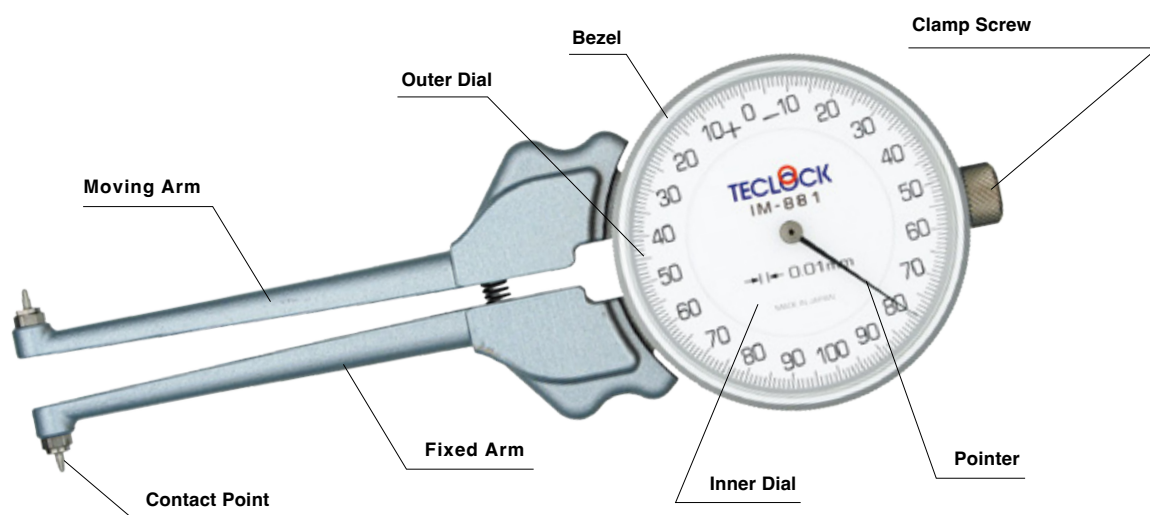


7 Caliper Gauge

Measuring internal diameter, external diameter and thickness of deep position, groove, long distance position, etc. where measurement is difficult.



As to internal caliper gauge IM-880 series, the distance between contact points facing outside is firstly set at standard dimension with ring gauge or micrometer. Then, it is measured by inserting contact point into internal dimension part to be measured after its outer dial of which moves together with rotated bezel is set at "0". The displacement of indicator from "0" point of outer dial is to be measured at that time. The value adding to the read displacement to standard dimension or deducting it from standard dimension is the dimension of internal diameter. This series attaches spare contact point which can set accurate dimension corresponding to size of internal dimension. External caliper gauge is opposite, namely reading the value by holding work piece with 2 contact points facing outside.



Measuring example of inner diameter of a small metal work piece.

Internal Dial Caliper Gauge

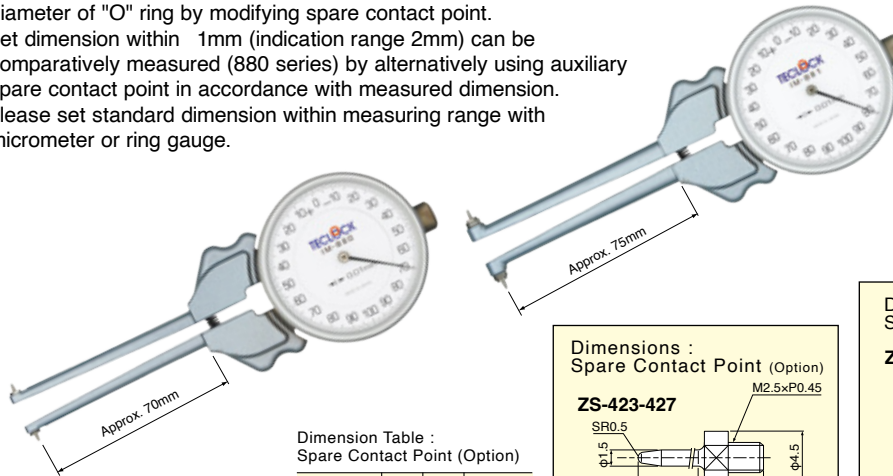
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Bluetooth Digital Internal Caliper Gauge ----- 104

External Dial Caliper Gauge	105,106
External Digital Caliper Gauge	107
Bluetooth Digital External Caliper Gauge	108
Arm Slide Type Caliper Gauge	109

Internal Dial Caliper Gauge (Modifying spare contact point)

- Internal caliper gauge to measure internal diameter of cylindrical workpiece and recessed groove diameter. It can measure groove diameter of "O" ring by modifying spare contact point.
- Set dimension within 1mm (indication range 2mm) can be comparatively measured (880 series) by alternatively using auxiliary spare contact point in accordance with measured dimension.
- Please set standard dimension within measuring range with micrometer or ring gauge.



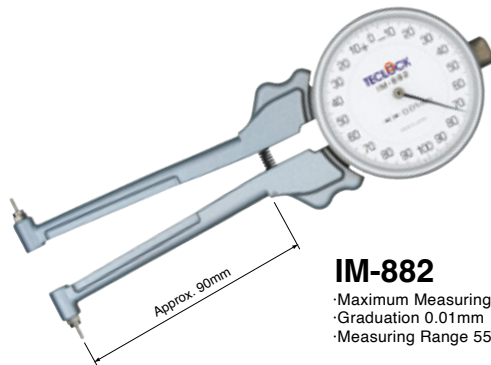
IM-880

- Maximum Measuring Depth 70mm
- Graduation 0.01mm
- Measuring Range 20-35mm

Dimension Table :
Spare Contact Point (Option)

Code No.	L1	L2	Measuring Range
ZS-423	2.5	4	20-23
ZS-424	3.5	5	22-25
ZS-425	4.5	6	24-27
ZS-426	5.5	7	26-29
ZS-427	5.5	8	28-31
ZS-428	5.5	9	30-33
ZS-429	5.5	10	32-35

unit : mm



IM-882

- Maximum Measuring Depth 90mm
- Graduation 0.01mm
- Measuring Range 55-153mm

IM-881

- Maximum Measuring Depth 75mm
- Graduation 0.01mm
- Measuring Range 30-62mm

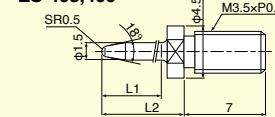
Dimension Table :
Spare Contact Point (Option)

