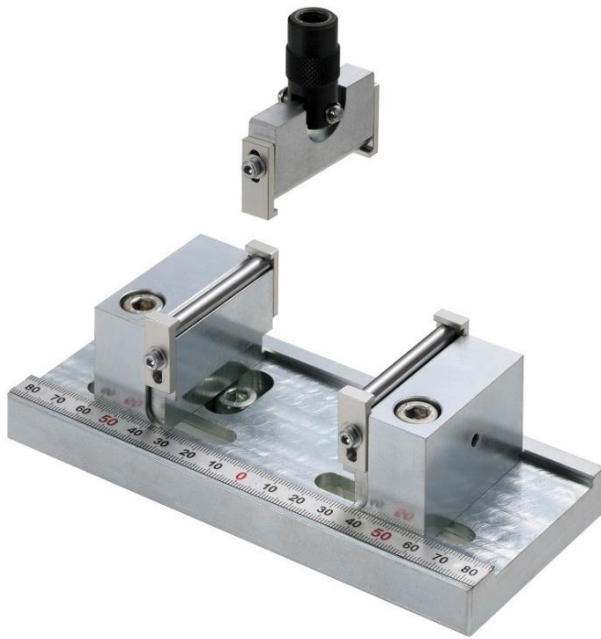


3-Point Bending Test Fixture

BT-500N / 5000N / 5000N-CB

- 3-Point Bend attachment for flexural, rigid, semi-rigid, snapping properties: for ceramics, glasses, composites, plastics, metals, or any sheet and round bar form materials.
- Interchangeable Loading Pins and adjustable bending span caters for wider range of measurement requirements.
- Partially compliant with ISO and JIS standard testing.









BT-5000N



Test Image with BT-5000N

Fixtures	Related Standard References
BT-5000N/ BT-5000N-CB	<p>-ISO 17138: 2014 Fine ceramics (advanced ceramics, advanced technical ceramics) - Mechanical properties of ceramic composites at room temperature - Determination of flexural strength. (Corresponding part only)</p> <p>(Japanese Standards: JIS R 1663: 2017) (Corresponding part only)</p> <p>-IEC 60672-2 (1999) Ceramic and glass insulating materials - Part 2: Methods of test. (Corresponding part only) (Japanese Standards: JIS C 2141: 1992) (Corresponding part only)</p>
BT-5000N	<p>-ISO 14704: 2000 Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for flexural strength of monolithic ceramics at room temperature. (Corresponding part only) (Japanese Standards: JIS R 1601: 2008) (Corresponding part only)</p> <p>-JIS R 1602: 1995 [Testing methods for elastic modulus of fine ceramics] (Corresponding part only)</p>
BT-5000N-CB	<p>-ISO/FDIS 14215: 1998 Fiber-reinforced plastic composites - Determination of flexural properties (Corresponding part only)</p> <p>(Japanese Standards: JIS K 7017: 1999) (Corresponding part only)</p> <p>-JIS K 7074: 1988 Testing methods for flexural properties of carbon fiber reinforced plastics (Corresponding part only)</p> <p>-JIS H 7406: 1993 Test method for flexural properties of fiber reinforced metals (Corresponding part only)</p>

How used Example		
Adjust bending span of the Supporting Anvils	Place the sample	Apply force from above
		

Specifications			
Model	BT-500N	BT-5000N	BT-5000N-CB
Image			
Description	Basic Milled Edge Anvil Limited Function	Standard types: Interchangeable Loading Pin options ※1	
Capacity	500N	5000N	5000N
Upper Anvil Radius	R2.5	R3	R5
Supporting Anvil Radius	R2.5	R3	R2
Max. Sample Widths	60mm	52mm	52mm
Fulcrum distance	25~120mm		
Dimensions	Refer to the details on Pages 5/6-6/6		
Weight ※2	Upper-loading Anvil: 100g Supporting Anvils: 2100g	Upper-loading Anvil: 130g Supporting Anvils: 2300g	Upper-loading Anvil: 150g Supporting Anvils: 2300g
Upper Anvil mounting screws	M6	M10	M10


* The Loading Pin is a rod shaft that fixed with attachment on the force gauge side.

* For round bars, the rod-shaped samples, additional Attachment BT-CG is recommended, for stabilizing the sample during the operation, for safety and the accuracy. (Page 4/6 for more information)

※1) Interchangeable Loading Pin options, and Attachments: refer to page 4 for details.







※2) Force Gauge Load is inclusive of attachments: capacity of the force gauge unit means total load added.




*Example: Product configuration BT-500N	
Code: 1B2001A For basic measurements up to 500N Digital force gauge: DST-500N Motorized test stand: MX-500N Optional attachment: BT-500N	
*Example: Product configuration BT-5000N	
Code: 1B2002A Complies with the corresponding part of ISO 14704: 2000 and JIS R 1601: 2008 Digital force gauge: ZTS-5000N Motorized test stand: MX2-5000N Optional attachment: BT-5000N Optional cable: CB-518	
*Example: Product configuration BT-5000N-CB	
Code: 1B2003A Complies with the corresponding part of JIS K 7074: 1988 Load-displacement measurement unit: FSA-5K2-5000N Optional attachment: BT-5000N-CB	



BT-5000N Example1 Image

- * For more information, the individual product specifications, refer to each product page on our website.
- * The maximum load value of the force gauge varies depending on the measuring sample requirements.
- * Depending on the sample characteristics, product configuration, and measurement requirements vary, contact our authorized distributor or us for more information.
- * Avoid risks when measure samples that may scatter.

