Dial Height Gauge

A **dial height gauge is** used in metalworking and precision machining to measure vertical distances from a reference surface—typically a **surface plate**, which is the large, heavy, flat round metal plate it's standing on in the photo.

Primary purposes of the dial height gauge:

1. **Measuring Height**: It measures the height of objects or features with high accuracy.
2. **Scribing lines**: When fitted with a scribe or scriber instead of a dial probe, it can mark precise horizontal lines on a workpiece.
3. **Comparative Measurement**: It can compare the height of different parts or features to ensure uniformity.
4. **Precision Layout Work**: Common in tool and die making, it helps in laying out precision measurements on metal surfaces.

The dial indicator on it allows for highly accurate readings and can detect very small differences in height.

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