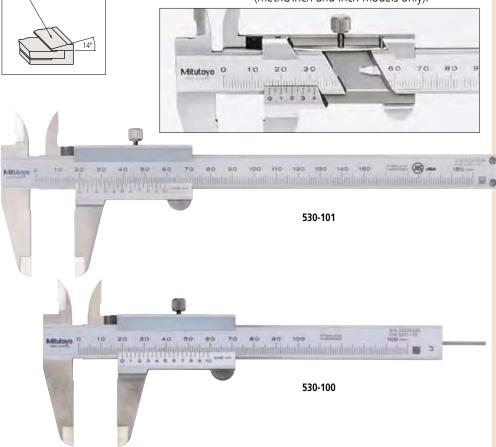
Calipers

An industry standard in measuring tools

Vernier Caliper 530 Series — Standard model

- Plain and basic design.
- Stepped graduation face prevents dust ingress between the main scale and slider.
- The small vernier face angle (14°) provides easy reading.
- Can measure outside and inside dimensions, depth, and steps.
- Carbide-tipped jaw calipers are optimal for rough finished parts, castings, grinding stones, etc.
- Decimal and fractional graduated scales (metric/inch and inch models only).

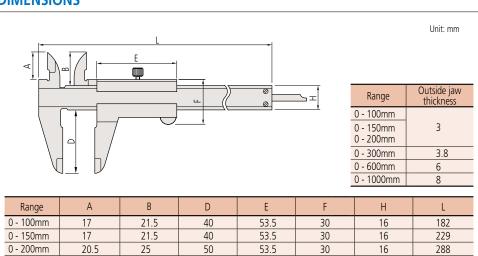


DIMENSIONS

0 - 300mm

0 - 600mm

0 - 1000mm



66.5

89

36

50

61

20

25

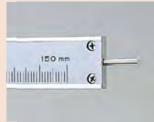
404

780

1240

27.5

47



530-102 (Round depth bar type)



530-320 (Carbide-tipped jaw type)

22

38

64

90

130

⁶⁰ * Code No.530-100 and No.530-102 incorporate a round depth bar (ø1.9mm). The depth bar shown in the illustration above is a different type.

Technical Data

Accuracy:

±0.05mm (≤200mm), ±0.08mm (≤300mm) ±0.10mm (≤600mm), ±0.15mm (≤1000mm)

High accuracy type: ±0.03mm (≤200mm), ±0.04mm (≤300mm) Graduation: 0.05mm, 0.05mm (1/128") or .001" (1/128")

High accuracy type: 0.02mm or 0.02mm (.001")

SPECIFICATIONS

Metric ———								
Order No.	Range	Depth bar	Remarks					
530-100	0 - 100mm	ø1.9mm rod	_					
530-102		Ø1.9HIII1100	_					
530-101			_					
530-320	0 - 150mm		Carbide-tipped jaws for outside measurement					
530-335			Carbide-tipped jaws for outside and inside measurement					
530-122*		Blade	High accuracy model: ±0.03mm					
530-108			_					
530-321	0 - 200mm		Carbide-tipped jaws for outside measurement					
530-123*			High accuracy model: ±0.03mm					
530-109			_					
530-322	0 - 300mm		Carbide-tipped jaws for outside measurement					
530-124*			High accuracy model: ±0.04mm					
530-501	0 - 600mm							
530-502	0 - 1000mm		_					

^{*} Graduation: 0.02mm

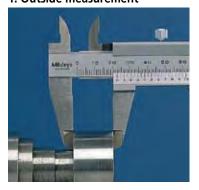
Metric/Inch	with metric/inc	h double scale		
Order No.	Range	Depth bar	Inch graduation	Remarks
530-104			1/128"	_
530-316	0 - 150mm	Blade	1/128"	Clamping screw below the slider
530-312*			.001 "	High accuracy model: ±0.03mm
530-114	0. 200mm		1/128"	_
530-118*	0 - 200mm		.001 "	High accuracy model: ±0.03mm
530-115	0 - 300mm		1/128"	_
530-119*	0 - 300111111		.001"	High accuracy model: ±0.04mm

^{*} Graduation: 0.02mm

Inch	with inch/inch	double scale		
Order No.	Range	Depth bar	Inch graduation	Remarks
530-105	0 - 6"	Blade	1/128"	_
530-116	0 - 8"	Didue		

Measurement Applications

1. Outside measurement



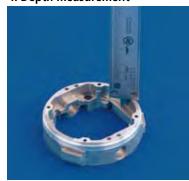
3. Step measurement



2. Inside measurement



4. Depth measurement





Calipers

An industry standard in measuring tools

Vernier Caliper 532 Series — with fine adjustment

• Fine-adjustment aids slider positioning.

• Allows step measurement.



