

Mitutoyo



MEASURING INSTRUMENTS CATALOG

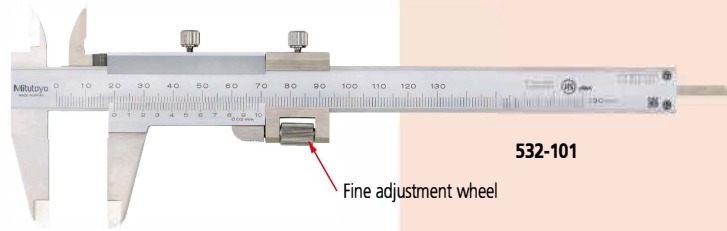


Calipers

An industry standard measuring tool

Vernier Caliper SERIES 532 — with fine adjustment

- Fine-adjustment aids slider positioning.
- Allows step measurement.



532-101

Fine adjustment wheel

SPECIFICATIONS

Metric				
Order No.	Range (mm)	Maximum Permissible Error* ¹ (mm) • EMPE (outside measurement) • SMPE (inside measurement)	Depth bar	Remarks
532-101* ²	0 - 130	±0.03	Blade	with fine adjustment
532-102* ²	0 - 180	±0.03		
532-103* ²	0 - 280	±0.04		

*1 Partial Measuring Face Contact Error EMPE/Scale Shift Error SMPE are terms (notations) used in JIS B 7507: 2016, revised based on ISO 13385-1: 2011. The measurement method is the same as before.

*2 Graduation: 0.02 mm

Metric/Inch with metric/inch double scale

Order No.	Range (mm)	Accuracy (mm)	Depth bar	Graduation	Remarks
532-119	0 - 130	±0.03	Blade	0.02 mm (0.001 in)	with fine adjustment
532-120	0 - 180	±0.03			
532-121	0 - 280	±0.04			

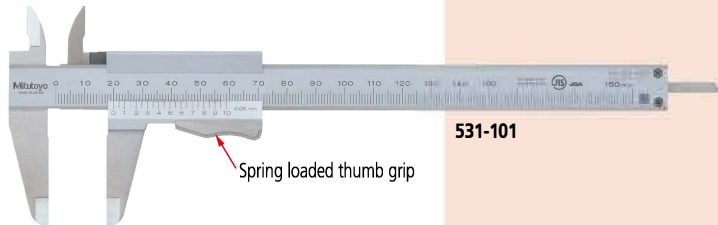
DIMENSIONS

Unit: mm									
		Range	A	B	D	E	F	H	L
		0 - 130 mm/0 - 5 in	17	21.5	40	53.5	31.2	16	229
		0 - 180 mm/0 - 7 in	20.5	25	50	53.5	31.2	16	288
		0 - 280 mm/0 - 11 in	22	27.5	64	66.5	38	20	404

Jaw thickness: 3 mm for 0 to 130 mm/0 to 5 inch and 0 to 180 mm/0 to 7 inch models
3.8 mm for 0 to 280 mm/0 to 11 inch model

Vernier Caliper 531 Series — with thumb grip

- The slider moves only when the spring-loaded thumb grip is depressed.
- Allows step measurement.



531-101

Spring loaded thumb grip

SPECIFICATIONS

Metric				
Order No.	Range (mm)	Maximum Permissible Error* ¹ (mm) • EMPE (outside measurement) • SMPE (inside measurement)	Depth bar	Remarks
531-101* ²	0 - 150	±0.05	Blade	—
531-102* ²	0 - 200			
531-103* ²	0 - 300	±0.08		

*1 Partial Measuring Face Contact Error EMPE/Scale Shift Error SMPE are terms (notations) used in JIS B 7507: 2016, revised based on ISO 13385-1: 2011. The measurement method is the same as before.

*2 Graduation: 0.05 mm

Metric/Inch with metric/inch double scale

Order No.	Range (mm)	Accuracy (mm)	Depth bar	Graduation	Remarks
531-122	0 - 150	±0.05	Blade	0.05 mm (1/128 in)	with inch/mm conversion label
531-128		±0.03		0.02 mm (0.001 in)	High accuracy model
531-108		±0.05		0.05 mm (1/128 in)	—
531-129	0 - 200	±0.03		0.02 mm (0.001 in)	High accuracy model
531-109		±0.08		0.05 mm (1/128 in)	—
531-112	0 - 300	±0.04		0.02 mm (0.001 in)	High accuracy model

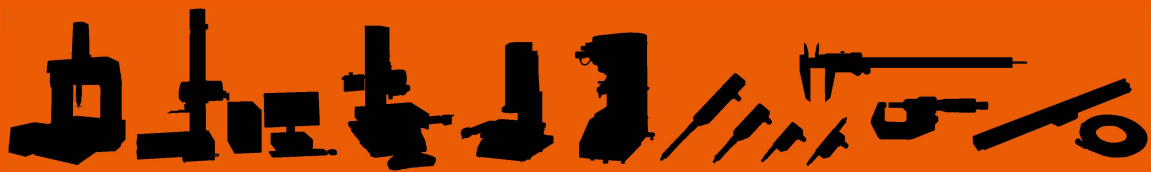
Jaw thickness: 3 mm for 0 to 150 mm/0 to 6 inch and 0 to 200 mm/0 to 8 inch models
3.8 mm for 0 to 300 mm/0 to 12 inch model

DIMENSIONS

Unit: mm							
		Range	A	B	D	H	L
		0 - 150 mm/0 - 6 in	17	21.5	40	16	229
		0 - 200 mm/0 - 8 in	20.5	25	50	16	288
		0 - 300 mm/0 - 12 in	22	27.5	64	20	404

Jaw thickness: 3 mm for 0 to 150 mm/0 to 6 inch and 0 to 200 mm/0 to 8 inch models
3.8 mm for 0 to 300 mm/0 to 12 inch model

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