



Process Calibration Tools

Instruments for constant process quality

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
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- 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

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 Miyachi Europe equipment consists of reliable and stable components built to last. In order to ensure smooth operation within specifications and to monitor regular wear and tear over time it is vitally important to control process parameters constantly or selectively. Amada Miyachi Europe offers a complete range of process calibration tools specially designed to monitor production and processes accurately.

FORCE CALIBRATION

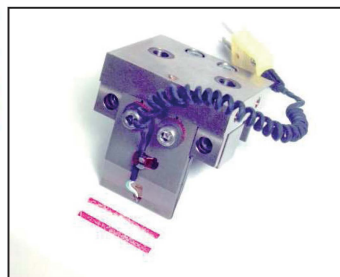
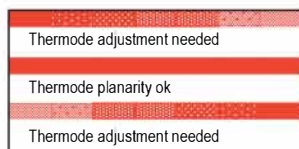
The Amada Miyachi Europe force measurement kit contains a precision load-cell with a large contact area to support the Thermo-plane Thermode and a control panel including a readout display.



THERMODE PLANARITY CHECK

The Amada Miyachi Europe pressure sensitive paper is specially designed to optimise the planarity of the Thermo-plane Thermode in combination with your product. Putting it in between thermode and product support will result in an accurate readout of planarity.

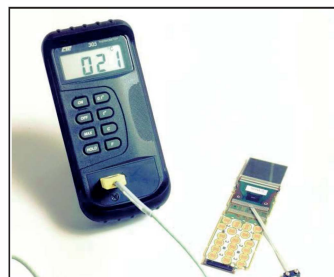
- Force ranges: 5-25 kg/cm², 25-100 kg/cm², 2-6 kg/cm²
- Accurate pressure paper with highly sensitive printout.
- Immediate visible results
- Easy to handle paper format (A4 size).



TEMPERATURE CALIBRATION

Knowing and understanding the temperature during all the different Hot Bar processes inside the materials is essential for optimal results. This easy to use handheld temperature meter can be used 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 re-usable.

- Handheld temperature meter with large LCD display
- Two selectable K-type thermocouple inputs
- High range temperature measurements up-to 1000 °C
- Accurate Ultra flat K-type thermocouple (1374° C)



ORDERING INFORMATION

67 W0024	Force calibration tool max. 100 N	Loadcell and digital readout unit, special for lowest forces
67 W0000	Force calibration tool max. 250 N	Loadcell and digital readout unit, special for lowest forces
67 W0001	Force calibration tool max. 500 N	Loadcell and digital readout unit, suitable for SH500 and PH500 heads
67 W0002	Force calibration tool max. 1000 N	Loadcell and digital readout unit, suitable for SH500 and PH500 heads
67 W0039	Force calibration tool max. 2500 N	Loadcell and digital readout unit, suitable for SH1250 and PH1250 heads
67 W0023	Thermode pressure paper A4 format, 1 piece	Pressure paper for accurate thermode planarity check, including user manual Force range 5 – 25Kg/cm ²
67 W0003	Thermode pressure paper A4 format, 1 piece	Pressure paper for accurate thermode planarity check, including user manual Force range 25 – 100Kg/cm ²
67 W0037	Thermode pressure paper A4 format, 1 piece	Pressure paper for accurate thermode planarity check, including user manual Force range 2 – 6Kg/cm ²
67 W0008	Digital temperature measuring tool with 7 segment readout	Type K ultra flat thermocouple (50 microns) & digital readout unit
67 W0007	Ultra flat thermocouple for accurate temperature measurements	Ultraflat thermocouple for accurate temperature measurements