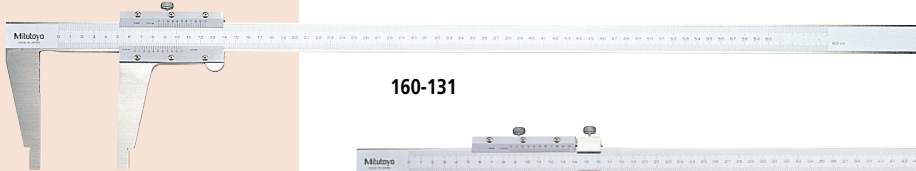


## Vernier Caliper SERIES 160 — with Nib Style Jaws and Fine Adjustment

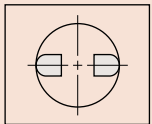
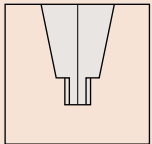
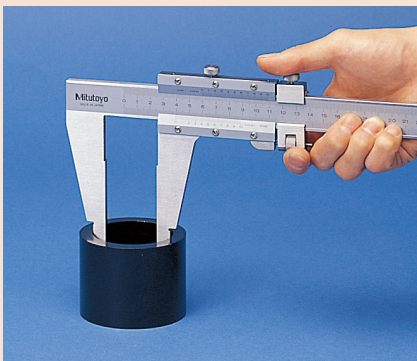
- Inside and outside measurements can be read directly from the upper and lower vernier scales.
- The jaws have radiused measuring faces for accurate inside diameter (ID) measurement.
- With fine adjustment (except for 160-130/131/132/133/134).



160-131

160-101

Fine adjustment



Radiused jaws for accurate ID measurement

### SPECIFICATIONS

**Metric** \_\_\_\_\_ with inside measurement vernier scale

| Order No. | Range*            | Accuracy | Graduations | Remarks                 |
|-----------|-------------------|----------|-------------|-------------------------|
| 160-130   | 0 (20.1) - 450mm  | ±0.10mm  | 0.05mm      | without fine adjustment |
| 160-131   | 0 (20.1) - 600mm  |          |             |                         |
| 160-132   | 0 (20.1) - 1000mm |          |             |                         |
| 160-133   | 0 (20.1) - 1500mm |          |             |                         |
| 160-134   | 0 (20.1) - 2000mm |          |             |                         |

\* ( ) : 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  | 0.02mm      | with fine adjustment |
| 160-128   | 0 (20.1) - 450mm  | ±0.05mm  |             |                      |
| 160-101   | 0 (20.1) - 600mm  | ±0.05mm  |             |                      |
| 160-104   | 0 (20.1) - 1000mm | ±0.07mm  |             |                      |
| 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 double scale

| Order No. | Range*            | Accuracy | Graduations  | Remarks                                      |
|-----------|-------------------|----------|--------------|--|
| 160-150   | 0 (10.1) - 300mm  | ±0.04mm  | 0.02mm/.001" | +10mm/.394" to reading in inside measurement |
| 160-151   | 0 (20.1) - 450mm  | ±0.05mm  |              | +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** \_\_\_\_\_ with inside measurement vernier scale

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

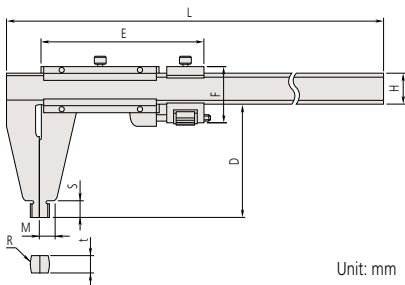
\* ( ) : Minimum dimension in ID measurement

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

| Order No. | Range*           | Accuracy | Graduations  | Remarks                                     |
|-----------|------------------|----------|--------------|---|
| 160-125   | 0 (.304") - 12"  | ±.0015"  | .001"/0.02mm | +3"/7.62mm to reading in inside measurement |
| 160-119   | 0 (.504") - 18"  | ±.002"   |              | +1"/25.4mm to reading in inside measurement |
| 160-103   | 0 (.504") - 24"  | ±.002"   |              |   |
| 160-106   | 0 (1.004") - 40" | ±.003"   |              |   |
| 160-112   | 0 (1.004") - 60" | ±.004"   |              |   |
| 160-115   | 0 (1.004") - 80" | ±.005"   |              |   |

\* ( ) : Minimum dimension in ID measurement

### DIMENSIONS



Unit: mm

| Range          | D   | E   | F    | H  | L    | M    | 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 | 112 | 51   | —  | —    | —    | R10 | 18 | 6   |
| 0-600mm*       | 100 | 89  | —    | 25 | 780  | 14.8 | R10 | 18 | 6   |
| 0-600mm/0-24"  | 100 | 112 | 51   | —  | —    | —    | R10 | 18 | 6   |
| 0-1000mm*      | 140 | 111 | —    | 32 | 1240 | 17   | R10 | 24 | 8   |
| 0-1000mm/0-40" | 140 | 150 | 62.5 | —  | —    | —    | R10 | 24 | 8   |
| 0-1500mm*      | 180 | 129 | —    | 32 | 1800 | 19   | R10 | 30 | 8   |
| 0-1500mm/0-60" | 180 | 170 | 62.5 | —  | —    | —    | R10 | 30 | 8   |
| 0-2000mm*      | 180 | 129 | —    | 40 | 2300 | 23   | R10 | 30 | 12  |
| 0-2000mm/0-80" | 180 | 180 | 78   | —  | —    | —    | R10 | 30 | 12  |

\*: without fine adjustment