Code No.	L1	L2	Measuring Range
ZS-408	3	4.5	30-38
ZS-409	5.5	7.5	36-44
ZS-410	6	10.5	42-50
ZS-411	6	13.5	48-56
ZS-412	6	16.5	54-62

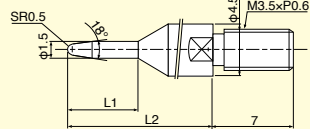
unit : mm

Dimensions :
Spare Contact Point (Option)

ZS-408,409



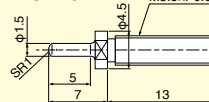
ZS-410-412



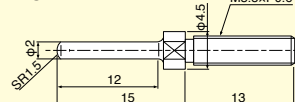
unit : mm

Dimensions :Spare Contact Point (Option)

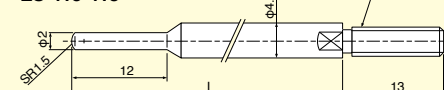
ZS-413



ZS-414

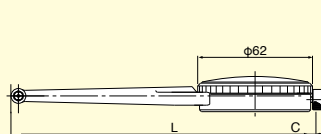


ZS-415-418



unit : mm

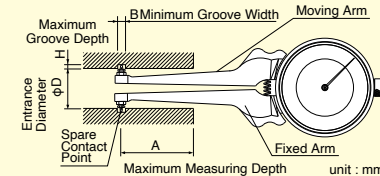
External Dimensions



Model	L	C
IM-880	165	2.7
IM-881	170	3.5
IM-882	183	4

unit : mm

Dimensions



*φD=Measuring Rang - 2H

Dimension table
Spare Contact Point (option)

Code No.	L	Measuring Range
ZS-413	7	55-73
ZS-414	15	71-89
ZS-415	23	87-105
ZS-416	31	103-121
ZS-417	39	119-137
ZS-418	47	135-153

unit : mm

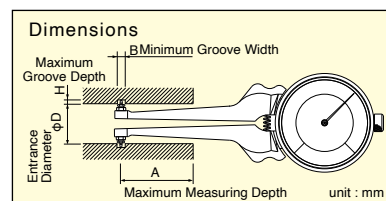
Specifications

Model	Graduation (mm)	Measuring Range (mm)	Indicating Range (mm)	Indication Error (μm)	Measuring Force (N)	Weight (g)	Spare Contact Point		Maximum Measuring Depth A (mm)	Groove Depth H (mm)	Minimum Groove Width B (mm)
							Code No.	Measuring Range(mm)			
IM-880	0.01	20-35	2	±20	3 or less	196	ZS-423	20-23	70	2.5	2.5
							ZS-424	22-25		3.5	
							ZS-425	24-27		4	
							ZS-426	26-29		4	
							ZS-427	28-31		4	
							ZS-428	30-33		4	
							ZS-429	32-35		4	
IM-881	0.01	30-62	2	±20	3 or less	218	ZS-408	30-38	75	3	2.5
							ZS-409	36-44		4.3	
							ZS-410	42-50		4.3	
							ZS-411	48-56		4.3	
							ZS-412	54-62		4.3	
							ZS-413	55-73		5	
							ZS-414	71-89		8.5	
IM-882	0.01	55-153	2	±20	3 or less	240	ZS-415	87-105	90	8.5	3.5
							ZS-416	103-121		8.5	
							ZS-417	119-137		8.5	
							ZS-418	135-153		8.5	

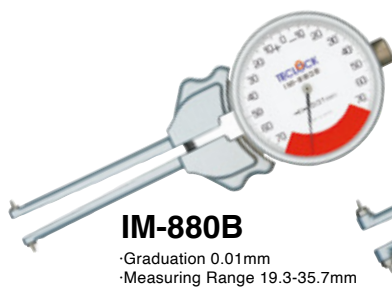
One Revolution Internal Dial Caliper Gauge (Modifying spare contact point)



- Modifying One Revolution type IM-880 series, long seller internal gauge.
- Three types for measuring range.
- After setting standard dimension with master gauge, indication within $\pm 0.7\text{mm}$ comparatively.

