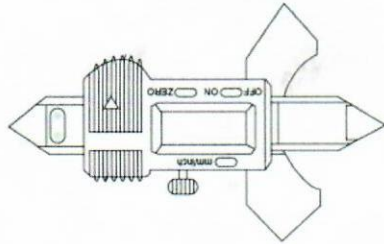


DIGITAL WELD GAUGE

USER'S MANUAL

MODEL: WG-1 WG-2



SAFETY PRECAUTION

To ensure operator safety, use this gauge in conformance with the directions and specifications given in this User's Manual.



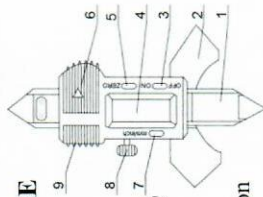
• The measuring jaws of this gauge have a sharp edge. Handle it with great care to avoid injury.

CAUTION

• Do not measure the workpiece if it is rotating. Risk of injury by being caught in the machine tool.

[1] NOMENCLATURE

1. Main beam
2. Jaw
3. On/Off Button
4. Display Screen (LCD)
5. Zero Setting Button
6. Battery Cover
7. Metric/Inch Conversion Button (mm/inch)
8. Locking Screw
9. Output port



[2] TECHNICAL SPECIFICATIONS

- Resolution: 0.01mm/0.0005"
 Range: 0-25mm, 0-0.8"
 Error: $\pm 0.03\text{mm} / \pm 0.001"$
 Operating Power: One silver oxide battery, SR44, 1.55V
 Working temperature: $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$
 Humidity: $\leq 80\%$
 Storage temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$

[3] FUNCTION

1. Zero setting at any position.
 2. Metric / Inch system conversion at any position.
 3. The digital weld gauge is equipped with an output port.
- Data can be input into a computer or a special printer via special connecting cable. The working way of the interface: Synchronous serialization.
 Data: Binary code, 24 bits. Each datum will be transferred twice. The cycle is 300ms (20ms in fact reading mode).
 Transmitting time: 0.5ms.

Four wires (from left to right): Negative Power (-), Clock Pulse CP, Data D, Positive Power (+).
 Pulse Range of Data: 0 Level $\leq 0.2\text{V}$, Level 1 $\geq 1.3\text{V}$.
 Clock Pulse CP: 90KHz, effective for high electrical level.

[4] OPERATION

Press the On/Off button to switch on the power. Press the mm/in button to set the unit system you need. Set zero on a plane to measure plane weld seam according to the picture on the right, set zero on a 90° bevel to measure 90° bevel weld seam. Then press Zero button, the LCD will display "mm0.00". Put the weld seam between two measuring faces and move the scale till measuring faces and weld seam contact gently, then the value displayed is the height of weld seam.

[5] BATTERY REPLACEMENT

1. Turn to a direction as the arrow indicators

in the picture on the right and remove the battery cover.

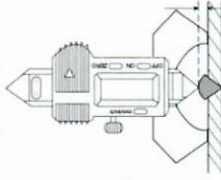
2. Put in a new battery with its positive side facing out and put on the battery cover.

[6] MAINTENANCE INSTRUCTIONS

1. The moving speed should not exceed 1.5m/s.
2. Being precision measuring instrument, it should be prevented from striking or falling to avoid losing precision when using it.
3. Keep the Digital Weld Gauge clean and dry, preventing liquid etc. going into it for fear of affecting normal operation.
4. Faces should be cleaned gently with anhydrous alcohol. Never use petrol, acetone and other organic solutions.
5. Never apply any electric pressure on any part of it and never use an electric pen for fear of damaging its chip.
6. Do not recharge, disassemble or short-circuit the battery when changing the battery.
7. Take out the battery and keep it separately

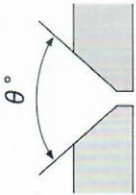
from the Digital Welding Gauge if it will stay idle for a long time.

8. Do not disassemble Weld Gauge.

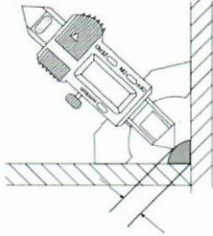


Bead Height

Maximum measurement 10mm

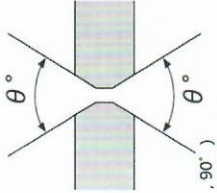


Bevel angle measurement
(Fixed angle of 60°, 70°, 80°, 90°)



Throat thickness

Maximum measurement 20mm



OPTIONAL WELD GAUGES

