



# Process Calibration Tools

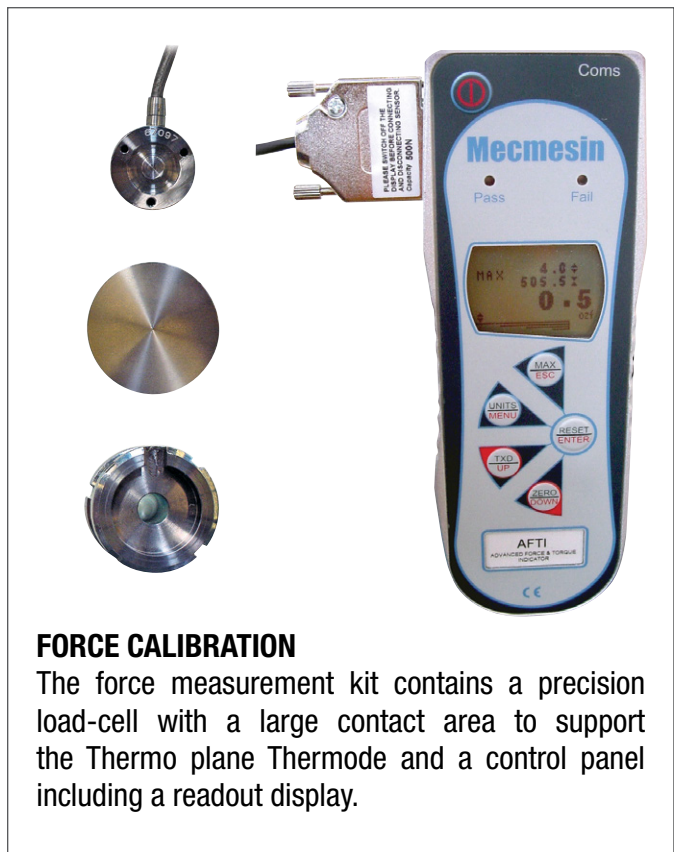
## Instruments for constant process quality

In order to achieve and maintain a consistent production environment, constant process parameters are required. For Hot Bar Reflow Soldering, Heat-Seal Bonding, Heat Staking, ACF Laminating and ACF Final Bonding, the most important process parameters are bond pressure, thermode planarity and process temperature.

AMADA WELD TECH Europe offers a complete range of process calibration tools specifically designed to monitor production and processes accurately.

### KEY FEATURES

- Regular system 'check-up' for constant process parameter quality
- Complete set of tools offering full process control
- Industrial tools for consistent production quality
- Force ranges 100 - 250 - 500 - 1000 - 2500 Newton
- Display readout with overload indicator
- Force load-cell including universal applicable contact disk
- Accuracy  $\pm 1\%$  of full scale
- Power connection 230 VAC
- Optional RS232- 422/485 serial output for data storage
- Calibration certificate included



### FORCE CALIBRATION

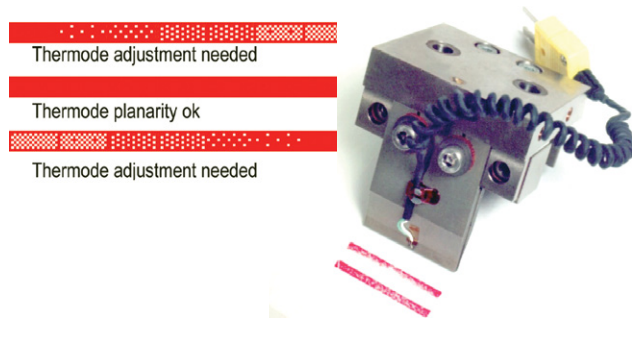
The force measurement kit contains a precision load-cell with a large contact area to support the Thermo plane Thermode and a control panel including a readout display.

### THERMODE PLANARITY CHECK

Pressure sensitive paper is a valuable tool to optimize the planarity of the thermode when mounted to the thermode block.

The paper is positioned between the thermode and a support, and force is applied. The print left on the paper from the thermode face allows you to determine coplanarity of the thermode and if any adjustments are needed.

- Force ranges: 11-55 lb/cm<sup>2</sup>, 55-100 lb/cm<sup>2</sup>, 4.5-13 lb/cm<sup>2</sup>
- Accurate pressure paper with highly sensitive printout.
- Immediate visible results
- Easy to handle paper format (A4 size).



### TEMPERATURE CALIBRATION

This easy-to-use handheld temperature meter can be utilized in combination with ultra flat thermocouples. The thermocouple can be sandwiched between the parts, and the actual process temperature can be measured inside the connection. The thermocouple is reusable.

- Low cost, high resolution
- Measures and records up to eight thermocouples at once
- 20-bit resolution and high accuracy
- Supports all commonly used thermocouple types
- Measures from -270 °C to +1820 °C
- Built-in cold junction compensation
- Up to 10 measurements per second
- USB-connected and powered
- Supplied with data logging software
- Compatible with Windows, Linux and macOS



### ORDERING INFORMATION

67W0024	Force calibration tool max. 1 00 N	Load cell and digital readout unit, special for lowest forces
67W0000	Force calibration tool max. 250 N	Load cell and digital readout unit, special for lowest forces
67W0001	Force calibration tool max. 500 N	Load cell and digital readout unit, suitable for SH-500A and PH-500A heads
67W0002	Force calibration tool max. 1000 N	Load cell and digital readout unit, suitable for SH-500A and PH-500A heads
67W0039	Force calibration tool max. 2500 N	Load cell and digital readout unit, suitable for SH-1250A and PH-1250A heads
67W0023	Thermode pressure paper A4 format, 1 piece	Pressure paper for accurate thermode planarity check, including user manual Force range 11-55 lb/cm <sup>2</sup>
67W0003	Thermode pressure paper A4 format, 1 piece	Pressure paper for accurate thermode planarity check, including user manual Force range 55-100 lb/cm <sup>2</sup>
67W0037	Thermode pressure paper A4 format, 1 piece	Pressure paper for accurate thermode planarity check, including user manual Force range 4.5-13 lb/cm <sup>2</sup>
67W0055	Digital temperature measuring tool	Used with 67W0007
67W0007	Ultra flat thermocouple	Ultraflat thermocouple for accurate temperature measurements



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