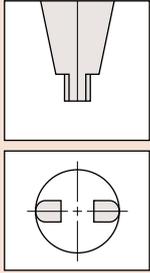
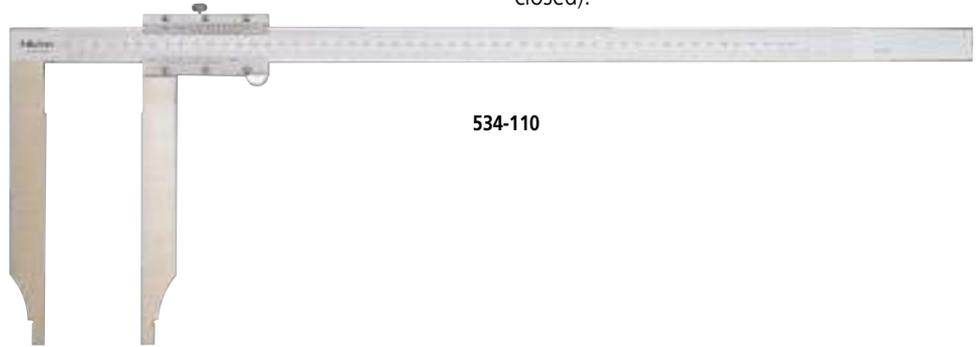


## Long Jaw Vernier Caliper SERIES 534

- Long jaws for measuring hard-to-reach workpiece features.
- Inside and outside measurements can be read directly from the upper and lower vernier scales.
- Inside measurement is possible upwards from the minimum inside measuring length (jaws closed).



Round jaws for accurate ID measurement



534-110

### SPECIFICATIONS

**Metric** with inside measurement vernier scale

Order No.	Range (mm)*1	Graduation (mm)	Maximum permissible error (mm)*2		Remarks
			$E_{MPE}$	$S_{MPE}$	
534-109	0 (10.1) - 300	0.05	±0.07	±0.07	without fine adjustment
534-110	0 (20.1) - 500		±0.13	±0.13	

\*1 ( ): Minimum dimension in ID measurement

\*2 Partial Surface Contact Error,  $E_{MPE}$  and Shift Error,  $S_{MPE}$  are terms (notations) used in ISO 13385-1:2019.

**Metric/Inch** with metric/inch double scale

Order No.	Range (mm)*1	Graduation	Maximum permissible error (mm)*2		Remarks
			$E_{MPE}$	$S_{MPE}$	
534-101	0 (10.1) - 300	0.05 mm/1/128 in	±0.07	±0.07	+10 mm/0.394 in to reading in inside measurement without fine adjustment
534-105		0.02 mm/0.001 in	±0.04	±0.04	
534-102	0 (20.1) - 500	0.05 mm/1/128 in	±0.13	±0.13	+20 mm/0.787 in to reading in inside measurement without fine adjustment
534-106		0.02 mm/0.001 in	±0.06	±0.06	
534-103	0 (20.1) - 750	0.05 mm/1/128 in	±0.16	±0.16	
534-107		0.02 mm/0.001 in	±0.08	±0.08	
534-104	0 (20.1) - 1000	0.05 mm/1/128 in	±0.20	±0.20	
534-108		0.02 mm/0.001 in	±0.10	±0.10	

\*1 ( ): Minimum dimension in ID measurement

\*2 Partial Surface Contact Error,  $E_{MPE}$  and Shift Error,  $S_{MPE}$  are terms (notations) used in ISO 13385-1:2019.

Note: For external dimensions, refer to the **series 534** on page D-23.

# Calipers

An industry standard measuring tool

## Long Jaw Vernier Caliper SERIES 534

- Long jaws for measuring hard-to-reach workpiece features.
- Inside and outside measurements can be read directly from the upper and lower vernier scales.
- The fine-adjustment wheel enables precise feed and adjustment.
- Inside measurement is possible upwards from the minimum inside measuring length (jaws closed).



534-114

## SPECIFICATIONS

**Metric** with inside measurement vernier scale

Order No.	Range (mm)*1	Graduation (mm)	Maximum permissible error (mm)*2		Remarks
			$E_{MPE}$	$S_{MPE}$	
534-113	0 (10.1) - 300	0.02	±0.04	±0.04	with fine adjustment
534-114	0 (20.1) - 500		±0.06	±0.06	
534-115	0 (20.1) - 750		±0.08	±0.08	
534-116	0 (20.1) - 1000		±0.10	±0.10	

\*1 ( ) : Minimum dimension in ID measurement

\*2 Partial Surface Contact Error,  $E_{MPE}$  and Shift Error,  $S_{MPE}$  are terms (notations) used in ISO 13385-1:2019.

**Inch** with inside measurement vernier scale

Order No.	Range (in)*1	Graduation (in)	Maximum permissible error (in)*2		Remarks
			$E_{MPE}$	$S_{MPE}$	
534-117	0 (0.304) - 12	0.001	±0.002	±0.002	with fine adjustment
534-118	0 (0.804) - 20		±0.003	±0.003	
534-119	0 (0.804) - 30		±0.004	±0.004	
534-120	0 (0.804) - 40		±0.004	±0.004	

\*1 ( ) : Minimum dimension in ID measurement

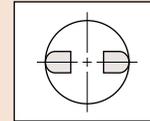
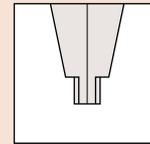
\*2 Partial Surface Contact Error,  $E_{MPE}$  and Shift Error,  $S_{MPE}$  are terms (notations) used in ISO 13385-1:2019.

## DIMENSIONS

Unit: mm

Range	D	E	F	H	L	M	R	S	t
0 - 300 mm*	90	76.5	—	20	445	7	R5	12	3.8
0 - 300 mm/0 - 12 in		103	38				R5		
0 - 500 mm*	200	89	—	25	682	12	R10	18.5	6
0 - 500 mm/0 - 20 in		112	51				R10		
0 - 750 mm*	150	—	—	32	995	12	R10	18.5	6
0 - 750 mm/0 - 30 in		62.5	—				R10		
0 - 1000 mm*	150	—	—	32	1230	12	R10	18.5	8
0 - 1000 mm/0 - 40 in		62.5	—				R10		

\* Without fine adjustment



Radiused jaws for accurate ID measurement