

Multi-functional Length Calibrator

ISO The best tool of length calibration



Invented Design Manufacture



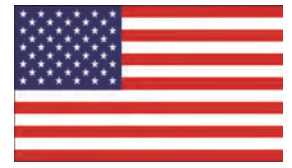
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Taiwan
invention patent



German
innovation patent



United States
invention patent



Multi-functional Length Calibrator

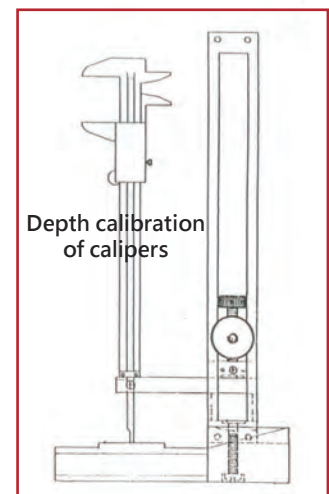
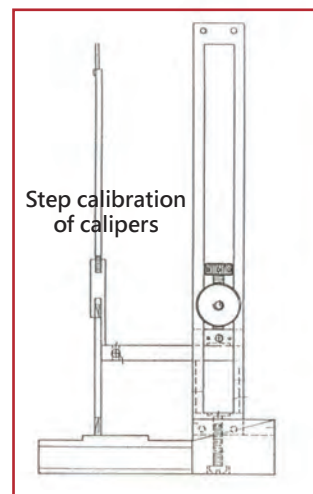
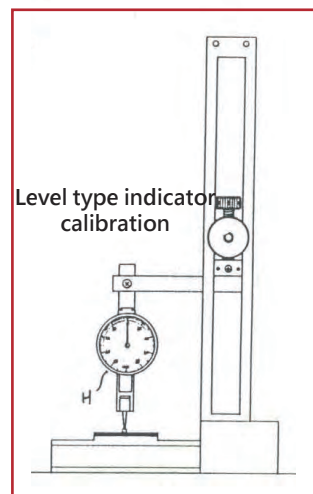
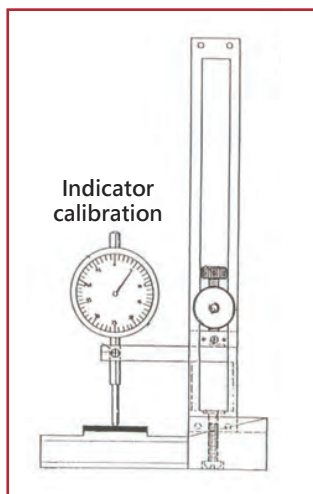
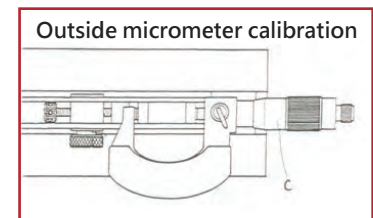
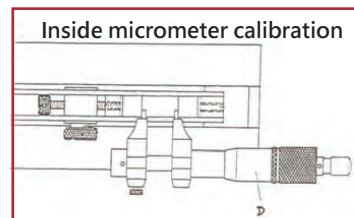
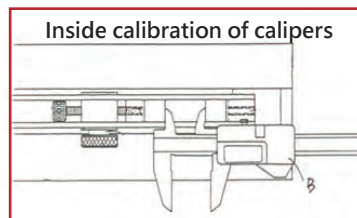
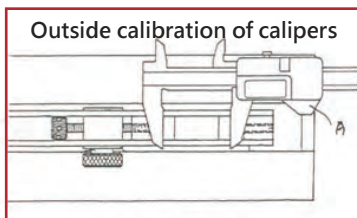
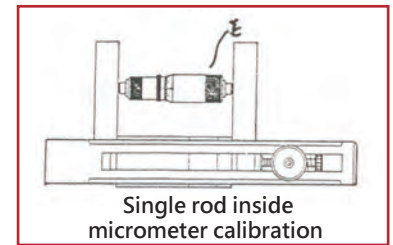
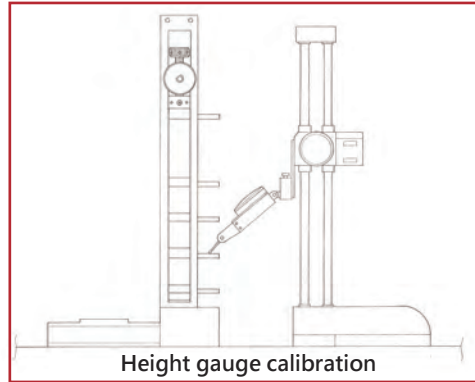


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ISO International Quality Standard certified
The best tool of length calibration



PERFECT Series



- For calibrating all types of calipers, inside micrometers, depth gauges, height gauge, indicators, bore gauges and other measuring applications.
- Made of heat treated hardened tool steel, hardness: HRC58-62
- Easy to operate, calibration can be made by simply moving slide to positions.
- Gauge blocks combination does not require wringing, therefore reduce wearing to gauge block surfaces.
- A few gauge blocks combination is sufficient to meet calibration point of ISO standard.
- Full set includes wooden case, operational manual, quality warranty, and JCC calibration report comply with ISO 9001 measuring traceability & ISO/IEC 17025 accreditation.
- Inspection reading: 0.1um