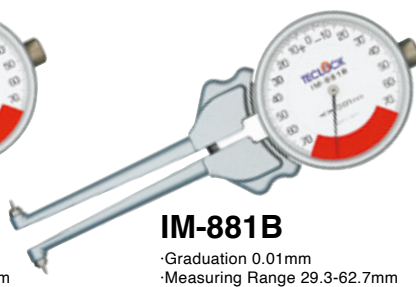


$\phi D = \text{Measuring Range} - 2H$



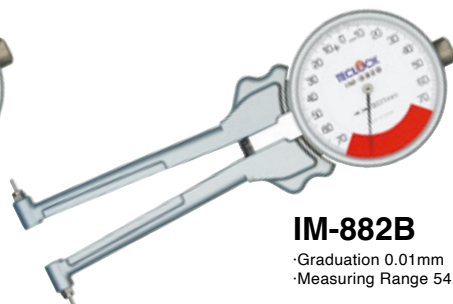
IM-880B

• Graduation 0.01mm
• Measuring Range 19.3-35.7mm



IM-881B

• Graduation 0.01mm
• Measuring Range 29.3-62.7mm



IM-882B

• Graduation 0.01mm
• Measuring Range 54.3-153.7mm

Specifications

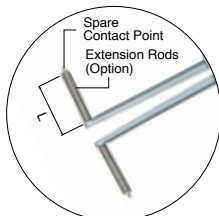
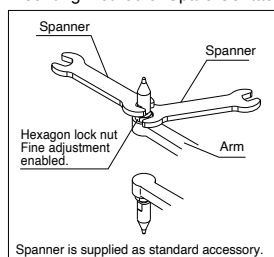
Model	Graduation (mm)	Measuring Range (mm)	Indicating range (mm)	Indication Error (μm)	Measuring Force (N)	Spare Contact Point			Maximum Measuring Depth A (mm)	Entrance Diameter ϕD (mm)*	Groove Depth H (mm)	Groove Width B (mm)	Weight (g)
						Code No.	Extension Rods	Measuring Range (mm)					
IM-880B	0.01	19.3-35.7	1.4	± 20	3 or less	ZS-423	ZS-423	19.3-20.7	70	14.3	2.5	2.5	196
						ZS-423	ZS-424	20.3-21.7		15.3	2.5		
						ZS-424	ZS-424	21.3-22.7		14.3	3.5		
						ZS-424	ZS-425	22.3-23.7		15.3	3.5		
						ZS-425	ZS-425	23.3-24.7		15.3	4		
						ZS-425	ZS-426	24.3-25.7		16.3	4		
						ZS-426	ZS-426	25.3-26.7		17.3	4		
						ZS-426	ZS-427	26.3-27.7		18.3	4		
						ZS-427	ZS-427	27.3-28.7		19.3	4		
						ZS-427	ZS-428	28.3-29.7		20.3	4		
						ZS-428	ZS-428	29.3-30.7		21.3	4		
						ZS-428	ZS-429	30.3-31.7		22.3	4		
						ZS-429	ZS-429	31.3-32.7		23.3	4		
						ZS-426	ZS-426 ZS-646	32.3-33.7		24.3	4		
						ZS-426	ZS-427 ZS-646	33.3-34.7		25.3	4		
						ZS-427	ZS-427 ZS-646	34.3-35.7		26.3	4		
IM-881B	0.01	29.3-62.7	1.4	± 20	3 or less	ZS-408	ZS-408	29.3-38.7	75	24	3	2.5	218
						ZS-409	ZS-409	35.3-44.7		27.4	4.3		
						ZS-410	ZS-410	41.3-50.7		33.4	4.3		
						ZS-411	ZS-411	47.3-56.7		39.4	4.3		
						ZS-412	ZS-412	53.3-62.7		45.4	4.3		
						ZS-413	ZS-413	54.3-73.7		45	5		
IM-882B	0.01	54.3-153.7	1.4	± 20	3 or less	ZS-414	ZS-414	70.3-89.7	90	54	8.5	3.5	240
						ZS-415	ZS-415	86.3-105.7		70	8.5		
						ZS-416	ZS-416	102.3-121.7		86	8.5		
						ZS-417	ZS-417	118.3-137.7		102	8.5		
						ZS-418	ZS-418	134.3-153.7		118	8.5		

*Please combine with ZS-646 extension rod when measuring $\phi 33$ to $\phi 35$ by IM-880B.

Optional Extension Rods

- IM-880 series dialcaliper gauges can measure internal dimension up to measuring range in the right list by installing extension rods. Standard products of spare extension rods can be used as it is.

Mounting Method of Spare Contact Point



IM-880:

Measuring range with extension rods (mm)

Spare Contact Point	Extension Rods	Measuring Range
ZS-423	ZS-646 L=7	34-37
		36-39
		38-41
		40-43
		42-45
		44-47
ZS-423	ZS-647 L=14	46-49
		48-51
		50-53
		52-55
		54-57
		56-59
ZS-423	ZS-648 L=21	58-61
		60-63
		62-65
		64-67
		66-69
		68-71
ZS-423	ZS-649 L=28	70-73
		72-75
		74-77
		76-79
		78-81
		80-83
ZS-423		82-85
		84-87
		86-89
		88-91

IM-881:

Measuring range with extension rods (mm)

Spare Contact Point	Extension Rods	Measuring Range
ZS-408	ZS-693 L=15	60-68
		66-74
		72-80
		78-86
		84-92
		90-98
ZS-408	ZS-694 L=30	96-104
		102-110
		108-116
		114-122
		120-128
		126-134
ZS-408	ZS-695 L=45	132-140
		138-146
		144-152

IM-882:

Measuring range with extension rods (mm)

Spare Contact Point	Extension Rods	Measuring Range
ZS-413	ZS-696 L=48	151-169
		167-185
		183-201
		199-217
		215-233
		231-249
ZS-413	ZS-697 L=96	247-265
		263-281
		279-297
		295-313
		311-329
		327-345

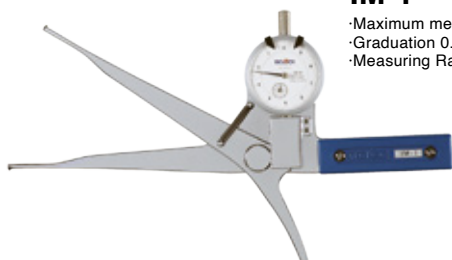
Internal Dial Caliper Gauge (Fixed Contact point)

- These gauges are designed for use in measuring deep internal diameter of bores of castings etc, and for internal reading in fabrications. Clearance has been provided for use in recessed

bores. The convenient retraction lever allows one-hand operation.

IM-1

- Maximum measuring depth 125mm
- Graduation 0.1mm
- Measuring Range 10-90mm



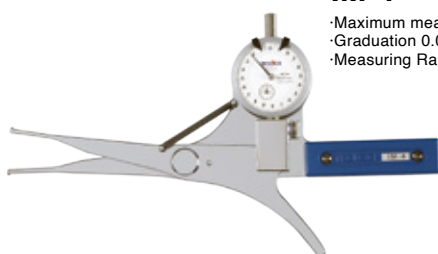
IM-2

- Maximum measuring depth 180mm
- Graduation 0.1mm
- Measuring Range 10-90mm



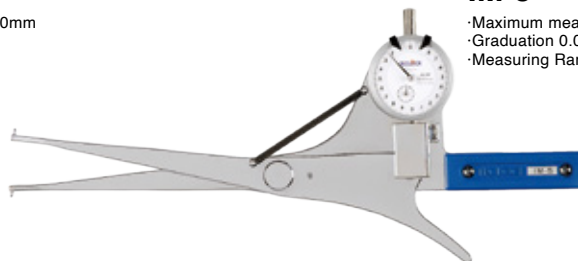
IM-4

- Maximum measuring depth 100mm
- Graduation 0.01mm
- Measuring Range 10-30mm

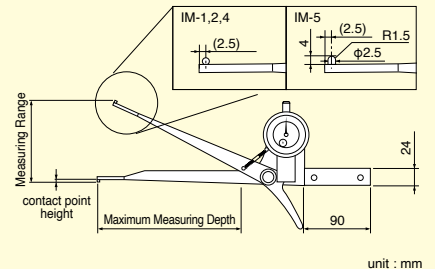


IM-5

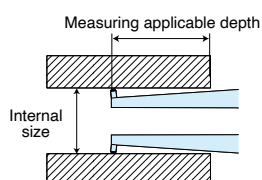
- Maximum measuring depth 150mm
- Graduation 0.01mm
- Measuring Range 20-40mm



Dimensions



Internal size of workpiece is 10mm, 15mm, 20mm and 30mm or over against measuring applicable depth.



