

Western Instruments

www.westerninstrument.com

Established 1965

Reaching Pit Gauges



The Reaching Pit Gauge offers the equipment inspector many advantages over our Basic Pit Gauges (N88-2 or N88-3), with its Dial Indicator mounted at the end of the 152mm (6") long Blade, that features a long Cut-Away Nose.

The Reaching Pit Gauge, like all of our standard models, is supplied as a Kit (illustrated to the left). These Kits consist of; Dial Indicator (Metric, Imperial, or Digital), Reaching Blade (Standard or Magnetic), Wooden Storage Case, Allan Key(s) for adjustments, Spare #2 Contact Point, Operator Instructions, and the Calibration Certificate.

Western Instruments offers 6 different versions of its Reaching Pit Gauge, which are separated by the standard models and the magnetic models. Like all of Western's Pit Gauges, every one is available with either a Metric, Imperial, or Digital Indicator. The picture to the right illustrates all 6 models of the Reaching Magnetic Pit Gauge. The chart below lists all of the part numbers for all 6 models;

	Metric	Imperial	Digital
Standard Reaching	N88-5-M	N55-5	N88-5-D
Reaching Magnetic	N88-5M-M	N88-5M	N88-5M-D



The most significant advantage the Reaching Pit Gauge offers is its ability to span over areas of corrosion, referencing the original surface as the zero point. If a pit is *Wide, Shallow*, as defined by ASTM G46, the Blade of the Pit Gauge can reference the zero point (surface) and reach the Dial Contact Point above the entire opening of the pit. Such a pit can be 150mm (6") in diameter, if it is accessible from both sides. The inspector simply needs to maintain a reasonable contact and reference to parent material.

Another significant feature on the Reaching Pit Gauge is the Cut-Away Nose, which allows several extra capabilities. The Cut-Away Nose 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.



If the workpiece is configured with a Riser, Gusset, or Reinforcing Pad, the inspector simply rotates the Dial Indicator by 90°, re-zeros, and can measure up to 9.5mm (¾") from the obstruction. This ability is illustrated to the right with a Digital Reaching Pit Gauge (N88-5-D). How much the Dial Indicator is rotated, does not affect the operation of the Pit Gauge.

Lastly, the Reaching Pit Gauge can be used for Weld Inspection on Height and Depth parameters, such as Undercut, Weld Reinforcement, and Edge Alignment. The Reaching Pit Gauge can reach over an existing weld to confirm edge alignment and undercut.