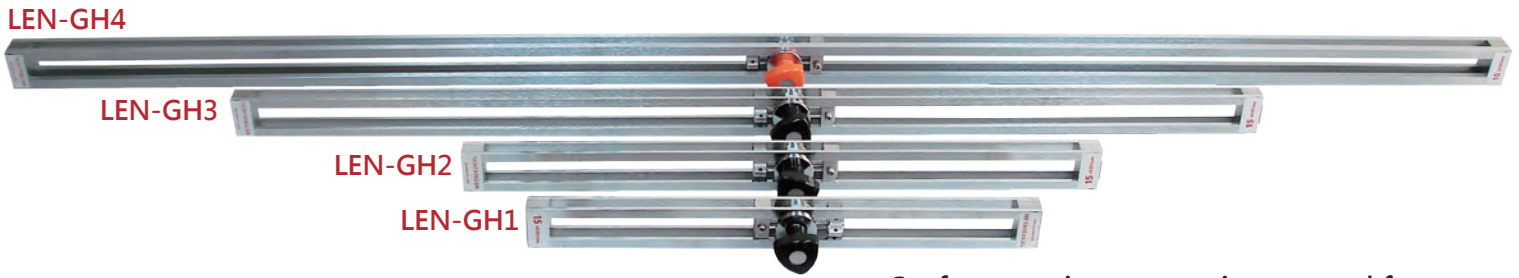
■ Multi-functional Length Calibrator

PERFECT Series

Standard accessories

■ Gauge Block Hold Standard

- *Hardened tool steel reference block, thickness 15mm. Accuracy: $\pm 0.0015\text{mm}$
- For holding standard gauge block, measuring jaws, height base and bore gage setter.
- *Steel frame with anti-rust treatment on the surface to ensure that the overall components are not rusted.



Surface coating rust resistant steel frame

Model No.	Range
LEN-GH0	100mm
LEN-GH1	200mm
LEN-GH2	300mm
LEN-GH3	600mm
LEN-GH4	1000mm



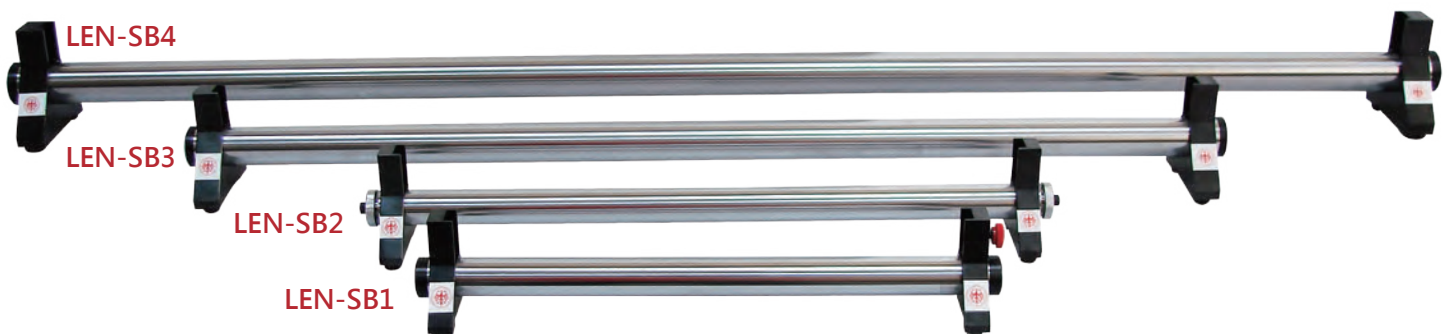
Standard reference blocks



Slide pressured locking device

■ Standard Hold Base

- *Chrome steel shaft, dual steel support for holding gauge block standard use.



Model No.	Specification
LEN-SB0	Length: 200mm Dia. $\Phi 20\text{mm}$
LEN-SB1	Length: 300mm Dia. $\Phi 25\text{mm}$
LEN-SB2	Length: 400mm Dia. $\Phi 25\text{mm}$
LEN-SB3	Length: 700mm Dia. $\Phi 30\text{mm}$
LEN-SB4	Length: 1100mm Dia. $\Phi 40\text{mm}$



Left side support



Right side support

■ Multi-functional Length Calibrator

PERFECT Series

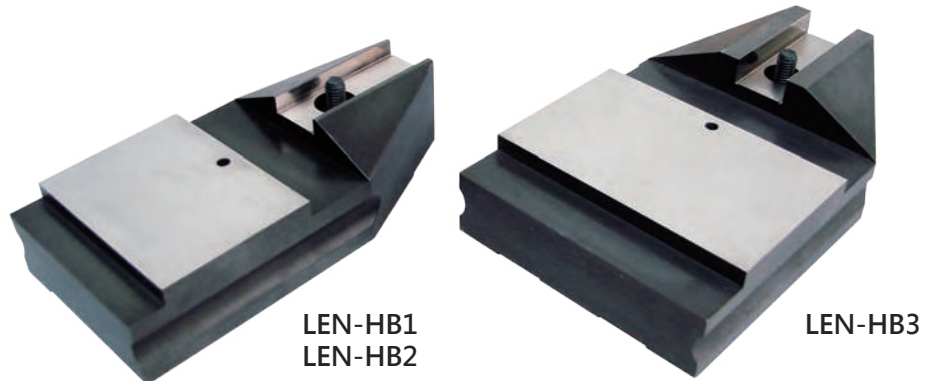
Standard accessories

■ Height Base

* Hardened tool steel, accuracy of height and surface: 0.002mm
For calibrating depth and steps of calipers, height gauge, bore gauge, indicator and etc.

