Vernier Calipers

Thumb Lock Style

Hardened stainless steel body
Satin chrome finish
Thumb Lock
Depth Rod
Four-way measurement:
Outside
Inside
Step
Depth
Raised sliding surface to prevent wear to scale

Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
51-101-006	Thumb Lock Style Caliper 150mm / 6”	303	92	20	250

Code	Range	Metric Grads	Inch Grads	Accuracy Ext. Jaws	Accuracy Int. Jaws & Depth Rod	External Jaw Length	Internal Jaw Length
51-101-006	150mm / 6”	0.02mm	0.001”	±0.02mm	±0.04mm	40mm	18mm

Fine Adjustment Style

Hardened stainless steel body
Satin chrome finish
Fine adjustment all models except 51-100-004
Depth Rod
Four-way measurement:
Outside
Inside
Step
Depth
Raised sliding surface to prevent wear to scale

Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
51-100-004	Vernier Caliper 100mm / 4”	162	65	23	179
51-100-006	Fine Adjustment Caliper 145mm / 5 1/2”	316	90	23	245
51-100-008	Fine Adjustment Caliper 200mm / 8”	448	110	25	310
51-100-012	Fine Adjustment Caliper 300mm / 12”	744	135	25	438

Code	Range	Metric Grads	Inch Grads	Accuracy Ext. Jaws	Accuracy Int. Jaws & Depth Rod	External Jaw Length	Internal Jaw Length
51-100-004	100mm / 4”	0.02mm	0.001”	±0.02mm	±0.04mm	30mm	18mm
51-100-006	145mm/5 ½”	0.02mm	0.001”	±0.02mm	±0.04mm	40mm	18mm
51-100-008	200mm/8”	0.02mm	0.001”	±0.03mm	±0.06mm	48mm	20mm
51-100-012	300mm/12”	0.02mm	0.001”	±0.04mm	±0.08mm	63mm	20mm

Vernier Calipers

Master Vernier Calipers

Hardened stainless steel body
Satin chrome finish
Micro-fine graduations, machine divided and engraved
Fine adjustment
Raised sliding surface to prevent wear to scale
External jaws have radiused tips for internal measurement (see specification below for Minimum measuring diameter and Jaw length)

Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
51-110-012	Master Vernier Caliper 300mm / 12”	701	150	22	445
51-110-024	Master Vernier Caliper 600mm / 24”	2134	195	35	821
51-110-040	Master Vernier Caliper 1000mm / 40”	5595	240	42	1280

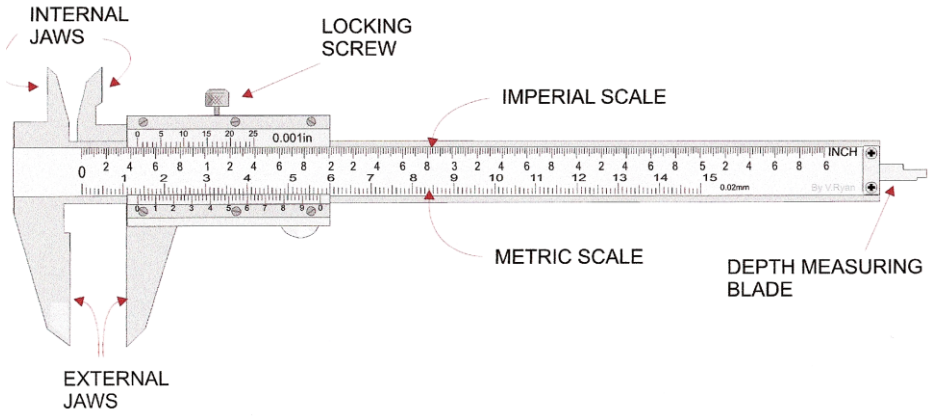
Code	Range	Metric Grads	Inch Grads	Accuracy Ext. Jaws	Accuracy Int. Jaws	External Jaw Length	Internal Jaw Length	Internal Min. Dia.
51-110-012	300mm/12”	0.02mm	0.001”	±0.04mm	±0.08mm	75mm	10mm	10mm
51-110-024	600mm/24”	0.02mm	0.001”	±0.06mm	±0.12mm	100mm	12mm	10mm
51-110-040	1000mm/40”	0.02mm	0.001”	±0.07mm	±0.14mm	150mm	18mm	20mm

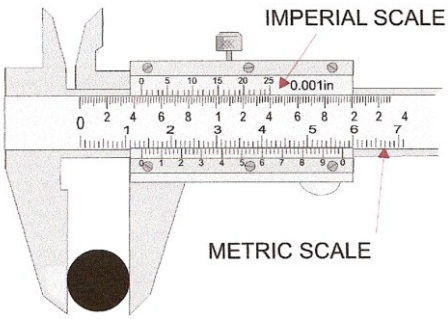
Vernier Calipers

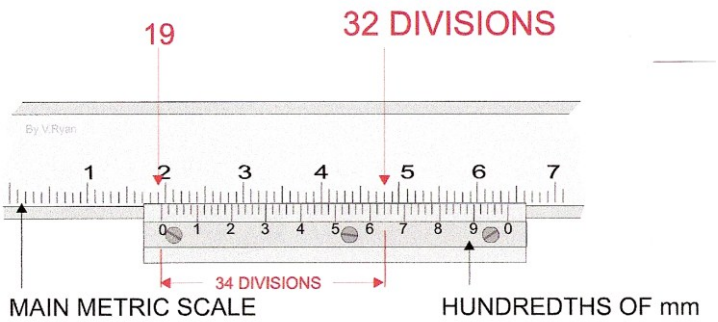
A Brief History

The Vernier Caliper is an instrument for making very accurate linear measurements.
The instrument was first introduced in 1631 by Pierre Vernier of France
It utilises two graduated scales:
The main scale which is similar to that on a rule plus a specially graduated sliding scale (called the Vernier scale)
The Vernier scale slides parallel to the main scale and enables readings to be made to a fraction of a division on the main scale.

Reading a Vernier

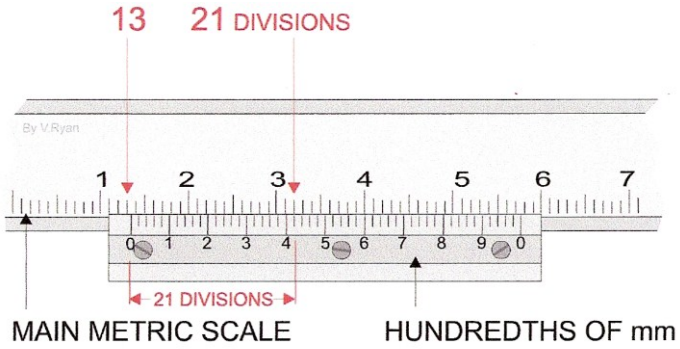






Example 1:

19 + 32 x 0.02
19 + 0.64
19.64 = Correct reading



Example 2:

13 + 21 x 0.02
13 + 0.42
13.42 = Correct reading