Model	Internal Size			
	10	15	20	30-
IM-1	35	50	80	130
IM-2	35	50	80	180
IM-4	35	50	80	100
IM-5	-	-	140	150

unit : mm

Inside of workpiece should be straight or round shape without step etc.

Specifications

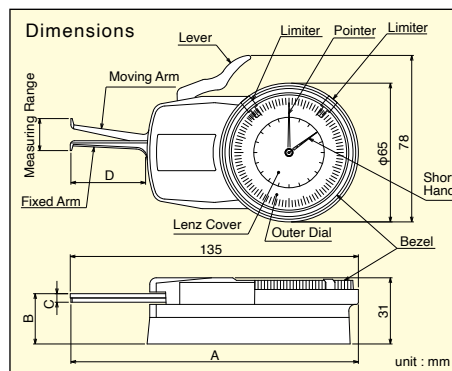
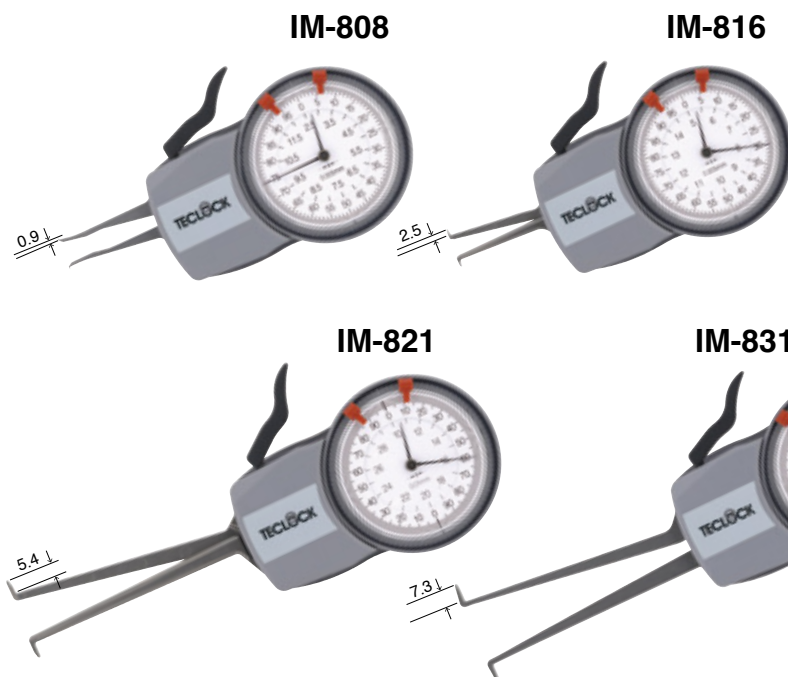
Model	Graduation (mm)	Measuring Range(mm)	Indication Error(μm)	Maximum Measuring Depth(mm)	Contact Point Height(mm)	Contact Point Shape(mm)	Measuring Force(N)	Weight (g)
IM-1	0.1	10-90	±0.2	125	2	φ2.0	5 or less	500
IM-2	0.1	10-90	±0.2	180	2	φ2.0	5 or less	620
IM-4	0.01	10-30	±0.03	100	2	φ2.0	5 or less	500
IM-5	0.01	20-40	±0.03	150	4	R1.5/φ2.5	5 or less	600

Internal Dial Caliper Gauge (Arms with Lever type)



- Closing Measuring Arms by Arm Switch Lever, then measuring internal diameter after inserting one a work piece grooves.
- Handy type for measuring a position of narrow groove, and the Contact point is hard metal.

- Coaxial revolution pointers type.
- After the gauge should be adjusted to minimum measuring range of each model (In case IM-880, 2.5mm) by using a setting ring gauge, it is dial reading directly.



Dimensions

Model	Contact Point	A	B	C	D
IM-808	R0.1	135	22.2	1.8	35
IM-816	Sφ0.6	135	23.6	4	35
IM-821	Sφ1.0	186	25.6	7	85
IM-831	Sφ1.0	186	23.9	4	85

unit : mm

Specifications

Model	Graduation (mm)	Measuring Range (mm)	Indication Range (mm)	Indication Error (μm)	Repeatability (μm)	Measuring Force (N)	IP Rating	Weight (g)
IM-808	0.005	2.5-12.5	2.3-12.8	±15	5	0.8-1.2	IP65 Equivalent	160
IM-816	0.005	5-15	4.7-15.3	±15	5	0.8-1.2		160
IM-821	0.01	10-30	9.5-30.5	±30	10	1.1-1.6		180
IM-831	0.01	20-40	19.5-40.5	±30	10	1.1-1.6		180

Measuring Capacity

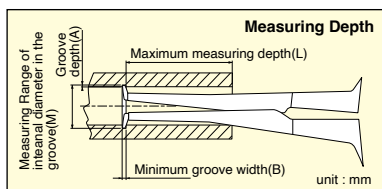
Measuring Range of internal diameter in the groove : M (mm)