Model No.	Specification
LEN-HB1	Reference Height : 25mm
LEN-HB2	
LEN-HB3	
LEN-HB4	

*LEN-HB1 and HB2 are the same.

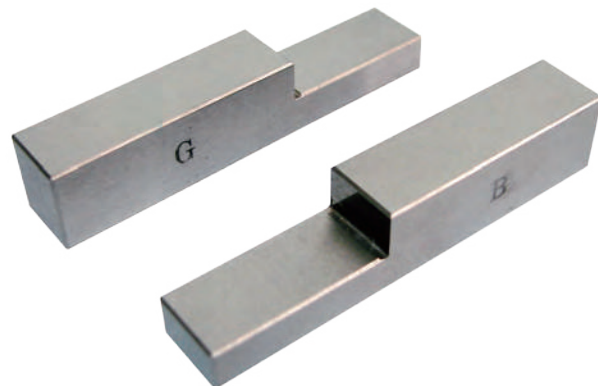


■ Two-Way Measuring Jaws Sets

*Length: 50mm, Hardened tool steel, accuracy: $\pm 0.0015\text{mm}$
For calibrating inside and outside dimension of calipers, micrometers, and height gauges.

Model No.	Specification
LEN-TJ1	2 Step size: 5/10mm x 6pcs
LEN-TJ2	2 Step size: 5/10mm x 7pcs
LEN-TJ3	2 Step size: 5/10mm x 10pcs
LEN-TJ4	2 Step size: 5/10mm x 14pcs

*Pair with our unique gauge blocks set to meet ISO calibration point of 5mm each steps.



■ Multi- Use measuring Jaws

*Length: 80mm, Hardened tool steel, accuracy: $\pm 0.0015\text{mm}$
For calibrating depth and steps of calipers, also for holding indicators.

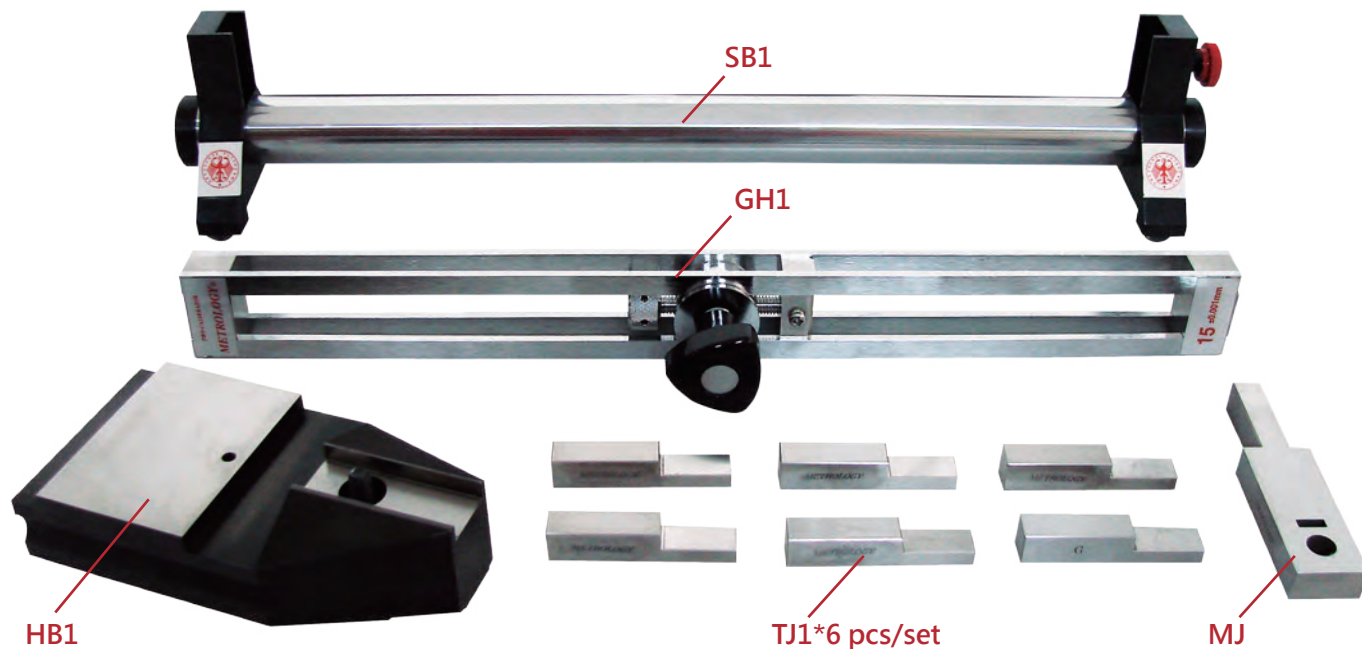
Model No.	Specification
LEN-MJ	Thickness: 10mm Dia.Φ: 8mm Slot width: 8*3mm



■ Multi-functional Length Calibrator (Full sets)

The best tool of length calibration

■ Example of full set standard accessories : LEN-9001=LEN-SB1+GH1+HB1+TJ1+MJ



PERFECT Series

Full set packing

Model No.	Calibration Range	Combination Max.error	Remark
LEN-9001	200mm	0.002mm	Accuracy :±0.0015mm (all parts)
LEN-9002	300mm	0.003mm	
LEN-9003	600mm	0.005mm	
LEN-9004	1000mm	0.008mm	