Related Products		
Compression Pin PG-2/3/4/5	Compression Plate Jig A-40/60, S-40/60	Urethane Hemispherical Compression Jig UR-8S/8M
Ideal for compression and penetration testing for small samples up to 200N.	For top-load and crush resistance testing up to 500N, available in Aluminum (A) / Steel (S).	To simulates the finger-like pressure for tests up to 50N
		
High Capacity Compression Jigs PC-5040/5060/5100	Compression Test Jig PR-500N/2500N	Thread Conversion Adapter CA-F6T10 (CA-Series)
Ideal for the Compression and break resistance tests for Capacity up to 5000N.	Durability testing: up to 2500N, for heat-sealed packages, retort pouches, and cubical samples.	M6⇒M10 For use between Force-gauge and the Attachment (Upper Anvil)
		

Optional Accessories					
R4 Interchangeable Loading/Supporting Pins(3ps set) BT-SH-R4		R5 Interchangeable Loading/Supporting Pins(3ps) BT-SH-R5		The groove guide (2pcs set) BT-CG	
R=4 for BT-5000N		R=5 for BT-5000N		Stablize round bar form samples: avoid rolling off the supporting anvils.	
 R=4		 R=5			
Applicable Standards	• ASTM D 790 • JIS C 2141 (1992)	Applicable Standards	• ISO/FDIS 14125 • JIS K 7017 (1988) • JIS C 2141 (1992)	2pcs set	

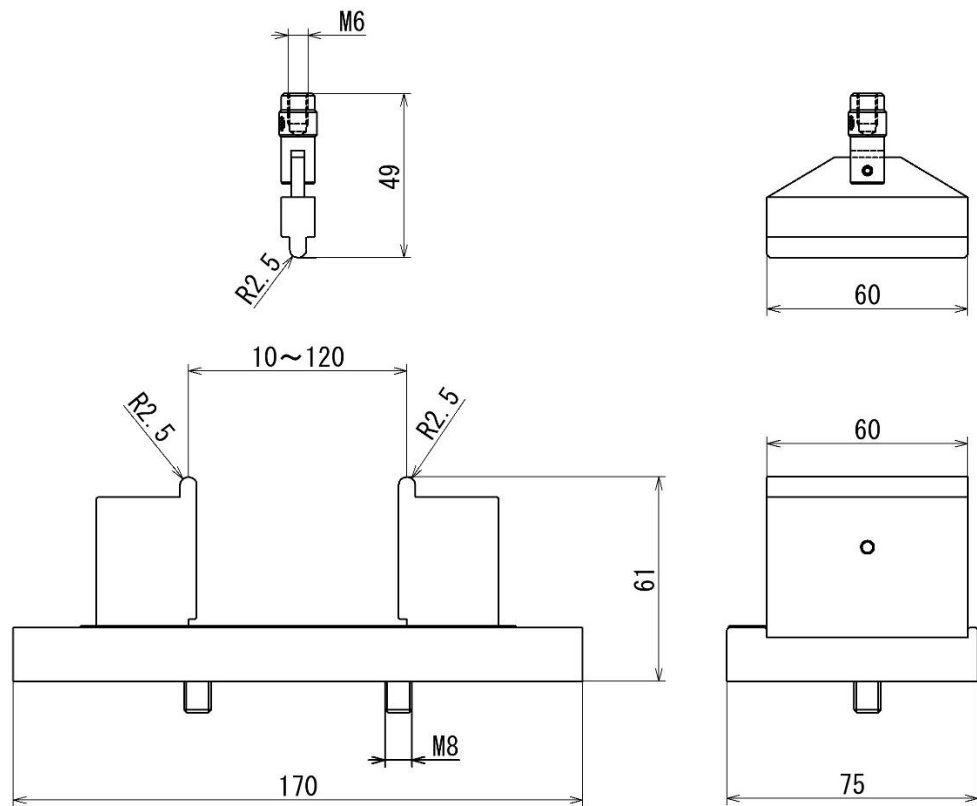
*R4 and R5: Not applicable as BT-5000N-CB Supporting Anvil.

