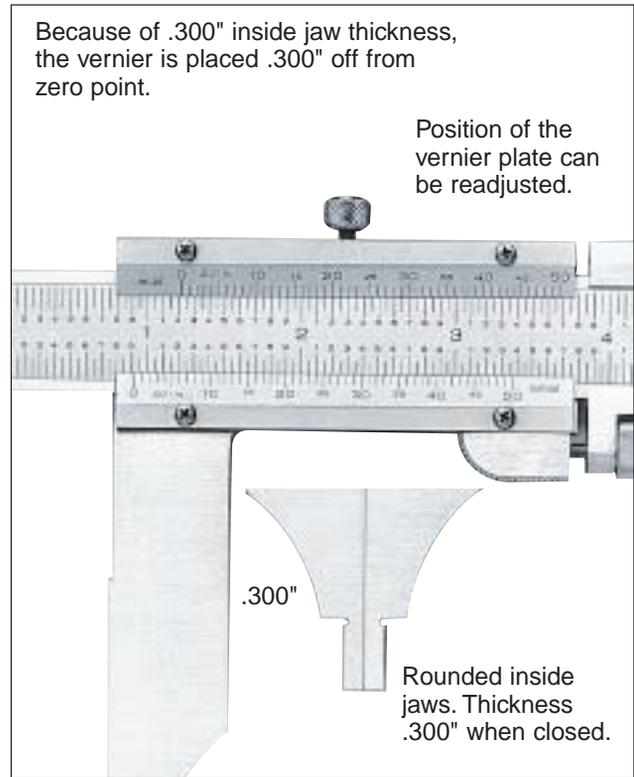
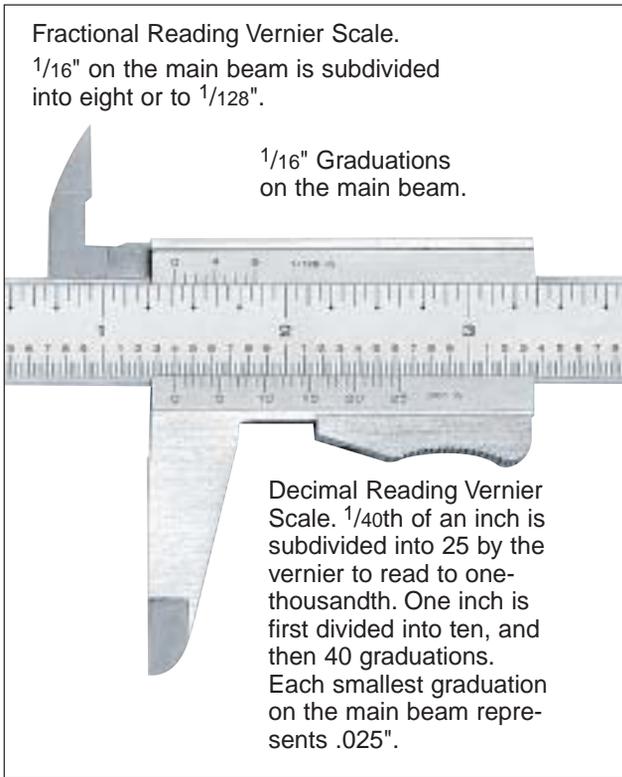


How to Read Vernier Calipers



Inch Fractional and Decimal Readings

This vernier caliper has two scales which enable readings to a fraction of an inch as in the case of $1/128"$ graduated vernier (upper scale), or in decimals as in the case of $1/1000"$ graduated vernier (lower scale).

Each division on the fractional main scale represents $1/16$ th of an inch. The vernier further subdivides each division on the main scale to read $1/128$ of an inch.

Each division of the decimal main scale represents one fortieth of an inch or $.025"$. Each fourth line marked by 1 represents $.100"$, the line marked 2 represents $.200"$, and so forth. The vernier consists of 25 equal divisions which further subdivides each division on the main scale to $.001"$.

- $1/128"$ graduated vernier (upper scale)

Readings on the main scale.....	$16/16"$
Vernier scale reading.....	$3/128"$
Final reading.....	$16/16 + 3/128 = 151/128"$
- $1/1000"$ graduated vernier (lower scale)

Main scale reading.....	$1.375"$
Vernier scale reading.....	$.023"$
Final reading.....	$1.398"$

Inch Decimal Reading Only (for Inside and Outside Jaws)

The vernier reads inside and outside dimensions with the same jaws. Inside measurements are taken by the specially designed jaw construction. Because of the $.300"$ inside jaw thickness, the vernier is placed $.300"$ off from zero point. Taking this difference into account, the final inside reading is $.300"$ greater than the outside reading.