LEN-9001

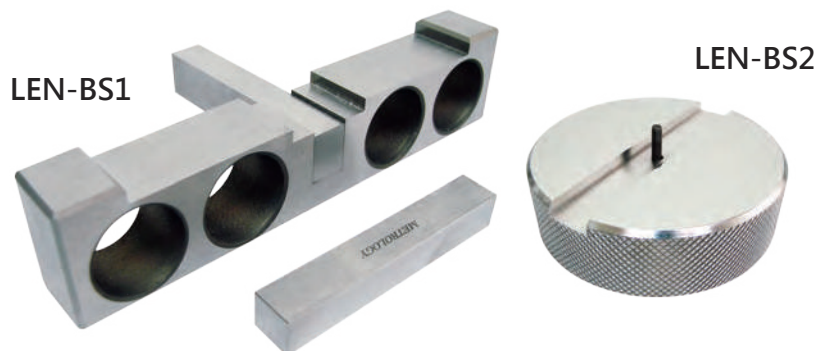
*Must be paired with flawless gauge blocks, and placed in the best temperature control environment within $\leq \pm 1^{\circ}\text{C}$

*Inspection reading: 0.1um

Optional accessories

■ Bore Gage Setter *Hardened tool steel, parallelism of measuring face: 0.001mm. For zero setting and accuracy inspection of bore gage.

Model No.	Specification
LEN-BS1	6~450mm Setting gauge / Pair Size : 125*55*18mm / 55x9x10mm
LEN-BS2	Setting base Dia.100mm



*Can be paired with LEN-HB1 height base, same functions as LEN-BS2

■ Multi-functional Length Calibrator

PERFECT Series

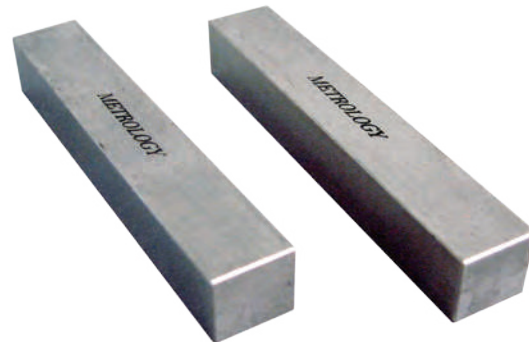
Optional accessories

■ Parallel Measuring Jaws

*Hardened tool steel, accuracy: hardened tool steel, accuracy: $\pm 0.0015\text{mm}$
parallelism: 0.001mm

For calibrating inside, outside of calipers, micrometers, single rod and extension rod type inside micrometers, and measuring of set limit.

Model No.	Specification
LEN-PJ	2pcs / Pair Thickness: 10mm Length: 60mm

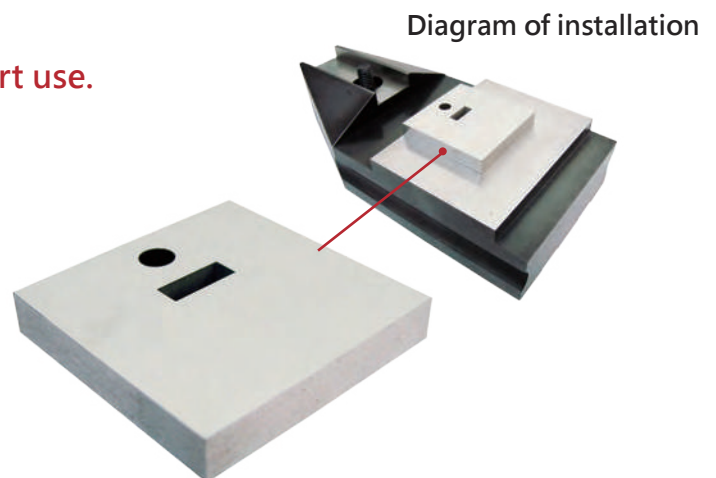


■ Setting Gauge

*Hardened tool steel, precision grinding.

For caliper depth and step calibration support use.

Model No.	Specification
LEN-SG	Size: 30*30mm Thickness: 5mm Slot width: 8*3mm



■ Gauge Block Sets

*For calibrating calipers inside & outside, micrometers, height gauge, indicator, depth gage, bore gage.

*The flatness, parallelism & dimension accuracy of all gauge block measuring faces are guaranteed to be $\leq 0.2\mu\text{m}$.

*Calibration points are according to ISO standards.

Model No.	Specification
LEN-GB1	5, 10, 20, 40mm *3pcs
LEN-GB2	5, 10, 20, 40*3pcs, 90mm *1pcs
LEN-GB3	5, 10, 20, 40*3pcs, 90mm *4pcs
LEN-GB4	5, 10, 20, 40*3pcs, 90mm *8pcs



LEN-GB1

*Accuracy: DIN876/ 1, must be paired with above specified gauge blocks and two-way measuring jaws set to meet calibration points of ISO standard.

