

# BRANSON

## 2000 SERIES

### 2000 Series Integrated Ultrasonic Plastic Welders IW/IW+ – 1100 and 2200 Watts

#### General Description

Branson's 2000 Series Integrated Welders are self-contained ultrasonic plastics assembly systems that combine a power supply module, process controls, and welding stand in a compact bench unit to conserve work space, ease setup, simplify operation, facilitate relocation, and make service convenient. The integrated welder is the ideal "entry level" system for new users of ultrasonic technology and those with lower production requirements.

2000 Series Integrated Welders include the proven technology of the 2000 Series power supply module and converter, which set the standard in ultrasonic equipment. Available with power output of 1100 or 2200 Watts, the integrated welder Models IW and IW+ feature digital controls for accurate and repeatable setups. In addition, the IW+ models enable distance welding in either collapse or absolute modes with limits.

When using the welder, the assembly operation is characterized by simplicity, speed, and efficiency. Once the system is programmed for a particular workpiece, no further adjustments are required.

#### Key Features

- **Line / Load Regulation** - Corrects for variations due to power line fluctuations and varying load conditions through Branson's patented closed-loop amplitude control. Output amplitude is maintained with a variation of only  $\pm 2\%$  with line voltage fluctuations of  $\pm 10\%$ , regardless of load. It ensures constant power in welding, and provides greater weld consistency and reliability.
- **2000 Series 20 kHz converter** produces 20% higher output amplitude than its 900 Series predecessor for faster weld cycles; In addition, this converter is more rugged and has higher power capacity.
- **Auto Seek** automatically measures stack frequency and stores it in memory. Three selectable Auto Seek choices are available:

1. On power up, setting memory for the initial weld.
  2. Depressing "test" switch.
  3. By once/minute timer to track heating, cooling, and other effects.
- **Operating modes** - IW models feature welding in time; ultrasonics and force are applied to parts for a precise, preset time, and parts are held under force for a precise hold time; adjustable afterburst delay and duration times may be set, if required. Display of time and afterburst parameters is digital. IW+ models give choice of time or distance modes (either absolute or collapse). In absolute, the weld is terminated at a predetermined point in the stroke, measured from the top of the stroke. In collapse, the weld is terminated at a predetermined point in the stroke after the horn contacts the part and the trigger switch is activated. The position display is digital. With position modes, upper and lower limit ranges may be selected.
  - **Digital parameter entry with autoranging** when entering parameters gives precise settings for repeatable accuracy. The autoranged values enable fine resolution and setup accuracy.



## Ultrasonic Assembly Systems

### 2000 IW/IW+

- ✓ **Line Regulation**
- ✓ **Load Regulation**
- ✓ **Auto Seek with Memory**
- ✓ **High Amplitude Converter**
- ✓ **All Units CE Compliant**

#### Applied Technologies Group

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welding • staking • insertion • swaging • forming • spot welding • degating • cutting & sealing

# Branson 2000 Iw Operators Manual

**R Sandford**



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