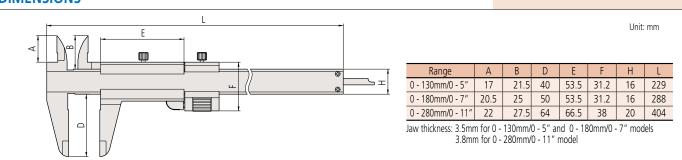
SPECIFICATIONS

Metric			
Order No.	Range	Depth bar	Remarks
532-101	0 - 130mm		
532-102 0 - 180mm		Blade	with fine adjustment
532-103	0 - 280mm		

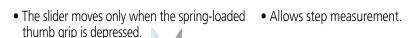
Metric/inch _	with metric/ir	nch double sc	aie
Order No.	Range	Depth bar	In

Order No.	Range	Depth bar	Inch graduation	Remarks
532-119	0 - 130mm			
532-120	0 - 180mm	Blade	.001"	with fine adjustment
532-121	0 - 280mm			

DIMENSIONS



Vernier Caliper 531 Series — with thumb clamp



Technical Data

1/128"

Technical Data

Accuracy: ±0.03mm (≤180mm), ±0.04mm (≤280mm)

Refer to the list of specifications. Accuracy: Graduation: 0.05mm, 0.05mm (1/128") or .001" (1/128")

Remarks

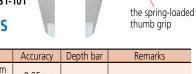
with inch/mm

conversion label

Unit: mm

High accuracy type: 0.02mm or 0.02mm (.001")





Metric	ı						
Order No.	Range	Accuracy	Depth bar	Remarks			
531-101	0 - 150mm	±0.05mm					
531-102	0 - 200mm	±0.03111111	Blade	_			
531-103	0 - 300mm	±0.08mm					
t Could all to 0.00 and							

Graduation: 0.02mm

531-128* ±0.03mm .001" High accuracy model 531-108 1/128 ±0.05mm Blade 0 - 200mm 531-129* ±0.03mm .001" High accuracy model 531-109 1/128' +0.08mm 0 - 300mm 531-112* ±0.04mm 001 High accuracy model

±0.05mm

Accuracy | Depth bar | Inch graduation

Order No.

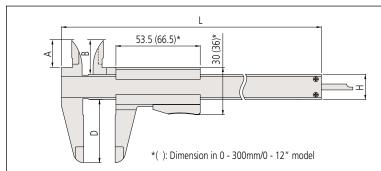
531-122

Metric/Inch with metric/inch double scale

Range

0 - 150mm

DIMENSIONS



Range	А	В	D	Н	L
0 - 150mm/0 - 6"	17	21.5	40	16	229
0 - 200mm/0 - 8"	20.5	25	50	16	288
0 - 300mm/0 - 12"	22	27.5	64	20	404

Jaw thickness: 3.5mm for 0 - 150mm/0 - 6" and 0 - 200mm/0 - 8" models 3.8mm for 0 - 300mm/0 - 12" model



^{*} Graduation: 0.02mm

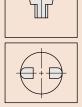
Vernier Caliper SERIES 160 — with Nib Style Jaws and Fine Adjustment

- Inside and outside measurements can be read directly from the upper and lower vernier scales.
- The jaws have radiused measuring faces for accurate inside diameter (ID) measurement.
- With fine adjustment (except for 160-130/131/132/133/134).



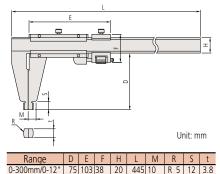






Radiused jaws for accurate ID measurement

DIMENSIONS



Range	D	E	F	Ι	L	М	R	S	t
0-300mm/0-12"	75	103	38	20	445	10	R 5	12	3.8
0-450mm*	100	89	_	25	630	14.8	R10	18	6
0-450mm/0-18"	100		51	23	030	14.0	R10	10	6
0-600mm*	100	89	_	25	700	14.8	R10	18	6
0-600mm/0-24"	100	112	51	23	700	14.0	R10	10	6
0-1000mm*	140	111	_	32	1240	17	R10	24	8
0-1000mm/0-40"	140	150	62.5	32	1240	17	R10	24	8
0-1500mm*	180	100 129	_	32	1800	10	R10	30	8
0-1500mm/0-60"	100	170	62.5	32	1000	15	R10	30	8
0-2000mm*	180	129	_	40	2300	าว	R10	30	12
0-2000mm/0-80"	100	180	78	40	2300	23	R10	30	12
*: without fine adjustment									

160-131



SPECIFICATIONS

Metric	with inside measurem	ent vernier scale	2	
Order No.	Range*	Accuracy	Graduations	Remarks
160-130	0 (20.1) - 450mm	±0.10mm		
160-131	0 (20.1) - 600mm	±0.10111111	0.05mm	
160-132	0 (20.1) - 1000mm	±0.15mm		without fine adjustment
160-133	0 (20.1) - 1500mm	±0.22mm ±0.28mm		
160-134	0 (20.1) - 2000mm			