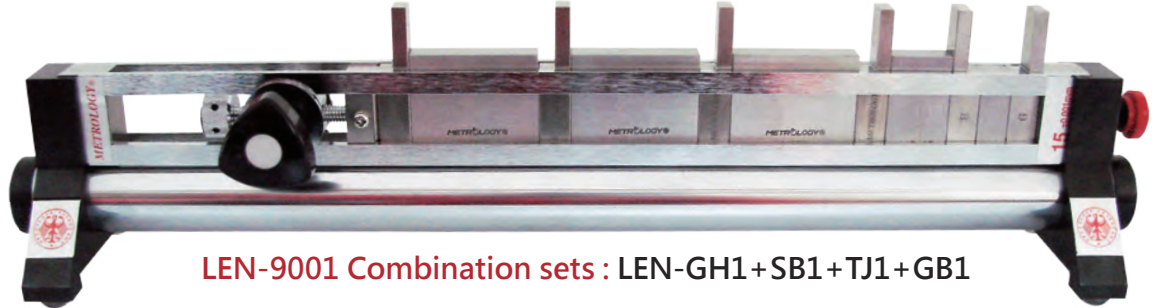
*ISO length standard calibration points: 25、50、100、150、200、300、400、500、600、700、800、900、1000mm

Multi-functional Length Calibrator

PERFECT Series

Calibration diagram

Incredible calibration functions



LEN-9001 Combination sets : LEN-GH1+SB1+TJ1+GB1

Calibration of 4 measuring utilities

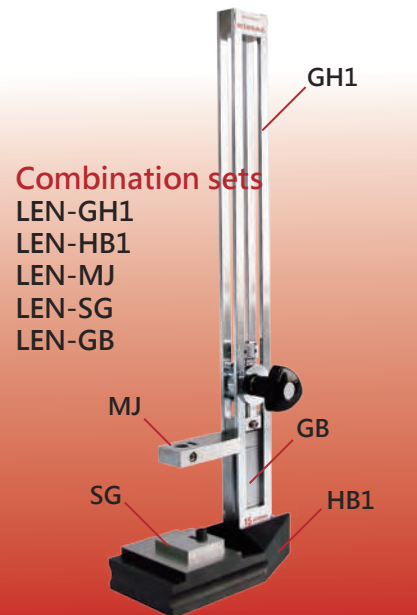
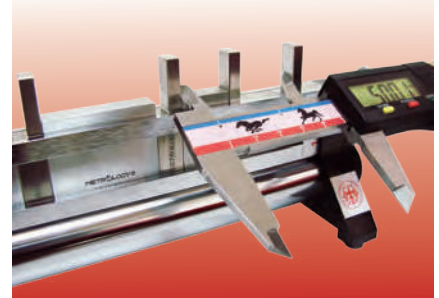
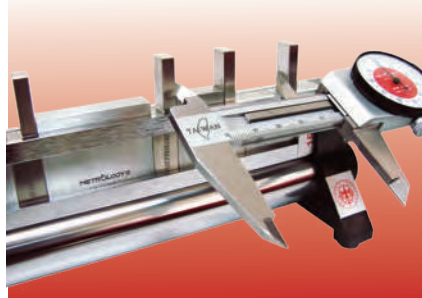
Caliper external calibration

Combination calibration points : 25 · 50 · 100 · 150 · 200mm



Caliper internal calibration

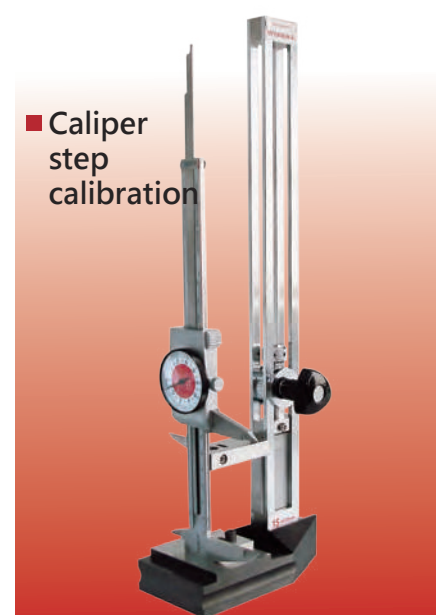
Combination calibration points : 25 · 50 · 100 · 150 · 200mm



Combination sets
LEN-GH1
LEN-HB1
LEN-MJ
LEN-SG
LEN-GB



Caliper depth calibration



Caliper step calibration

■ Multi-functional Length Calibrator

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Calibration diagram

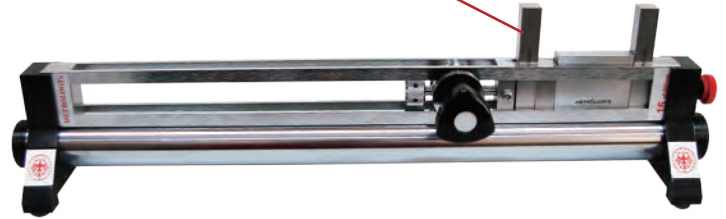
Incredible calibration functions



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TJ Two-Way Measuring Jaws

PJ Parallel measuring jaws

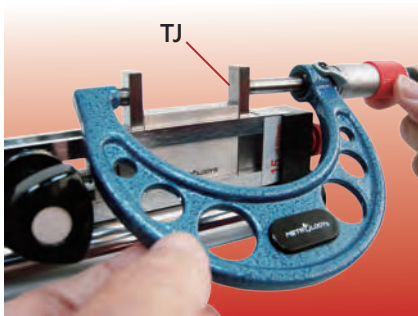


Combination sets
LEN-GH1+SB1+TJ1+GB1

Combination sets
LEN-GH1+SB1+PJ+GB1

■ Outside micrometer calibration

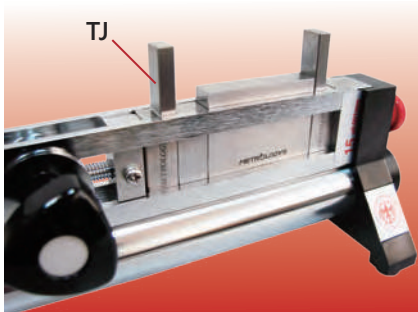
Combination calibration point at every 5mm steps



