



Western Instruments

Established 1965

The Reference Gauge® (N88-12)

The Reference Gauge® was originally designed to measure Reference Indications (Holes or Notches) which are machined into *Calibration Standards* for various types of Non-Destructive Testing Equipment such as Ultrasonics, Eddy Current, Flux Leakage, etc. These Calibration Standards tend to be very accurate in diameter and straightness, so the Reference Gauge® easily measures the depth of these indications

The Reference Gauge® is similar to our Bridging Pit Gauge's Main Blade (N88-9B), however this Gauge's Blade is 75% wider (0.75" or 19mm), to accommodate a Reverse V Edge, and a flat reference surface.



The Reference Gauge®, as illustrated to the left is also fitted with our exclusive Magnetic Hold Down Cartridges, identical to those used on our Standard Magnetic Pit Gauges.

The large Center Cut-Away allows the Dial Indicator (Metric, Imperial, or Digital) to be positioned in the middle of the Blade. This allows the Reference Gauge to be assembled as a

Reference Bridging Pit Gauge (N88-12RB) as outline in the Bridging Pit Gauge System section of our Web Page. When assembled as a Bridging System, the Powerful Magnetic Hold Downs (N88-9-6P) can still be used in conduction with the integral Cartridge type Hold Downs. The 'Cut-Away' (Nose), immediately under the Dial indicator, is 37mm (1½") from the outer Edge of the Blade to where it begins to contact the surface (zero). This feature allows the inspector to measure corrosion located on the Toe of a Weld. This end Cut-Away allows the Reference Gauge to also measure immediately adjacent to Risers, Gussets, or Reinforcing Pads.



The main benefit of the Reference Gauge® is it tends to be Self Aligning on a round workpiece. When Assembled in the Bridging version, with Connector and End Blades, it is obvious when the Inverted 'V' Edge is not aligned. Like all of our Dial Indicator Pit Gauges, the Reference Gauge® is available as a Metric, Imperial, or Digital model.