

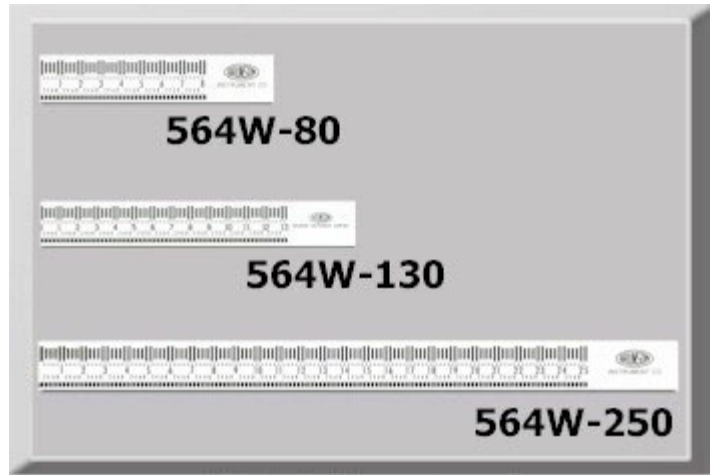


564W Metric Optical Tooling Scales

The last word in alignment accuracy

These scales are used with our optical instruments to measure the precise distance of any object from the line of sight. Then, since the line of sight is very straight, alignments between different objects (such as machine components, foundations, rollers, etc.) are quantifiable.

Our scales have optical targets evenly spaced every 2 mm. The optical micrometer on an instrument works like a vernier, displacing the line of sight laterally. Using this displacement, the reticle is "brought into register" with the nearest target on the scale, and the precise displacement is read directly from the graduated micrometer drum. By adding or subtracting the micrometer's reading from the scale position, a precise measurement is made. To learn more about how to measure using scales and micrometers, look at the Learning Center on our website.



More information is also available on our website regarding the patterns, features, and targeting characteristics that we use - see "About Our Scales".



All of our metric scales are graduated throughout their stated length (see image at left). Each scale is shipped in a vinyl sheath.

A number of accessories are available for use with our scales (listed at the bottom of this page). These include magnetic holders, levels, and special adapters. Also included is our line of Invar extension tubing, available in many different configurations to suit your measurement needs.

The table below gives you the model numbers and lengths of our standard metric scales.

Model	Length
564W-80	80 mm
564W-130	130 mm
564W-250	250 mm
564W-500	500 mm
6040M	1000 mm

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Specifications

Material: Hardened tool steel

Major divisions: 1 cm

Finish: Matte white background, black graduations and numbers, non-glare topcoat

Minor divisions: 0.2 cm

Target spacings:

0.13mm, 0.25mm, 0.60mm, 1mm

Accuracy: $\pm 0.025\text{mm}$

Width: 25.4mm (1000 mm scale is 38.1 mm wide)

May be used with...

- 562-A Magnetic scale holder
- 562-41 Magnetic scale holder (for use with 40" scale only)
- 562-VA Vee block
- 563, 563-40 Scale levels
- 15-002 Roll rider
- 803-x Invar scale extension kits