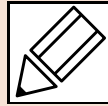


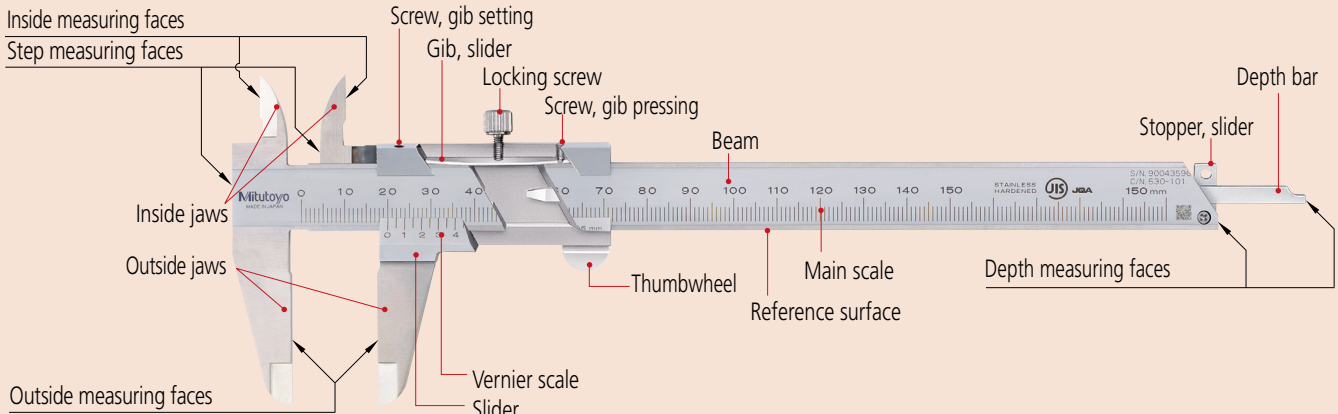
# Quick Guide to Precision Measuring Instruments



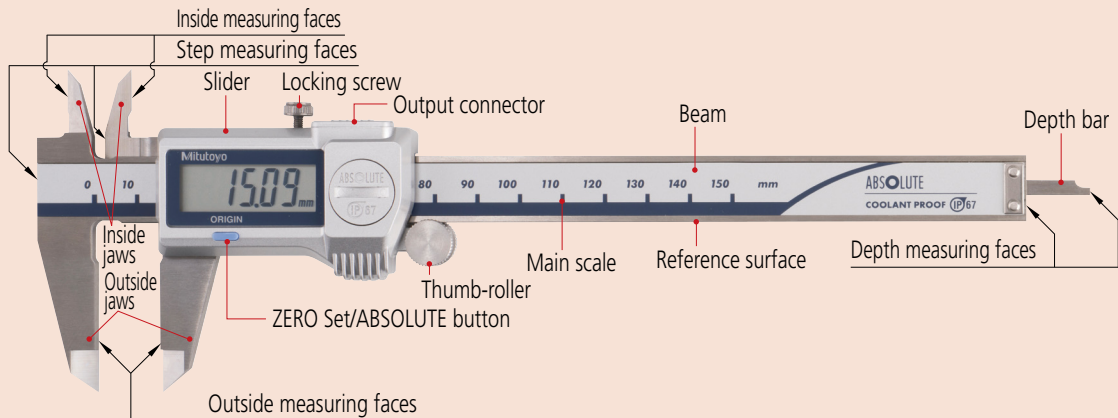
## Calipers

### Nomenclature

#### Vernier Caliper

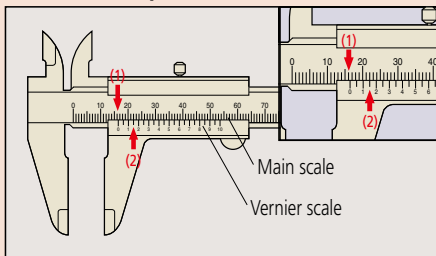


#### Absolute Digimatic Caliper



### How to Read the Scale

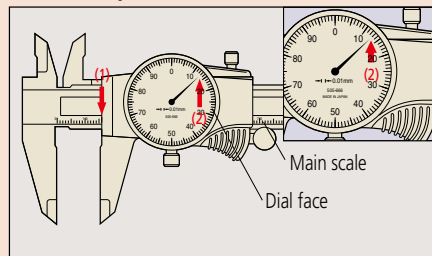
#### Vernier Calipers



**Graduation 0.05 mm**

(1) Main scale	16	mm
(2) Vernier	0.15	mm
Reading	16.15	mm

#### Dial Calipers



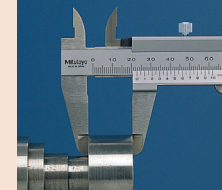
**Graduation 0.01 mm**

(1) Main scale	16	mm
(2) Dial face	0.13	mm
Reading	16.13	mm

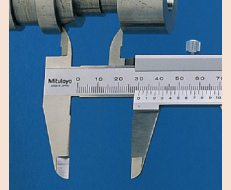
Note) Above left, 0.15 mm (2) is read at the position where a main scale graduation line corresponds with a vernier graduation line.

### Measurement examples

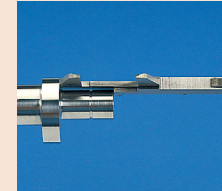
#### 1. Outside measurement



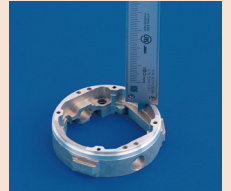
#### 2. Inside measurement



#### 3. Step measurement

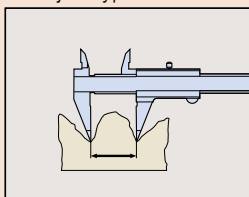


#### 4. Depth measurement



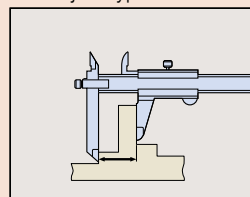
### Special Purpose Caliper Applications

#### Point jaw type



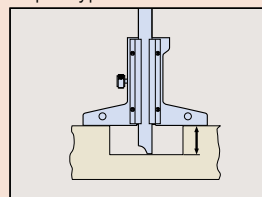
For uneven surface measurement

#### Offset jaw type



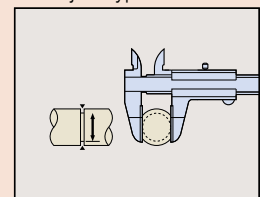
For stepped feature measurement

#### Depth type



For depth measurement

#### Blade jaw type



For diameter of narrow groove measurement