IM-808		2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5
Groove depth : A (mm)	0	0/9.8	0/10.3	0/10.3	0/10.4	0/10.7	0/10.7	0/10.9	0/11.1	0/11.4	0/11.7	0/12.1	0/12.4	0/12.8	0/13.3	0/13.8	0/14.3	0/14.8	0/15.4	0/16.1	0/16.9	0/17.7
	0.2		0.4/9.1	0.4/9.1	0.4/9.1	0.4/9.3	0.4/9.4	0.4/9.6	0.4/9.8	0.4/10.1	0.4/10.3	0.4/10.6	0.5/10.9	0.5/11.3	0.5/11.7	0.5/12.1	0.5/12.6	0.5/13.0	0.5/13.6	0.5/14.2	0.5/14.9	0.5/15.6
	0.4			0.5/7.9	0.5/7.9	0.5/8.0	0.5/8.1	0.5/8.3	0.5/8.5	0.5/8.7	0.5/8.9	0.5/9.2	0.5/9.4	0.5/9.8	0.5/10.1	0.5/10.4	0.5/10.8	0.5/11.3	0.5/11.7	0.5/12.3	0.5/12.8	0.5/13.5
	0.6				0.6/6.3	0.5/6.4	0.5/6.6	0.5/6.8	0.5/7.0	0.5/7.2	0.5/7.5	0.5/7.7	0.6/8.0	0.6/8.3	0.6/8.5	0.6/8.8	0.6/9.1	0.6/9.5	0.6/9.9	0.6/10.3	0.6/10.8	0.6/11.4
	0.7				0.7/5.0	0.6/5.2	0.6/5.5	0.6/5.7	0.5/5.9	0.5/2	0.5/6.5	0.5/6.8	0.6/7.1	0.6/7.4	0.6/7.7	0.6/8.0	0.6/8.3	0.6/8.6	0.6/9.0	0.6/9.4	0.6/9.8	0.6/10.3
		B/L																				

IM-816	5	6	7	8	9	10	11	12	13	14	15
Groove depth : A (mm)	0	0/33.4	0/33.2	0/33.4	0/33.7	0/34.0	0/34.4	0/34.7	0/35.0	0/35.3	0/35.6
	0.2		0.8/32.6	0.8/32.8	0.8/33.3	0.8/33.7	0.8/34.1	0.8/34.5	0.8/34.8	0.8/35.1	0.8/35.6
	0.4		0.9/30.5	0.8/30.5	0.8/33.7	0.8/33.7	0.8/34.1	0.8/34.5	0.8/34.9	0.8/35.2	0.8/35.5
	0.6			0.9/28.0	0.9/30.1	0.9/32.4	0.9/33.2	0.9/33.8	0.9/34.2	0.9/34.6	0.9/35.3
	0.8			1.1/23.9	1.0/26.5	1.0/29.4	1.0/32.5	1.0/33.6	0.9/33.9	0.9/34.4	0.9/35.1
	1.0			1.3/21.3	1.2/22.8	1.1/25.3	1.0/29.1	1.0/33.4	1.0/33.5	1.0/34.0	1.0/34.9
	1.2				1.3/19.2	1.2/21.3	1.1/24.5	1.1/29.4	1.1/32.8	1.1/33.6	1.0/34.2
	1.4				1.4/15.6	1.3/17.3	1.2/19.8	1.2/23.8	1.1/30.2	1.1/33.1	1.1/33.8
	1.6					1.4/13.2	1.3/15.2	1.2/18.2	1.2/23.2	1.2/32.0	1.1/33.3
	1.8						1.7/9.2	1.4/10.5	1.3/12.6	1.3/16.1	1.2/22.5
	2.0							2.0/5.1	1.8/5.9	1.6/7.1	1.4/9.0
	2.2								2.2/1.3	2.0/1.5	1.7/1.9
	B/L										

IM-821	10	12	14	16	18	20	22	25	30
Groove depth : A (mm)	0	0/82.7	0/83.5	0/83.5	0/83.7	0/83.9	0/84.2	0/84.5	0/85.0
	1		1.7/82.0	1.5/83.1	1.5/83.2	1.5/83.4	1.5/83.7	1.5/84.0	1.5/84.5
	2			1.9/81.7	1.8/81.8	1.7/82.1	1.7/82.3	1.6/82.6	1.6/84.0
	3				2.0/76.4	1.9/82.1	1.8/82.7	1.7/83.4	1.7/84.3
	4					2.3/52.1	2.0/70.8	1.9/82.0	1.8/83.8
	4.5						2.6/42.6	2.2/71.0	2.0/82.7
	5							4.0/14.3	3.3/23.9
	B/L								

IM-831	20	22	24	26	28	30	32	35	40
Groove depth : A (mm)	0	0/78.0	0/83.7	0/84.7	0/85.1	0/86.6	0/86.8	0/87.0	0/87.3
	1		1.5/82.4	1.5/84.2	1.5/84.9	1.5/86.2	1.5/86.7	1.5/87.1	1.5/87.7
	2			1.6/83.4	1.6/84.6	1.6/85.6	1.6/86.4	1.6/86.7	1.6/87.5
	3				1.7/83.7	1.7/84.9	1.7/85.9	1.7/86.5	1.7/87.3
	4					1.9/84.2	1.9/85.1	1.9/86.1	1.9/87.0
	5						2.0/84.4	2.0/85.3	2.0/86.4
	6							2.1/84.6	2.1/85.9
	6.5								2.2/85.5
	B/L								



B = Minimum groove width (mm)
L = Maximum measuring depth (mm)

ex.) In case of M=26 and A=2,
then B=1.6 and L=84.6. (mm)

Bluetooth Digital Internal Caliper Gauge (Fixed Contact point)

NEW

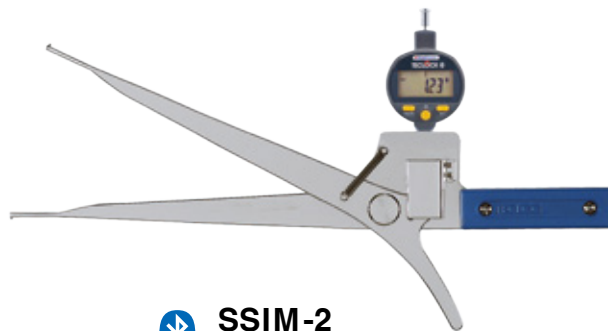
Features

- Measuring internal diameter for deep positions.
- Fixed Contact point type.
- Easy Searching Minimum value of internal diameter by Peak hold mode(MIN mode).
- One-touch data sending to PC by built-in Bluetooth.
- Data management by SmartMeasure Lite (free).



