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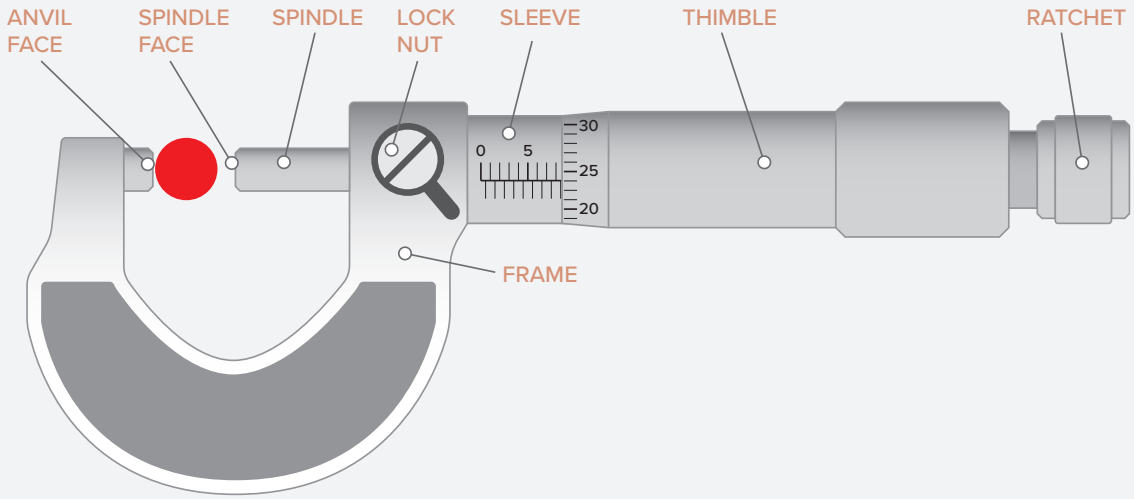
Precision Engineering & Cold Forming

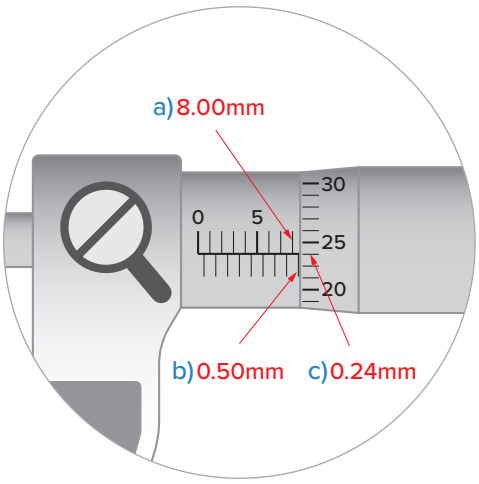
HOW TO USE A MICROMETER

A micrometer is an essential precision measurement instrument, used by engineers to measure small distances. It uses the principle of a screw to amplify small distances (that are too small to measure directly) into large rotations of the screw that are big enough to be quickly and easily read from a scale.



TO TAKE A READING

1. Place the object to be measured between the anvil face and the spindle face.
2. Turn the ratchet clockwise until the object is secured and makes a 'clicking' noise. This means the ratchet can't be tightened any more and the measurement can be taken.
3. Read the scale on the top of the sleeve (a). The example clearly shows 8.00mm divisions.
4. Read the scale on the bottom half of the sleeve (b). A further 0.5mm measurement can be seen in the example. Therefore, the measurement is 8.50mm.
5. Check the reading on the thimble (c). In the example this is 0.24mm
6. Add the two figures from the scale and the one from the thimble together for the total measurement. The total in the example is 8.74mm



8.00mm + 0.50mm + 0.24mm = 8.74mm

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