

Bore Gages

Bore Gages SERIES 526 — for Extra Small Holes

- This bore gage is designed to measure small holes of $\varnothing 1$ to 7 mm diameter.
- The dial indicator is optional. Refer to page 08-50 for recommended indicators.
- Optional stand (215-120-10) is available for efficient measurement of multiple small holes.



526-170-11

Note: The dial indicator and the dial protection cover are optional.
Refer to page 08-50 for details.

SPECIFICATIONS

Metric							
Code No.	Range (mm)	Accuracy* (µm)	Repeatability* (µm)	Bore gage	Dial indicator	Dial protection cover	Setting ring
526-170-10	0.95 - 1.55	4	1	526-170-10	Not supplied	Not supplied	Not supplied
526-160-10	1.50 - 3.95	4		526-160-10			
526-150-10	3.70 - 7.30	6		526-150-10			
526-172-20	0.95 - 1.55	4		526-170-10			
526-162-20	1.50 - 3.95	4		526-160-10	2109AB-10 (Graduation: 0.001 mm)	21DZA000	
526-152-20	3.70 - 7.30	6		526-150-10			
526-173-20	0.95 - 1.55	4		526-170-10	2046AB (Graduation: 0.01 mm)	21DZA000	
526-163-20	1.50 - 3.95	4		526-160-10			
526-153-20	3.70 - 7.30	6		526-150-10	Not supplied	Not supplied	
526-170-11	0.95 - 1.55	4		526-170-10			
526-160-11	1.50 - 3.95	4		526-160-10			
526-150-11	3.70 - 7.30	6		526-150-10			
526-172-21	0.95 - 1.55	4		526-170-10	2109AB-10 (Graduation: 0.001 mm)	21DZA000	Supplied
526-162-21	1.50 - 3.95	4		526-160-10			
526-152-21	3.70 - 7.30	6		526-150-10	2046AB (Graduation: 0.01 mm)	21DZA000	
526-173-21	0.95 - 1.55	4		526-170-10			
526-163-21	1.50 - 3.95	4		526-160-10			
526-153-21	3.70 - 7.30	6		526-150-10			

Inch								
Code No.	Range (in)	Accuracy* (in)	Repeatability* (in)	Bore gage	Dial indicator	Dial protection cover	Setting ring	
526-175-10	0.037 - 0.061	0.00016	0.00004	526-175-10	Not supplied	Not supplied	Not supplied	
526-165-10	0.059 - 0.156	0.00016		526-165-10				
526-155-10	0.146 - 0.287	0.00024		526-155-10				
526-176-20	0.037 - 0.061	0.00016		526-175-10	2923AB-10 (Graduation: 0.0001 in)	21DZA000		
526-166-20	0.059 - 0.156	0.00016		526-165-10				
526-156-20	0.146 - 0.287	0.00024		526-155-10	Not supplied	Not supplied	Supplied	
526-175-11	0.037 - 0.061	0.00016		526-175-10				
526-165-11	0.059 - 0.156	0.00016		526-165-10				
526-155-11	0.146 - 0.287	0.00024		526-155-10	2923AB-10 (Graduation: 0.0001 in)	21DZA000		
526-176-21	0.037 - 0.061	0.00016		526-175-10				
526-166-21	0.059 - 0.156	0.00016		526-165-10				
526-156-21	0.146 - 0.287	0.00024		526-155-10				

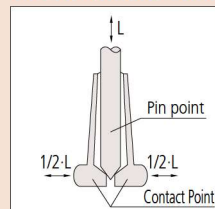
* Accuracy of the bore gage alone.

Note: Setting rings are not supplied with some models. Please purchase them separately if necessary. For details of setting rings, refer to page 08-52.

Measurement example



Measurement Principle



Setting Rings (Metric)

Nominal size

- Code No. 526-170-11 etc.

177-220: 1.0 mm

177-222: 1.1 mm

177-225: 1.2 mm

177-227: 1.3 mm

177-230: 1.4 mm

- Code No. 526-160-11 etc.

177-236: 1.75 mm

177-239: 2.00 mm

177-242: 2.25 mm

177-208: 2.50 mm

177-246: 2.75 mm

177-248: 3.00 mm

177-250: 3.25 mm

177-252: 3.50 mm

177-255: 3.75 mm

- Code No. 526-150-11 etc.

177-204: 4.0 mm

177-257: 4.5 mm

177-205: 5.0 mm

177-263: 5.5 mm

177-267: 6.0 mm

177-271: 6.5 mm

177-275: 7.0 mm

Setting Rings (Inch)

Nominal size

- Code No. 526-175-11 etc.

177-350: 0.040 in

177-351: 0.045 in

177-352: 0.050 in

177-353: 0.055 in

177-354: 0.060 in

- Code No. 526-165-11 etc.