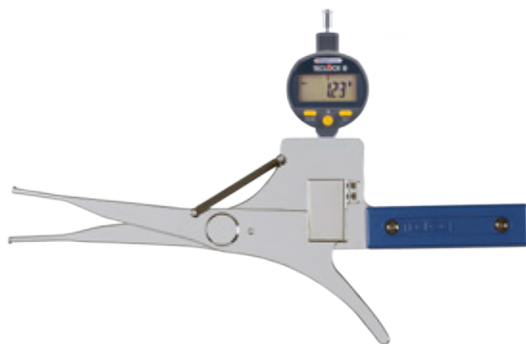
SSIM-1

- Maximum Measuring Depth 130mm
- Measuring Range 10-90mm



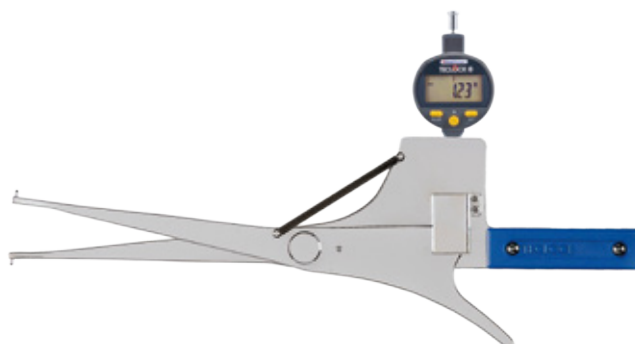
SSIM-2

- Maximum Measuring Depth 180mm
- Measuring Range 10-90mm



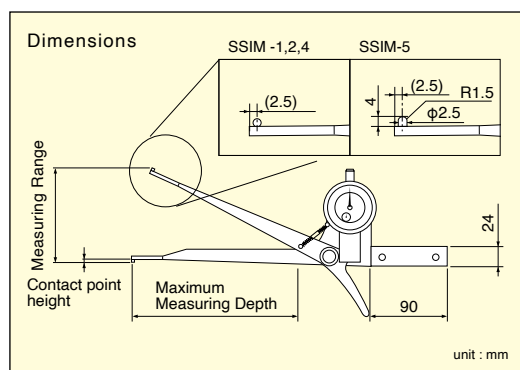
SSIM-4

- Maximum Measuring Depth 100mm
- Measuring Range 10-30mm

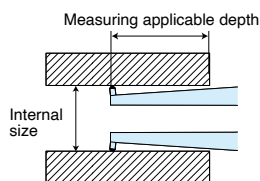


SSIM-5

- Maximum Measuring Depth 150mm
- Measuring Range 20-40mm



Internal size of workpiece is 10mm, 15mm, 20mm and 30mm or over against measuring applicable depth.



Model	Internal Size			
	10	15	20	30~
SSIM-1	35	50	80	130
SSIM-2	35	50	80	180
SSIM-4	35	50	80	100
SSIM-5	-	-	140	150

unit : mm

Inside of workpiece should be straight or round shape without step etc.

Specifications

Model	Resolution (mm)	Measuring Range (mm)	Indication Error(mm)	Maximum Measuring Depth (mm)	Contact Point Height(mm)	Contact Point Shape(mm)	Measuring Force(N)	IP Rating	Battery	Weight (g)
SSIM-1	0.1	10-90	±0.2	125	2	φ2.0	5 or less	IP67	CR2032	465
SSIM-2	0.1	10-90	±0.2	180	2	φ2.0	5 or less			585
SSIM-4	0.01	10-30	±0.03	100	2	φ2.0	5 or less			465
SSIM-5	0.01	20-40	±0.03	150	4	R1.5/φ2.0	5 or less			565

External Dial Caliper Gauge



- These gauges are designed for use in measuring external dimension of thick and large measuring work piece or special shape products which seem to be difficult to measure.
- Special order can be produced.

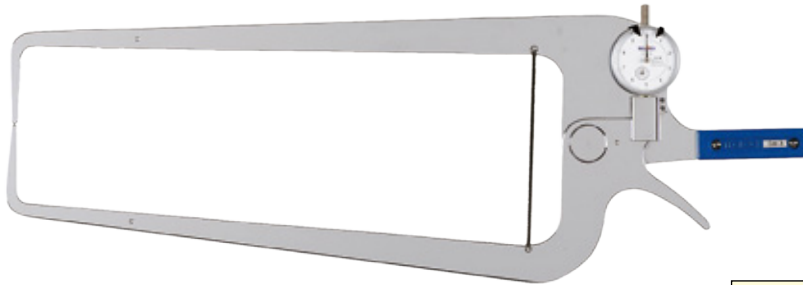
GM-1

- Maximum measuring depth 120mm
- Graduation 0.1mm
- Measuring Range 0-80mm



GM-2

- Maximum measuring depth 240mm
- Graduation 0.1mm
- Measuring Range 0-80mm

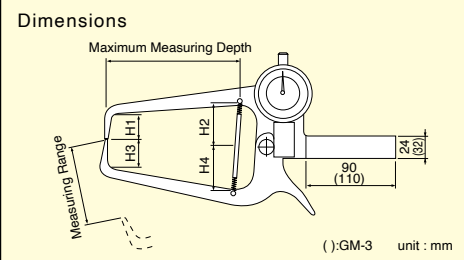


GM-3

- Maximum measuring depth 400mm
- Graduation 0.1mm
- Measuring Range 0-80mm



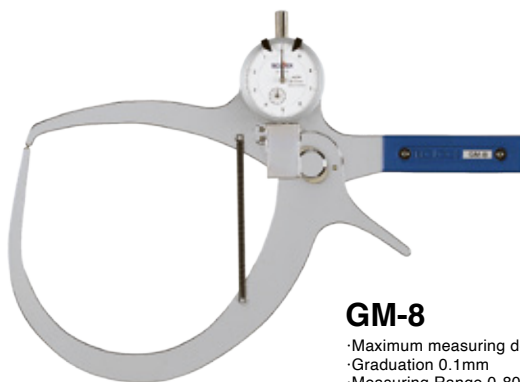
Overall length of GM-3 is large as 635mm.



