

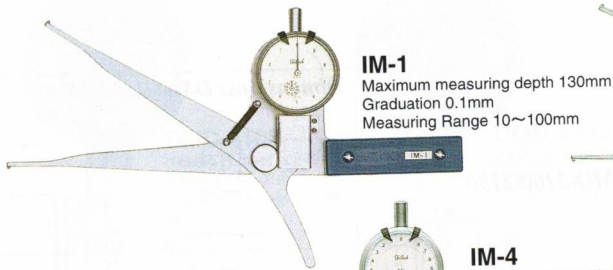
CALIPER GAUGES



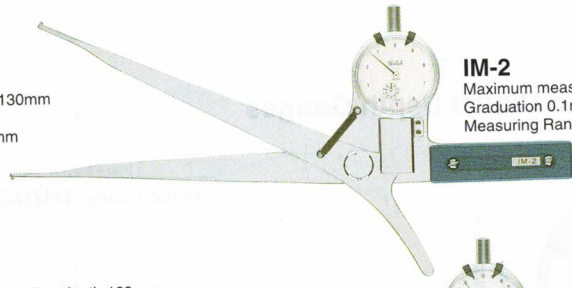
As to internal caliper gauge IM-880 series, the distance between contact points facing outside is firstly set at standard dimension with ring gauge or micrometer. Then, it is measured by inserting contact point into internal dimension part to be measured after its Outer Dial of which moves together with rotated Bezel is set at "zero". The displacement of indicator from "0" point of outer dial is to be measured at that time. The value adding 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 diameter. External caliper gauge is opposite, namely reading the value by holding workpiece with 2 contact points facing inside.

Internal Dial Caliper Gauges

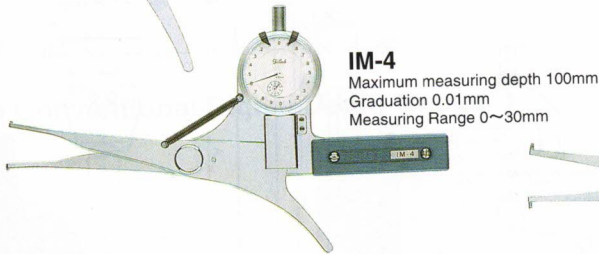
- These gauges are designed for use in measuring deep internal diameter of bores of castings etc, and for internal reading in fabrications. Clearance has been provided for use in recessed bores. The convenient retraction lever allows one-hand operation.



IM-1
Maximum measuring depth 130mm
Graduation 0.1mm
Measuring Range 10~100mm



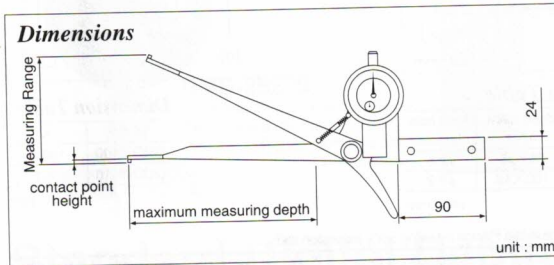
IM-2
Maximum measuring depth 180mm
Graduation 0.1mm
Measuring Range 10~100mm



IM-4
Maximum measuring depth 100mm
Graduation 0.01mm
Measuring Range 0~30mm



IM-5
Maximum measuring depth 150mm
Graduation 0.01mm
Measuring Range 20~40mm



Specifications

Model	Graduation (mm)	Measuring Range (mm)	Indication Error (mm)	Maximum measuring depth (mm)	Contact point height (mm)	Measuring Force (N)	Weight (g)
IM-1	0.1	10~100	±0.1	130	2	5 or less	500
IM-2	0.1	10~100	±0.1	180	2	5 or less	620
IM-4	0.01	10~30	±0.02	100	2	5 or less	500
IM-5	0.01	20~40	±0.02	150	4	5 or less	600

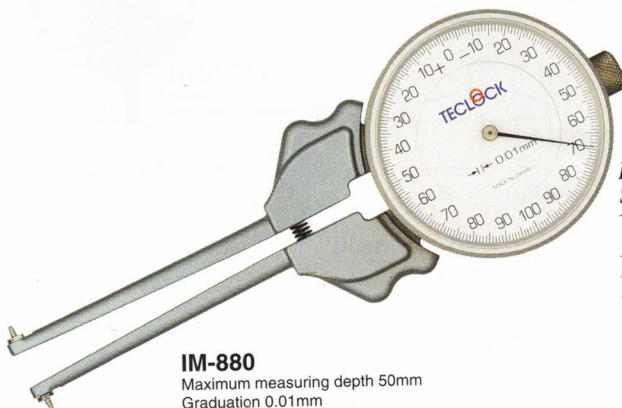
Internal size of workpiece is 10mm, 15mm, 20mm and 30mm or over against measuring applicable depth.

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.

- 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 50mm
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

Dimensions: Spare Contact Point (option)