*Must be paired with LEN-TJ Two-Way measuring jaws

■ Inside micrometer calibration

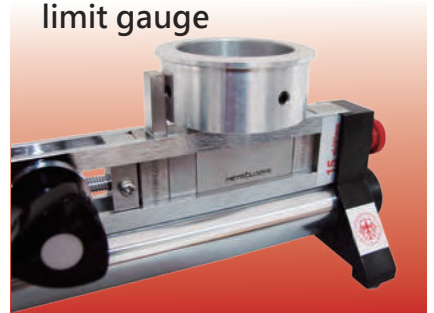
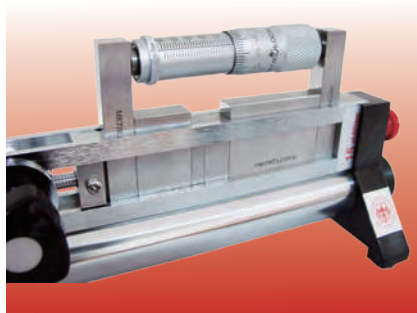
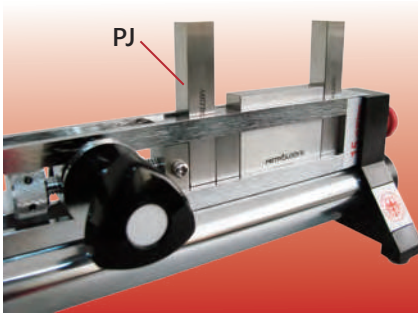
Combination calibration point at every 5mm steps



*Must be paired with LEN-TJ Two-Way measuring jaws

■ Single rod and extension rod inside micrometer calibration

■ Set measuring limit as limit gauge



*Must be paired with LEN-PJ parallel measuring jaws

■ Multi-functional Length Calibrator

PERFECT Series

Calibration diagram

Incredible calibration functions

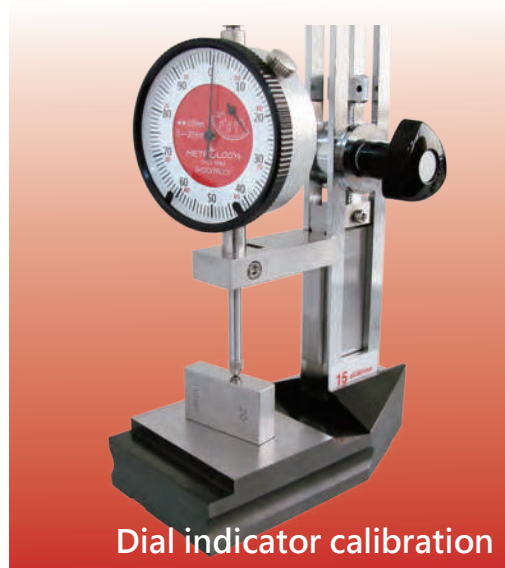
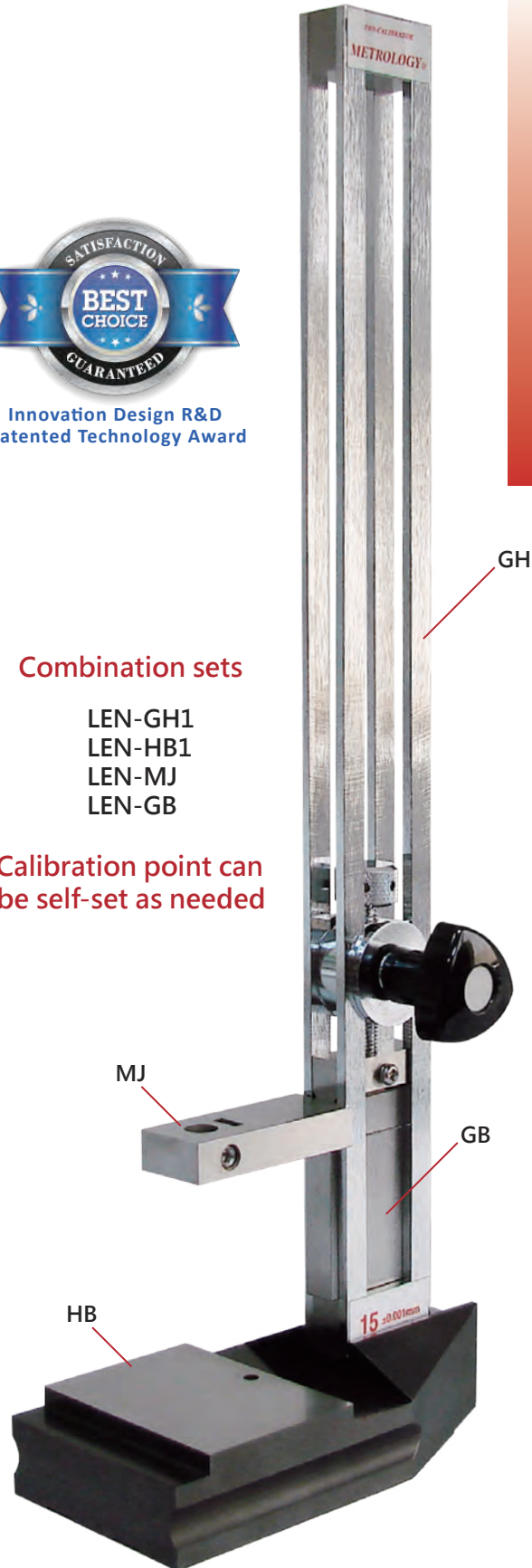


