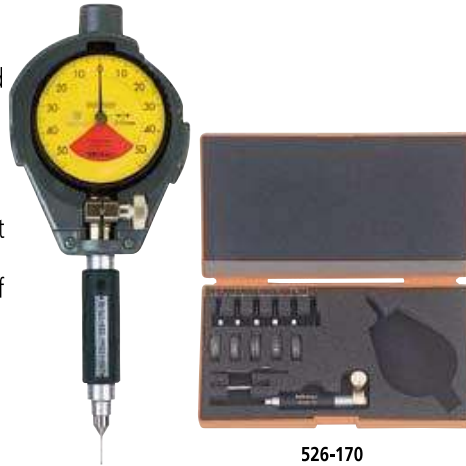


Bore Gages

For easy and accurate measurement of inside diameters

Bore Gages SERIES 526 — for Extra Small Holes

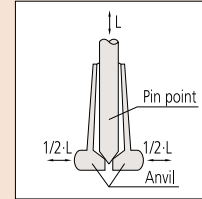
- These gages are designed to measure the diameters of very small holes. The radial displacement of the split-ball anvil is converted to axial displacement of the measuring rod, which is shown on the dial indicator.
- Dial indicators and protection covers are optionally available.
Some indicators and protection covers cannot be used with these bore gages. Contact a Mitutoyo sales office if considering the use of dial indicators or Digimatic indicators other than recommended models.
- An optional stand (**215-120-10**) is available for efficient measurement of multiple small holes. Refer to page C-30 for details.



526-170

* The dial indicator and the protection cover are optional.

Measurement principle



Technical Data

Accuracy
Metric models: 4μm
Inch models: .00016"
Repeatability
Metric models: 2μm
Inch models: .00008"

Optional Accessories

- : Dial indicator (See Chapter F)
21DZA000: Dial protection cover
215-120-10: Stand for small holes

Recommended dial indicators

Metric models: **2046SB** (0.01mm)
2972TB (0.01mm - One-revolution type)
2109SB-10 (0.001mm)
2900SB-10 (0.001mm - One-revolution type)
Inch models: **2922SB** (.0005")
2977TB (.0005" - One-revolution type)
2923SB-10 (.0001")
2910SB-10 (.0001" - One-revolution type)

Recommended digimatic indicators

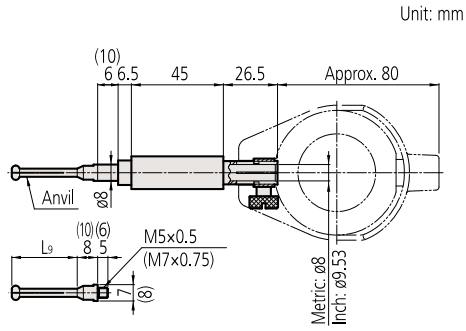
Metric models: **543-264B** (ID-C112GB: 0.001mm)
Inch models: **543-266B** (ID-C112GEB: 0.001mm/.00005")
* Indicators equipped with rubber bellows, such as water-proof types, cannot be used.

SPECIFICATIONS

Metric		Content of set							Probing depth
Order No.	Range	Bore gage	Dial indicator	Dial protection cover	Anvil	Pin point	Setting ring		
526-170	0.95-1.55mm	526-170	Not supplied	Not supplied	5 pcs.	1 pc.	5 pcs.	11.5mm	
526-160	1.50-4.00mm	526-160			9 pcs.	2 pcs.	9 pcs.	17.5, 22.5mm	
526-150	3.70-7.30mm	526-150	2109SB-10 (Graduation 0.001mm)	21DZA000	7 pcs.	1 pc.	7 pcs.	32.0mm	
526-172	0.95-1.55mm	526-170			5 pcs.	1 pc.	5 pcs.	11.5mm	
526-162	1.50-4.00mm	526-160	2046SB (Graduation: 0.01mm)	21DZA000	9 pcs.	2 pcs.	9 pcs.	17.5, 22.5mm	
526-152	3.70-7.30mm	526-150			7 pcs.	1 pc.	7 pcs.	32.0mm	
526-173	0.95-1.55mm	526-170	2046SB (Graduation: 0.01mm)	21DZA000	5 pcs.	1 pc.	5 pcs.	11.5mm	
526-163	1.50-4.00mm	526-160			9 pcs.	2 pcs.	9 pcs.	17.5, 22.5mm	
526-153	3.70-7.30mm	526-150			7 pcs.	1 pc.	7 pcs.	32.0mm	