Dimensions Table

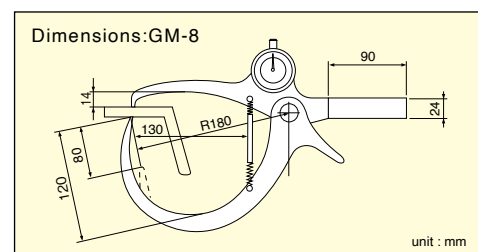
Model	H ₁	H ₂	H ₃	H ₄
GM-1	25	40	25	40
GM-2	50	60	50	60
GM-3	60	70	60	80

unit : mm



GM-8

- Maximum measuring depth 130mm
- Graduation 0.1mm
- Measuring Range 0-80mm



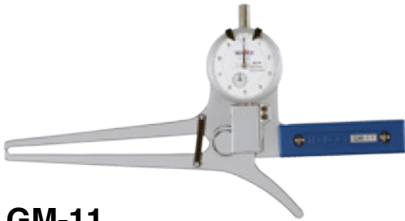
Specifications

Model	Graduation (mm)	Measuring Range (mm)	Indication Error (mm)	Maximum Measuring Depth (mm)	Measuring Force (N)	Weight (g)
GM-1	0.1	0-80	±0.2	120	5 or less	500
GM-2	0.1	0-80	±0.2	240	5 or less	800
GM-3	0.1	0-80	±0.2	400	10 or less	1,400
GM-8	0.1	0-80	±0.2	130	5 or less	630



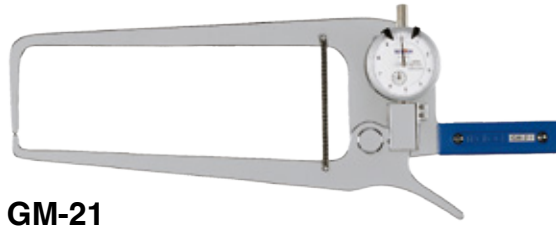
GM-9

- Maximum measuring depth 100mm
- Graduation 0.1mm
- Measuring Range 0-30mm



GM-11

- Maximum measuring depth 125mm
- Graduation 0.1mm
- Measuring Range 0-50mm



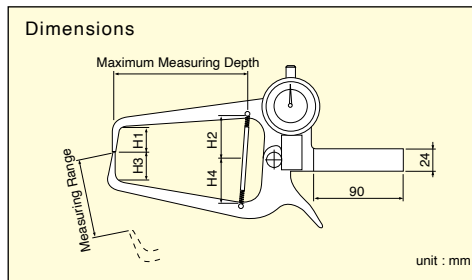
GM-21

- Maximum measuring depth 220mm
- Graduation 0.1mm
- Measuring Range 10-80mm



GM-22

- Maximum measuring depth 250mm
- Graduation 0.1mm
- Measuring Range 10-80mm



Dimensions Table

Model	H ₁	H ₂	H ₃	H ₄
GM-9	2	12	2	12
GM-11	2	6	2	6
GM-21	65	70	10	15
GM-22	20	25	65	70

unit : mm

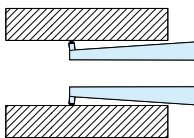
Specifications

Model	Graduation (mm)	Measuring Range (mm)	Indication Error (mm)	Maximum Measuring Depth (mm)	Measuring Force (N)	Weight (g)
GM-9	0.1	0-30	±0.2	100	5 or less	460
GM-11	0.1	0-50	±0.2	125	5 or less	430
GM-21	0.1	10-80	±0.2	220	5 or less	660
GM-22	0.1	10-80	±0.2	250	5 or less	700

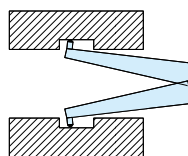
Usage Example

Internal Caliper Gauge

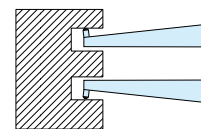
Internal dimension of deep position can be easily measured. (maximum measuring depth 180mm=IM-2)



Groove diameter of groove for "O" ring can be easily measured. (IM-808,IM-880 etc)

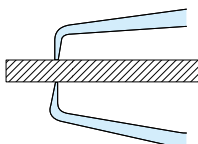


Measurement evading from screw, nuts etc. can be made.

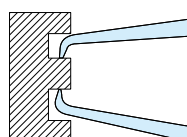


Internal Caliper Gauge

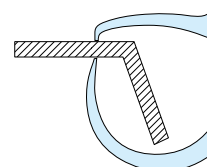
Thickness of long distance position of board shape workpiece can be measured. (maximum measuring depth 400mm=GM-3)



Thickness measurement in narrow area. (GM-9,GM-11)



It can measure evading obstacles in front of measuring point. (GM-8,GMD-8J)



External Digital Caliper Gauge

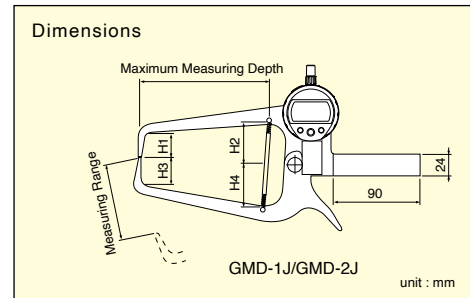


- External dimension measuring instrument of which digital gauge is built into frame.



GMD-1J

- Maximum measuring depth 120mm
- Measuring Range 0-80mm



Dimensions Table

Model	H ₁	H ₂	H ₃	H ₄
GMD-1J	25	40	25	40
GMD-2J	50	60	50	60

unit : mm



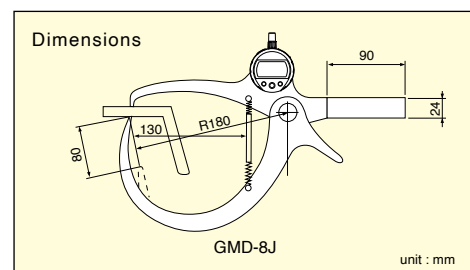
GMD-2J

- Maximum measuring depth 240mm
- Measuring Range 0-80mm



GMD-8J

- Maximum measuring depth 130mm
- Measuring Range 0-80mm



Specifications

Model	Graduation (mm)	Measuring Range (mm)	Indication Error (mm)	Maximum Measuring Depth (mm)	Measuring Force (N)	Weight (g)
GMD-1J	0.1	0-80	±0.2	120	5 or less	560
GMD-2J	0.1	0-80	±0.2	240	5 or less	830
GMD-8J	0.1	0-80	±0.2	130	5 or less	580

Bluetooth Digital External Caliper Gauge

NEW

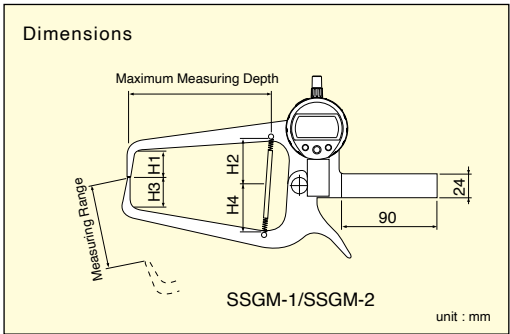
Features

- Measuring thickness of deep position and long distance position where measurement is difficult, for a big size work.
- Resolution 0.1mm model.
- Easy Searching Minimum value of thickness by Peak.
- hold mode(MIN mode).
- One-touch data sending to PC by built-in Bluetooth
- Data management by SmartMeasure Lite (free).