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Combination sets

- LEN-GH1
- LEN-HB1
- LEN-MJ
- LEN-GB

*Calibration point can be self-set as needed



Dial indicator calibration



Digital indicator calibration



Level-type indicator calibration

■ Multi-functional Length Calibrator

PERFECT Series

Calibration diagram

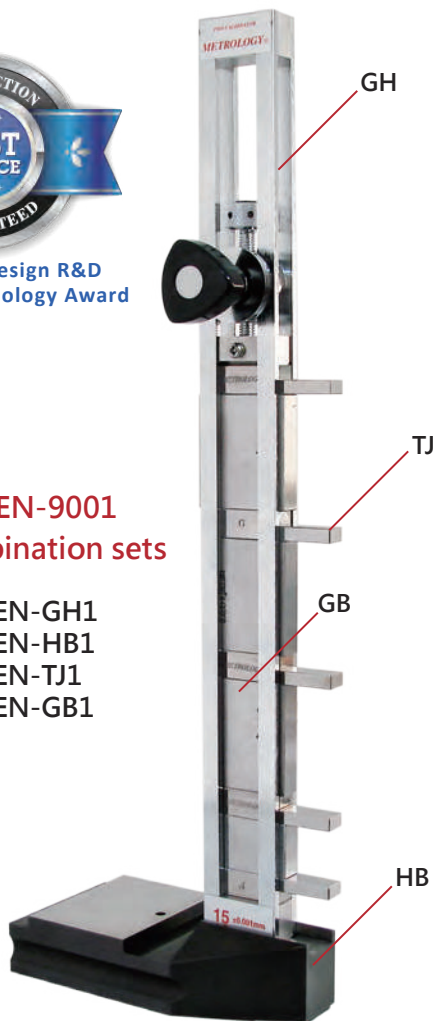
Incredible calibration functions



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LEN-9001
Combination sets

- LEN-GH1
- LEN-HB1
- LEN-TJ1
- LEN-GB1



Combination calibration point : 25 · 50 · 100 · 150 · 200mm



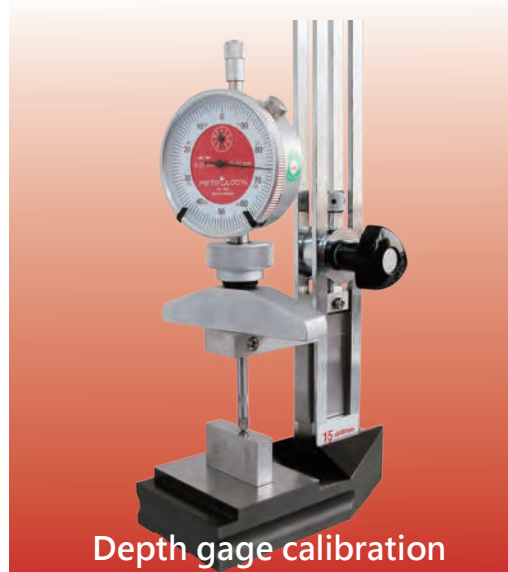
Depth caliper calibration



Depth micrometer calibration



Height gage calibration



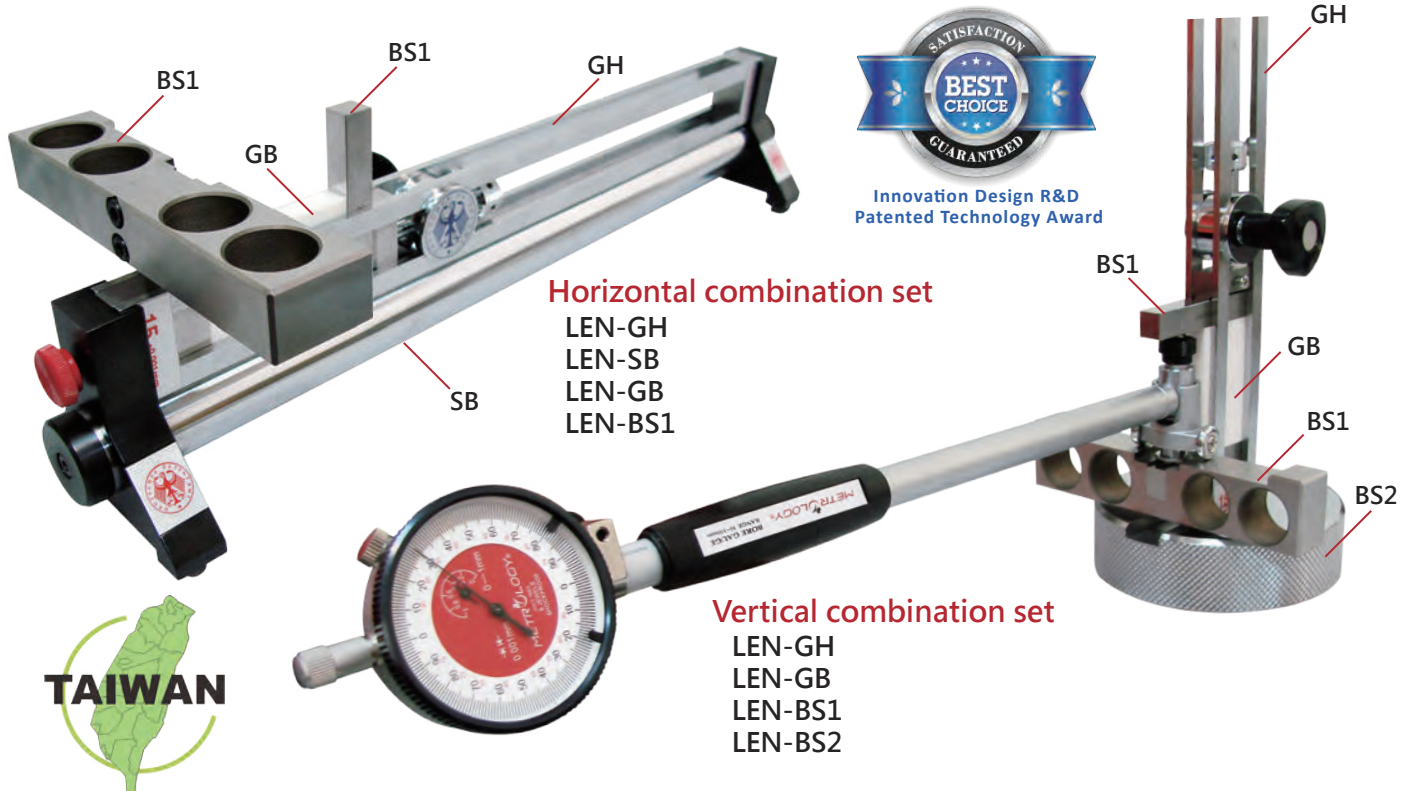
Depth gage calibration

■ Multi-functional Length Calibrator