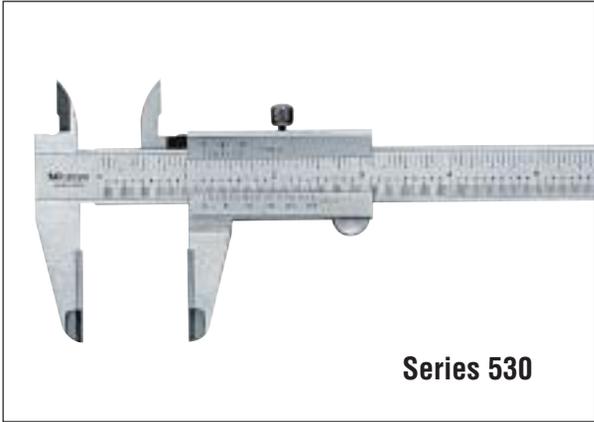
Like the Vernier Caliper in the preceding column, the vernier above also reads to $1/1000$ of an inch. In this case, however, each division on the main scale represents one-twentieth of an inch or $.050"$. This means each division on the main scale is twice as wide as the previous example, and therefore, the vernier must span twice the length to read to $1/1000$ of an inch.

- Inside vernier reading (upper scale)

Reading on the main scale.....	$1.200"$
Vernier line coinciding with main scale line.....	$.018"$
Final reading.....	$1.218"$
- Outside vernier reading (lower scale)

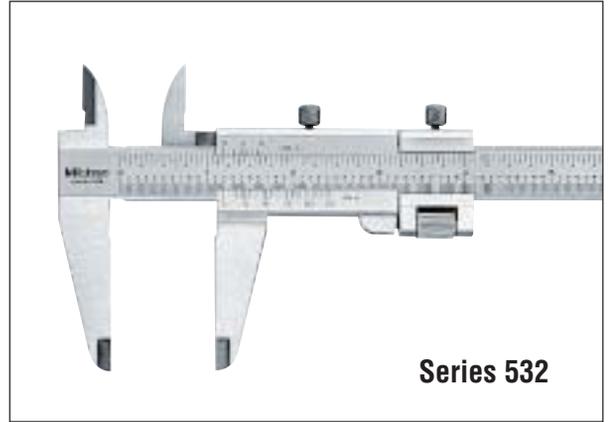
Reading on the main scale.....	$.900"$
Vernier line coinciding with main scale line.....	$.018"$
Final reading.....	$.918"$

CALIPERS



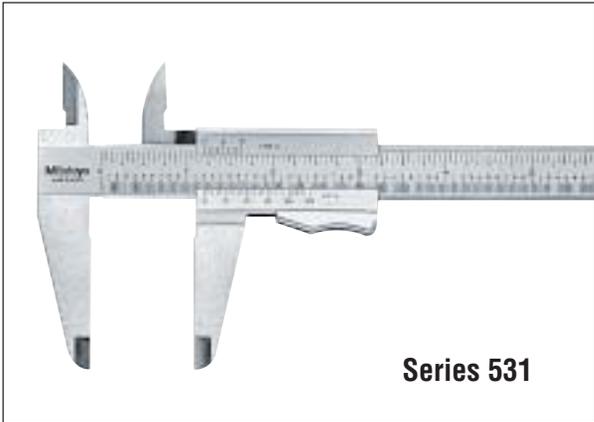
Series 530

Plain and Basic vernier caliper with locking screw atop the moving slider.



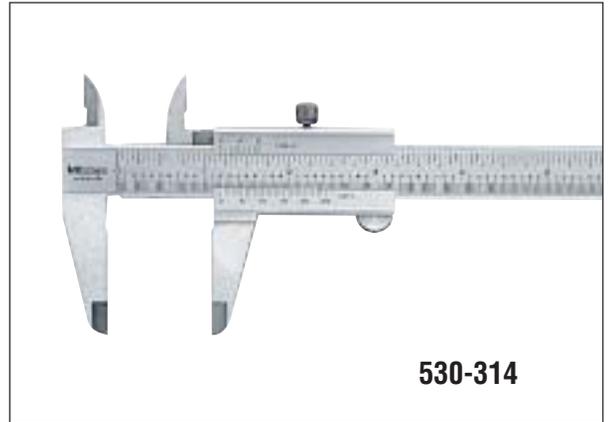
Series 532

With fine-adjustment for precise measurement.



Series 531

The jaws move only when spring loaded thumb clamp is depressed.



530-314

Outside jaws are carbide faced for measurements of abrasive products.