Possible range of custom made			
Model	BT-500N	BT-5000N	BT-5000N-CB
R of Interchangeable Pin ※1		Loading Pin: R3.0~5.0 Supporting Pins: R3.0~5.0	Loading Pin: R3.0~5.0 Supporting Pins: R1.5~3.0
Material of interchangeable Pin		Stainless, Ceramic	
Max. width of Upper Anvil	100mm		
Max. width of Supporting Anvil	100mm		

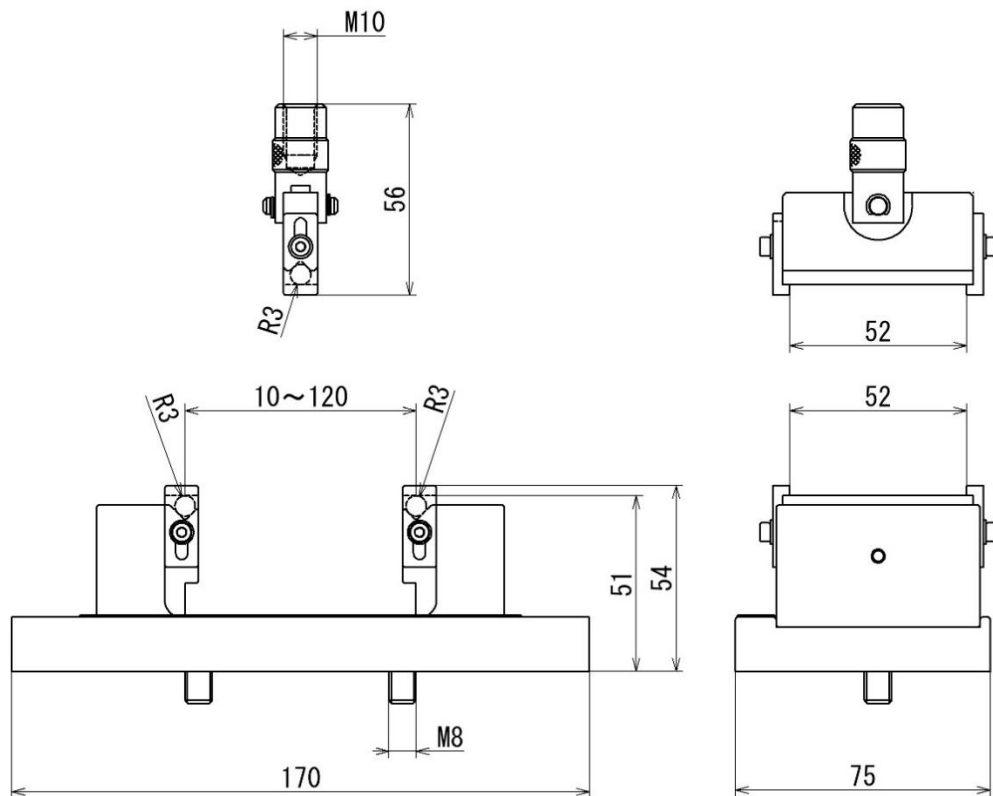
※1 Available fulcrum radius, caters each with R0.5 units.

[Dimensions]

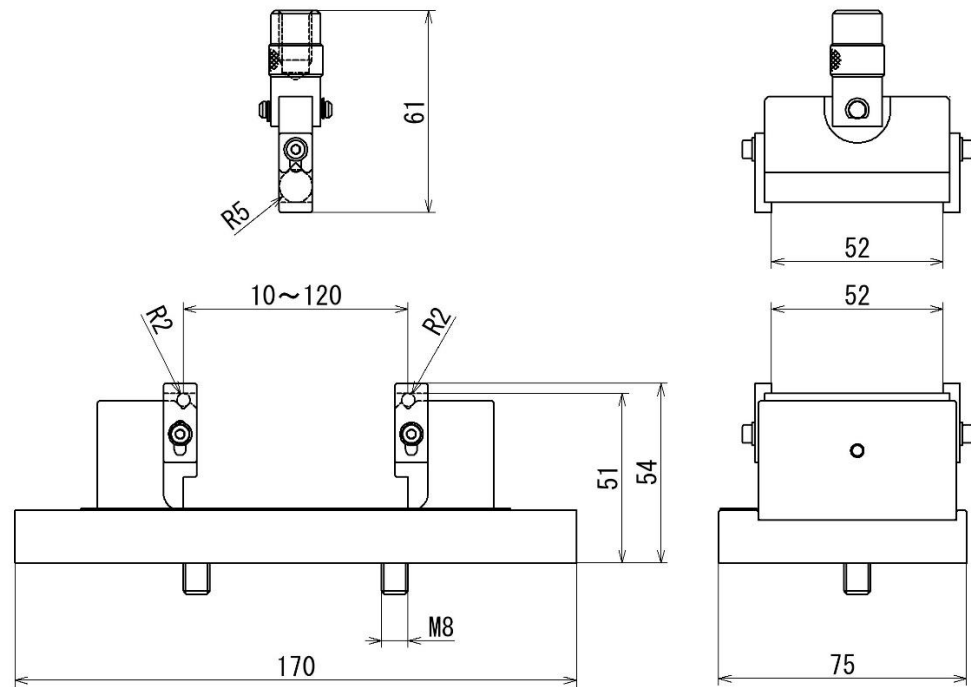
BT-500N



BT-5000N



BT-5000N-CB



Unit: mm

[Cautions]

- Information in this document is subject to change without prior notice.
- This document is product descriptions and handling precautions, and do not guarantee various characteristics or safety.
- This product is designed for force measurement purpose only.
- Do not copy and use this content without authorization.
- A force gauge and the Test-stand (both sold separately) are required to use this product.
- Some samples may not be suitable to measure with this product.