Inch		Content of set							Probing depth
Order No.	Range	Bore gage	Dial indicator	Dial protection cover	Anvil	Pin point	Setting ring		
526-175	.037-.061"	526-175	Not supplied	Not supplied	5 pcs.	1 pc.	5 pcs.	.45"	
526-165	.06-.157"	526-165			9 pcs.	2 pcs.	9 pcs.	.68, .88"	
526-155	.145-.29"	526-155	2923SB-10 (Graduation: .0001")	21DZA000	7 pcs.	1 pc.	7 pcs.	1.25"	
526-176	.037-.061"	526-175			5 pcs.	1 pc.	5 pcs.	.45"	
526-166	.06-.157"	526-165	2923SB-10 (Graduation: .0001")	21DZA000	9 pcs.	2 pcs.	9 pcs.	.68, .88"	
526-156	.145-.29"	526-155			7 pcs.	1 pc.	7 pcs.	1.25"	

DIMENSIONS



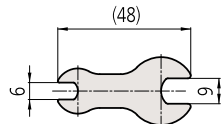
(): 3.7 - 7.3mm / .145 - .29 range model

Unit: mm

STANDARD ACCESSORIES

Bore gage (Main body)	Anvil				Pin point	Setting ring mm/inch	Wrench Parts No.
	Marked No.	Parts No.	Measuring range	L ₉			
526-170 526-175	1.0	201414	0.95-1.15mm	.037-.045"	11.5mm/.45"	201435	1.0mm/.04"
	1.1	201415	1.07-1.25mm	.042-.049"			1.1mm/.045"
	1.2	201416	1.17-1.35mm	.046-.053"			1.2mm/.05"
	1.3	201417	1.27-1.45mm	.050-.057"			1.3mm/.055"
526-160 526-165	1.4	201418	1.37-1.55mm	.054-.061"	17.5mm/.68"	201436	1.4mm/.06"
	1.75	201419	1.50-1.90mm	.060-.075"			1.75mm/.07"
	2.00	201420	1.80-2.20mm	.070-.085"			2.00mm/.08"
	2.25	201421	2.05-2.45mm	.080-.095"			2.25mm/.09"
	2.50	201422	2.25-2.75mm	.090-.105"			2.50mm/.10"
	2.75	201423	2.50-3.00mm	.100-.115"			2.75mm/.11"
	3.00	201424	2.75-3.25mm	.110-.125"			3.00mm/.12"
	3.25	201425	3.00-3.50mm	.120-.135"			3.25mm/.13"
3.50	201426	3.25-3.75mm	.130-.145"	3.50mm/.14"			
526-150 526-155	3.75	201427	3.50-4.00mm	.140-.157"	22.5mm/.88"	201437	3.75mm/.15"
	4.0	201428	3.70-4.30mm	.145-.170"			4.0mm/.16"
	4.5	201429	4.20-4.80mm	.165-.190"			4.5mm/.18"
	5.0	201430	4.70-5.30mm	.185-.210"			5.0mm/.20"
	5.5	201431	5.20-5.80mm	.205-.230"			5.5mm/.22"
	6.0	201432	5.70-6.30mm	.225-.250"			6.0mm/.24"
526-150 526-155	6.5	201433	6.20-6.80mm	.245-.270"	32.0mm/1.25"	201438	6.5mm/.26"
	7.0	201434	6.70-7.30mm	.265-.290"			7.0mm/.28"

Wrench
No.210188



Thickness: 1.5

C

Bore Gages

For easy and accurate measurement of inside diameters

Bore Gages SERIES 526 — for Extra Small Holes



526-101

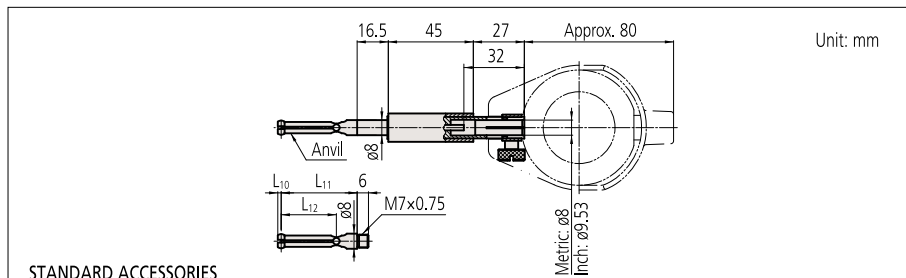
* The dial indicator and the protection cover are optional.

