

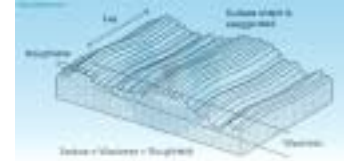


## Quality Control Workshop

# Surface texture measurement

### Objective

To perform measurement functions on surface texture of a part.



### Activities

You are provided with a part with a surface texture of unknown roughness. In this lab, you will measure this feature using two different methods, and compare the accuracy of the results.

#### 1. **Surface-roughness reference specimens** – Sensory comparison type measurement

It is a direct method of perception by mean of visual sensing by eye and tactual sensing with fingernail. A typical surface-roughness specimen is used for visual and tactile comparison with surfaces under inspection. On the specimens, various degrees of roughness are shown, originating from different machining processes, each producing a distinctive pattern.



Fig 1. Surface-roughness reference specimens.

#### 2. **Stylus type surface roughness measuring instrument** – Use the surface roughness tester together with calibration blocks specimen on a surface plate to measure surface texture. Record results.

