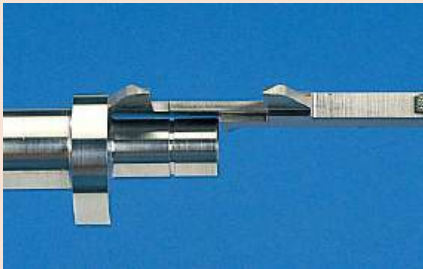
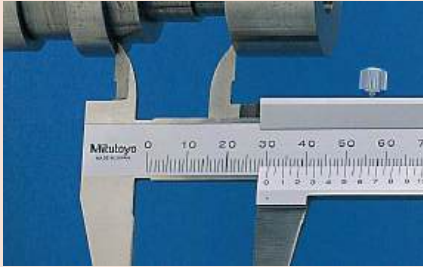
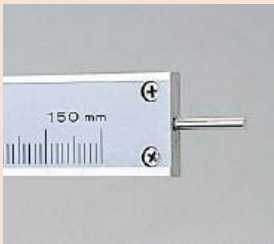


Vernier Caliper SERIES 530 — Standard model

Measurement example



Round depth bar type



530-102

Carbide-tipped jaws for outside measurement



530-320

- Stepped graduation face prevents dust ingress between the main scale and slider.
- The small vernier face angle (14°) provides easy reading.
- Can measure steps, since the end faces of the beam and slider are the zero reference

- point (measuring face). Standard calipers allow four types of measurement, i.e. outside, inside, depth, and step.
- Carbide-tipped jaw calipers are optimal for rough finished parts, castings, grinding stones, etc.



530-101

SPECIFICATIONS

Metric					
Order No.	Range (mm)	Maximum permissible error (mm)*1 • EMPE (outside measurement) • SMPE (inside measurement)	Depth bar	Graduation (mm)	Remarks
530-101	0 - 150	±0.05	Blade	0.05	—
530-122	0 - 150	±0.03		0.02	High accuracy model
530-108	0 - 200	±0.05		0.05	—
530-123	0 - 200	±0.03		0.02	High accuracy model
530-109	0 - 300	±0.08		0.05	—
530-124	0 - 300	±0.04		0.02	High accuracy model

Order No.	Range (mm)	Maximum permissible error (mm)*2		Depth bar	Graduation (mm)	Remarks
		EMPE	SMPE			
530-100	0 - 100	±0.05	±0.07	ø1.9 mm rod	0.05	—
530-102	0 - 150	±0.05	±0.07			—
530-320		±0.05	±0.07	Blade		Carbide-tipped jaws for outside measurement
530-335		±0.05	±0.07			Carbide-tipped jaws for outside and inside measurement
530-321		0 - 200	±0.05			±0.07
530-322	0 - 300	±0.08	±0.10	Carbide-tipped jaws for outside measurement		
530-501	0 - 600	±0.10	±0.12	—		—
530-502	0 - 1000	±0.15	±0.17			

Metric/Inch		with metric/inch double scale					
Order No.	Range	Maximum permissible error		Depth bar	Graduation	Remarks	
		EMPE	SMPE				
530-104	0 - 150 mm / 0 - 6 in	±0.05 mm / ±0.5/128 in	±0.07 mm / ±0.5/128 in	Blade	0.05 mm (1/128 in)	—	
530-316						Clamping screw below the slider	
530-312					High accuracy model: ±0.03 mm		
530-114	0 - 200 mm / 0 - 8 in					0.05 mm (1/128 in)	—
530-118						0.02 mm (0.001 in)	High accuracy model: ±0.03 mm
530-115	0 - 300 mm / 0 - 12 in	±0.08 mm / ±0.5/128 in	±0.010 mm / ±0.5/128 in			0.05 mm (1/128 in)	—
530-119					0.02 mm (0.001 in)	High accuracy model: ±0.04 mm	

Inch		with inch/inch double scale				
Order No.	Range (in)	Maximum permissible error (in)		Depth bar	Graduation (in)	Remarks
		EMPE	SMPE			
530-105	0 - 6	±0.5/128	±0.5/128	Blade	0.001	—
530-116	0 - 8	+0.5/128	+0.5/128			

*1 Partial Measuring Face Contact Error, EMPE and Shift Error, SMPE are terms (notations) used in JIS B 7507: 2016, revised based on ISO 13385-1: 2011. Refer to page D-45 for details.

*2 Partial Surface Contact Error, EMPE and Shift Error, SMPE are terms (notations) used in ISO 13385-1:2019.