SPECIFICATIONS

Metric						
Order No.	Range	Content of set				Probing depth
		Bore gage	Dial indicator	Dial protection cover	Anvil	
526-101	7-10mm	526-101	Not supplied	Not supplied	6 pcs.	32mm
526-102	10-18mm	526-102			8 pcs.	62mm
526-124	7-10mm	526-101	2109SB-10 (Graduation: 0.001mm)	21DZA000	6 pcs.	32mm
526-125	10-18mm	526-102			8 pcs.	62mm
526-126	7-10mm	526-101	2046SB (Graduation: 0.01mm)	21DZA000	6 pcs.	32mm
526-127	10-18mm	526-102			8 pcs.	62mm

Inch						
Order No.	Range	Content of set				Probing depth
		Bore gage	Dial indicator	Dial protection cover	Anvil	
526-103	.3-.4"	526-103	Not supplied	Not supplied	6 pcs.	1.25"
526-104	.4-.7"	526-104			8 pcs.	2.42"
526-122	.3-.4"	526-103	2923SB-10 (Graduation: .0001")	21DZA000	6 pcs.	1.25"
526-123	.4-.7"	526-104			8 pcs.	2.42"
526-119	.3-.4"	526-103	2922SB (Graduation: .0005")	21DZA000	6 pcs.	1.25"
526-120	.4-.7"	526-104			8 pcs.	2.42"

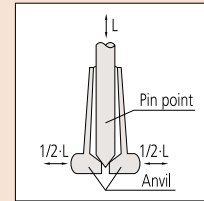
DIMENSIONS



STANDARD ACCESSORIES

Bore gage (Main body)	Marked No.	Parts No.	Anvil			Wrench Parts No.	
			Measuring range	L10	L11		L12
526-101 526-103	1	102469	7.0 - 7.5mm .28 - .30"	1.8mm/.07"	40mm/1.57"	29.2mm/1.15"	102148
	2	102470	7.5 - 8.0mm .30 - .32"				
	3	102471	8.0 - 8.5mm .32 - .34"				
	4	102472	8.5 - 9.0mm .34 - .36"				
	5	102473	9.0 - 9.5mm .36 - .38"				
	6	102474	9.5 - 10.0mm .38 - .40"				
526-102 526-104	1	102454	10 - 11mm .40 - .44"	2.7mm/.11"	46mm/1.81"	38mm/1.50"	102148
	2	102455	11 - 12mm .44 - .48"				
	3	102456	12 - 13mm .48 - .52"				
	4	102457	13 - 14mm .52 - .56"				
	5	102458	14 - 15mm .56 - .60"				
	6	102459	15 - 16mm .60 - .64"				
	7	102460	16 - 17mm .64 - .68"				
	8	102461	17 - 18mm .68 - .72"				

Measurement principle



Technical Data

Accuracy
Metric models: 7-10mm, 4µm / 10-18mm, 6µm
Inch models: .3-.4", .00016" / .4-.7", .00024"
Repeatability
Metric models: 2µm
Inch models: .00008"

Optional accessories

-: Dial indicator (See Chapter F)
21DZA000: Dial protection cover
 -: Setting ring (See page C-47)
215-120-10: Stand for small holes

Recommended dial indicators

Metric models: 2046SB (0.01mm)
2972TB (0.01mm - One-revolution type)
2109SB-10 (0.001mm)
2900SB-10 (0.001mm - One-revolution type)
Inch models: 2922SB (.0005")
2977TB (.0005" - One-revolution type)
2923SB-10 (.0001")
2910SB-10 (.0001" - One-revolution type)

Recommended digimatic indicators

Metric models: 543-264B (ID-C112GB, 0.001mm)
Inch models: 543-266B (ID-C112GEB, 0.001mm/.00005")
* Indicators equipped with rubber bellows, such as water-proof types, cannot be used.

Wrench
No.102148