* (): Minimum dimension in ID measurement

Metric	with inside measureme	ent vernier scale		
Order No.	Range*	Accuracy	Graduations	Remarks
160-127	0 (10.1) - 300mm	±0.04mm		
160-128	0 (20.1) - 450mm	±0.05mm		
160-101	0 (20.1) - 600mm	±0.05mm	0.02mm	with fine adjustment
160-104	0 (20.1) - 1000mm	±0.07mm	0.0211111	with fine adjustment
160-110	0 (20.1) - 1500mm	±0.1mm		
160-113	0 (20.1) - 2000mm	±0.12mm		

* (): Minimum dimension in ID measurement

Metric/Inch	with metric/inch doubl	e scale			
Order No.	Range*	Accuracy	Graduations	Remarks	
160-150	0 (10.1) - 300mm	±0.04mm		+10mm/.394" to reading in inside measurement	
160-151	0 (20.1) - 450mm	±0.05mm			
160-153	0 (20.1) - 600mm	±0.05mm	0.02mm/.001"		
160-155	0 (20.1) - 1000mm	±0.07mm	0.0211111/.001	+20mm/.787" to reading in inside measurement	
160-157	0 (20.1) - 1500mm	±0.1mm			
160-159	0 (20.1) - 2000mm	±0.12mm			

* (): Minimum dimension in ID measurement

Inch with inside measurement vernier scale						
Order No.	Range*	Accuracy	Graduations	Remarks		
160-124	0 (.304") - 12"	±.0015"				
160-116	0 (.504") - 18"	±.002" ±.003" ±.004" ±.005"	001"	_		
160-102	0 (.504") - 24"					
160-105	0 (1.004") - 40"					
160-111	0 (1.004") - 60"					
160-114	0 (1.004") - 80"					

 $\mbox{\ensuremath{^{\star}}}$ (): Minimum dimension in ID measurement

Inch/Metric	with inch/metric doul	ole scale		
Order No.	Range*	Accuracy	Graduations	Remarks
160-125	0 (.304") - 12"	±.0015"		+.3"/7.62mm to reading in inside measurement
160-119	0 (.504") - 18"	±.002"	.001"/0.02mm	+.5"/12.7mm to reading in inside measurement
160-103	0 (.504") - 24"	±.002"		+.5 /12./IIIII to reading in hiside measurement
160-106	0 (1.004") - 40"	±.003"		
160-112	0 (1.004") - 60"	±.004"		+1"/25.4mm to reading in inside measurement
160-115	0 (1.004") - 80"	±.005"		

 $[\]mbox{\ensuremath{\star}}$ (): Minimum dimension in ID measurement



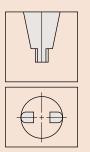
Calipers

An industry standard in measuring tools

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.





Round jaws for accurate ID measurement

SPECIFICATIONS

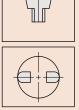
Metric with inside measurement vernier scale					
Order No.	Range*	Accuracy	Graduation	Remarks	
534-109	0 (10.1) - 300mm	±0.07mm	0.05mm	without fine adjustment	
534-110	0 (20.1) - 500mm	±0.13mm	0.0511111	without fine adjustifient	

^{* ():} Minimum dimension in inside measurement

	Metric/Inch	with metric/inch double scale				
	Order No.	Range*	Accuracy	Graduation	Remarks	
	534-101	0 (10.1) - 300mm	±0.07mm	0.05mm/ 1/128"	+10mm/.394" to reading in inside measurement	
	534-105	0 (10.1) - 300mm	±0.04mm	0.02mm/.001"	without fine adjustment	
	534-102	0 (20.1) - 500mm	±0.13mm	0.05mm/ 1/128"		
	534-106		±0.06mm	0.02mm/.001"		
	534-103	0 (20.1) - 750mm	±0.16mm	0.05mm/ 1/128"	+20mm/.787" to reading in inside measurement	
	534-107		±0.08mm	0.02mm/.001"	without fine adjustment	
	534-104	0 (20.1) - 1000mm	±0.20mm	0.05mm/ 1/128"		
	534-108		±0.10mm	0.02mm/.001"		
_	JJ4-100		±0.10111111	0.0211111/.001		

^{* ():} Minimum dimension in inside measurement





Radiused jaws for accurate ID measurement

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.



SPECIFICATIONS

Metric with inside measurement vernier scale						
Order No.	Range*	Accuracy	Graduation	Remarks		
534-113	0 (10.1) - 300mm	±0.04mm				
534-114	0 (20.1) - 500mm	±0.06mm	0.02mm	with fine adjustment		
534-115	0 (20.1) - 750mm	±0.08mm		with fine adjustifierit		
534-116	0 (20.1) - 1000mm	±0.10mm				

^{* ():} Minimum dimension in inside measurement

Inch with inside measurement vernier scale					
Order No.	Range*	Accuracy	Graduation	Remarks	
534-117	0 (.304") - 12"	±.002"			
534-118	0 (.804") - 20"	±.003"	.001″	with fine adjustment	
534-119	0 (.804") - 30"	±.004"			
534-120	0 (.804") - 40"				

^{* ():} Minimum dimension in inside measurement

DIMENSIONS