SSGM-1

- Maximum measuring depth 120mm
- Measuring Range 80mm



Dimensions Table

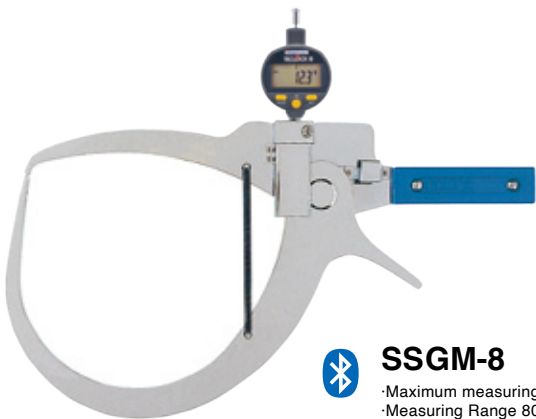
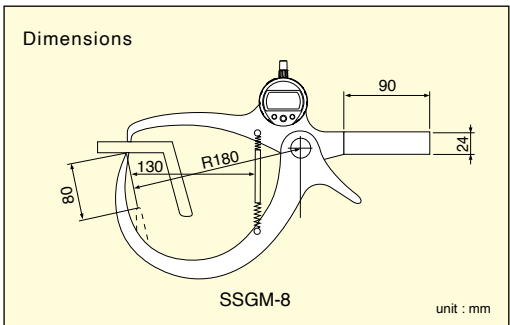
Model	H ₁	H ₂	H ₃	H ₄
SSGM-1	25	40	25	40
SSGM-2	50	60	50	60

unit : mm



SSGM-2

- Maximum measuring depth 240mm
- Measuring Range 80mm



SSGM-8

- Maximum measuring depth 130mm
- Measuring Range 80mm

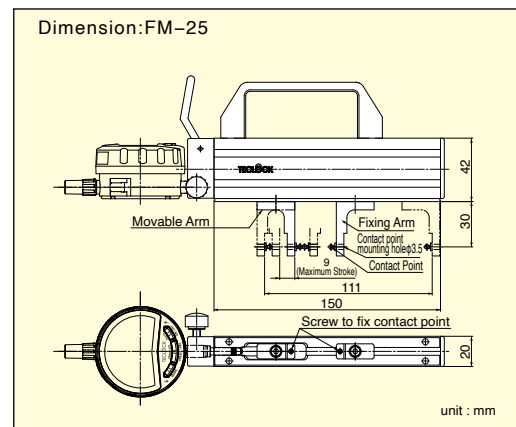
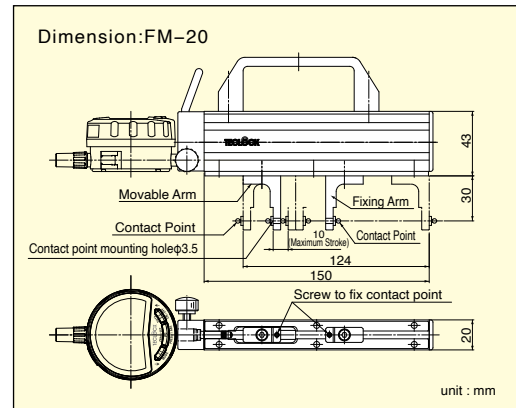
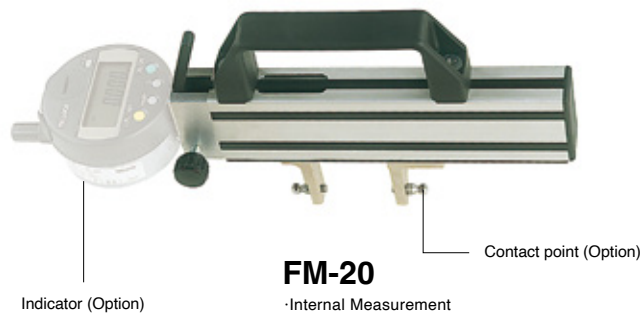
Specifications

Model	Resolution (mm)	Measuring Range (mm)	IndicationError (mm)	Maximum Measuring Depth(mm)	Measuring Force(N)	IP Rating	Battery	Weight (g)
SSGM-1	0.1	0-80	±0.2	120	5 or less	IP67	CR2032	465
SSGM-2	0.1	0-80	±0.2	240	5 or less			735
SSGM-8	0.1	0-80	±0.2	130	5 or less			485

Arm Slide Type Caliper Gauge



- Stable and accurate measuring dimension (comparative measurement) is possible for internal and external dimension, as this can well stick to workpiece with measurement method by sliding movable arm.
- Boxy type, easily to hold, lightweight and solid, this is suitable to inspect large volume at work site.
- This can be used for various objectives to measure internal gears, internal diameter female screw, plain gear, splin shaft of special key, over pin diameter of separation shaf and pitch gear thickness.
- Contact point is separately produced on demand such as ball type, flat type, knife edge type. Please advise dimension and shape.
- Digital indicator or Dial Indicator is optional.



Specifications

Model	Application	Measuring Range (mm)	Arm Length (mm)	Measuring Force (N)	Fitting Holes (mm)	Weight (g)
FM-20	Internal	20-130	30	7-9	φ3.5	380
FM-25	External	0-100	30	7-9	φ3.5	380

Contact point and digital indicator are not included.



Groove internal diameter is comparatively measured by using Digital indicator with 0.001mm resolution.