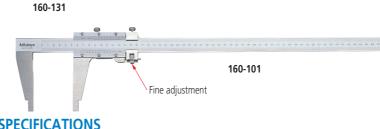
Vernier Caliper SERIES 160 — with Nib Style Jaws and Fine Adjustment

- 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).





SPECIFICATIONS

Metric with inside measurement vernier scale						
Order No.	Range*	Accuracy	Graduations	Remarks		
160-130	0 (20.1) - 450mm	±0.10mm				
160-131	0 (20.1) - 600mm	±0.1011111				
160-132	0 (20.1) - 1000mm	±0.15mm	0.05mm	without fine adjustment		
160-133	0 (20.1) - 1500mm	±0.22mm				
160-134	0 (20.1) - 2000mm	±0.28mm				

* (): Minimum dimension in ID measurement

Metric with inside measurement 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	0.02111111	with line adjustment		
160-110	0 (20.1) - 1500mm	±0.1mm				
160-113	0 (20.1) - 2000mm	±0.12mm				

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

Metric/Inch	Metric/Inch with metric/inch double 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	0.02mm/.001"	+20mm/.787" to reading in inside measurement			
160-153		0 (20.1) - 600mm	±0.05mm					
160-155		0 (20.1) - 1000mm	±0.07mm					
160-157		0 (20.1) - 1500mm	±0.1mm					
160-159		0 (20.1) - 2000mm	±0.12mm					

* (): Minimum dimension in ID measurement

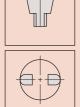
Inch	Inch with inside measurement vernier scale							
Order No.	Range*	Accuracy	Graduations	Remarks				
160-124	0 (.304") - 12"	±.0015"						
160-116	0 (.504") - 18"	±.002"						
160-102	0 (.504") - 24"	±.002	.001"					
160-105	0 (1.004") - 40"	±.003"	.001	_				
160-111	0 (1.004") - 60"	±.004" ±.005"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

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

Inch/Metric with inch/metric double 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 histor 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"					

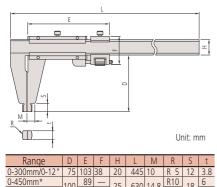
^{* ():} Minimum dimension in ID measurement





Radiused jaws for accurate ID measurement

DIMENSIONS



Harryc	U			- 11		171	17	,	L
0-300mm/0-12"	75	103	38	20	445	10	R 5	12	3.8
0-450mm*	100	89	_	25	620	14.8	R10	18	6
0-450mm/0-18"	100	112	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	129	_	32	1800	10	R10	30	8
0-1500mm/0-60"	100	170	62.5	32	1000	13	R10		8
0-2000mm*	180	129	_	40	2300	22	R10	30	12
0-2000mm/0-80"	100	180	78	40	2300	23	R10	30	12
s 50 s 60 s									

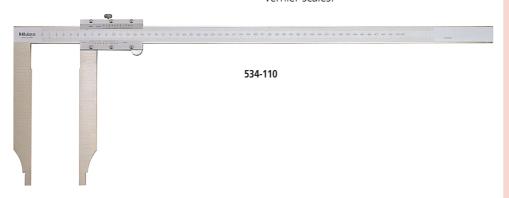
*: without fine adjustment

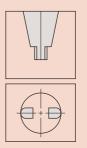
Calipers

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

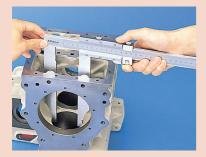
Metric	, with inside measurement vernier scale						
Order No.	Range*	Accuracy	Graduation	Remarks			
534-109	0 (10.1) - 300mm	±0.07mm	0.05mm	without fine adjustment			
534-110	0 (20.1) - 500mm	±0.13mm	0.0311111	without fine adjustment			

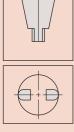
^{* ():} Minimum dimension in inside measurement

N	letric/Inch	with metric/inch doub	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) - 300111111	±0.04mm	0.02mm/.001"	without fine adjustment				
	534-102	0 (20.1) - 500mm	±0.13mm	0.05mm/ 1/128"					
	534-106	0 (20.1) - 300111111	±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 (20.1) - 750111111	±0.08mm	0.02mm/.001"	without fine adjustment				
	534-104	0 (20.1) - 1000mm	±0.20mm	0.05mm/ 1/128"					
	534-108	0 (20.1) - 1000111111	±0.10mm	0.02mm/.001"					
	\								

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

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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	0.0211111	with the adjustifient			
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