PERFECT Series

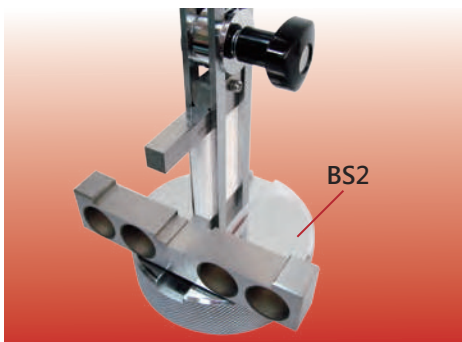
Calibration diagram

Incredible calibration functions

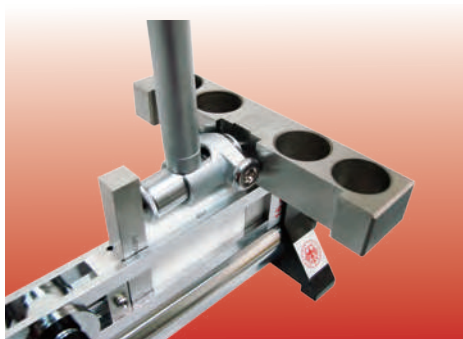
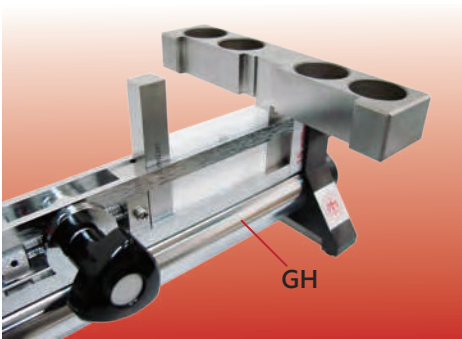


Invented Design Manufacture

Bore gauge calibration & set zero



Vertical setting and calibration



Horizontal setting and calibration

Multi-functional Length Calibrator

PERFECT Series

Calibration diagram

Incredible calibration functions



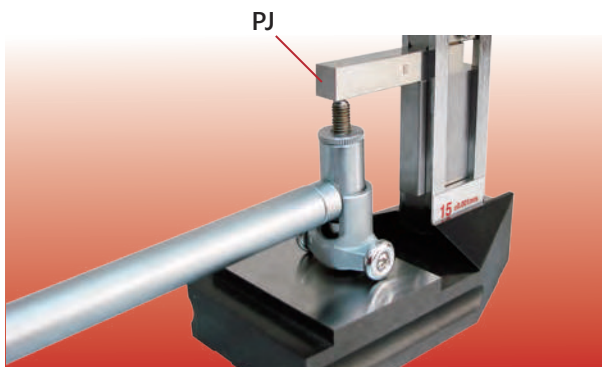
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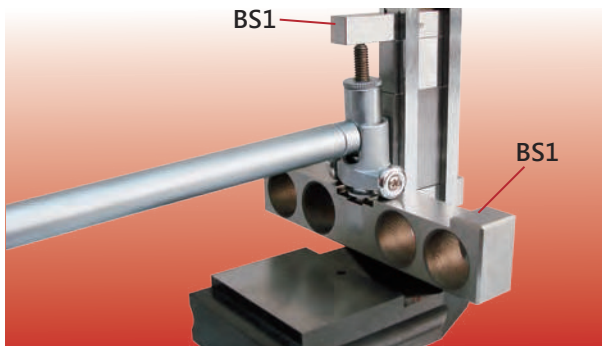
Invented Design Manufacture

Vertical combination set

- LEN-GH
- LEN-HB
- LEN-GB
- LEN-BS1



Bore gauge calibration & set zero



Examples of measuring tool that can be calibrated



MORE
CALIBRATION & MEASURING FUNCTION