177-355: 0.07 in

177-356: 0.08 in

177-357: 0.09 in

177-358: 0.10 in

177-359: 0.11 in

177-360: 0.12 in

177-361: 0.13 in

177-362: 0.14 in

177-363: 0.15 in

- Code No. 526-155-11 etc.

177-364: 0.16 in

177-365: 0.18 in

177-366: 0.20 in

177-367: 0.22 in

177-368: 0.24 in

177-369: 0.26 in

177-370: 0.28 in

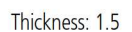
08 Inside Measuring Instruments



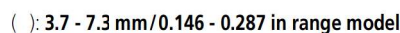
Bore Gages

Note: Pin point and contact point are consumable parts. Please replace them with new one when degrading of accuracy, operation, or measuring range. After replacement, calibrate using a reference instrument.

Unit: mm



213634



Note: This is not a component for extending the probing depth. (Standard Accessory)

Bore Gages

Bore Gages
SERIES 526 — for Extra Small Holes

- This bore gage is designed to measure small holes of $\varnothing 7$ to 18 mm diameter. It enables accurate and smooth comparative measurement using optional setting rings.
- The dial indicator is optional. Refer to page 08-50 for recommended indicators.
- Optional stand (215-120-10) is available for efficient measurement of multiple small holes.



526-101

Note: The dial indicator and the dial protection cover are optional.
Refer to page 08-50 for details.

SPECIFICATIONS

Metric							
Code No.	Range (mm)	Accuracy* (μm)	Repeatability* (μm)	Bore gage	Dial indicator	Dial protection cover	Setting ring
526-101	7 - 10	4	2	526-101	Not supplied	Not supplied	Not supplied
526-102	10 - 18	6		526-102			
526-124-20	7 - 10	4		526-101	2109AB-10 (Graduation: 0.001 mm)	21DZA000	
526-125-20	10 - 18	6		526-102			
526-126-20	7 - 10	4		526-101	2046AB (Graduation: 0.01 mm)		
526-127-20	10 - 18	6		526-102			
Inch							
Code No.	Range (in)	Accuracy* (in)	Repeatability* (in)	Bore gage	Dial indicator	Dial protection cover	Setting ring
526-103	0.3 - 0.4	0.00016	0.00008	526-103	Not supplied	Not supplied	Not supplied
526-104	0.4 - 0.7	0.00024		526-104			
526-122-20	0.3 - 0.4	0.00016		526-103	2923AB-10 (Graduation: 0.0001 in)	21DZA000	
526-123-20	0.4 - 0.7	0.00024		526-104			
526-119-20	0.3 - 0.4	0.00016		526-103	2922AB (Graduation: 0.0005 in)		
526-120-20	0.4 - 0.7	0.00024		526-104			

* Accuracy of the bore gage alone.
Note: Setting rings are not supplied.
Please purchase them separately if necessary. For details of the setting rings, refer to page 08-52.

DIMENSIONS

Unit: mm

STANDARD ACCESSORIES

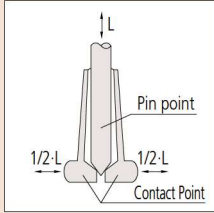
Bore gage (Main body)	Marked No.	Code No.	Range	L10	L11	L12	Spanner Code No.
526-101 526-103	1	102469	7.0 - 7.5 mm/0.28 - 0.30 in	1.8	40	29.2	102148
	2	102470	7.5 - 8.0 mm/0.30 - 0.32 in				
	3	102471	8.0 - 8.5 mm/0.32 - 0.34 in				
	4	102472	8.5 - 9.0 mm/0.34 - 0.36 in				
	5	102473	9.0 - 9.5 mm/0.36 - 0.38 in				
	6	102474	9.5 - 10.0 mm/0.38 - 0.40 in				
526-102 526-104	1	102454	10 - 11 mm/0.40 - 0.44 in	2.7	46	38	102148
	2	102455	11 - 12 mm/0.44 - 0.48 in				
	3	102456	12 - 13 mm/0.48 - 0.52 in				
	4	102457	13 - 14 mm/0.52 - 0.56 in				
	5	102458	14 - 15 mm/0.56 - 0.60 in				
	6	102459	15 - 16 mm/0.60 - 0.64 in				
	7	102460	16 - 17 mm/0.64 - 0.68 in				
	8	102461	17 - 18 mm/0.68 - 0.72 in				

Note: Contact point is consumable part. Please replace it with new one when degrading of accuracy, operation, or measuring range.

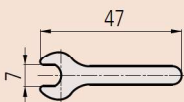
Measurement example



Measurement Principle



Spanner
102148



Thickness: 1.5