

The pioneering Willard heated spatula system has been trusted by conservators around the world for more than 50 years.



From left to right: Hot Air Pen,
Spatulas: 5E, 3E, 2E, 4E, 1E, 1EM.



Control unit for spatulas and irons.



Lining Irons.

Uses:

- Softening natural and synthetic resins and paints (colours)
- Setting resin based repairs
- Applying repair materials
- Bonding
- Lining and edge lining
- Drying adhesives
- Tear mending
- Flattening

Features:

- Electronic temperature control
- Temperature sensors placed close to the tip or sole plate
- Individually calibrated and standardised
- A large range of fixed and interchangeable tips
- Superb quality
- Hand turned hardwood handles
- Robust and durable
- Re-calibration and repair service

Control Units

Standard

- Controls all spatulas
- Large, easy to read temperature setting dial with locking mechanism
- Spatula connection on front panel

Special

- To control all irons and all spatulas
- As Standard, but with extra circuitry and connection on rear panel for the irons



Control Unit

Standard for spatulas only

Special for spatulas and irons

Rear view of Control Unit 'Special'.

Note the central connection for irons which is not present on 'Standard' units.

Spatulas with fixed sole

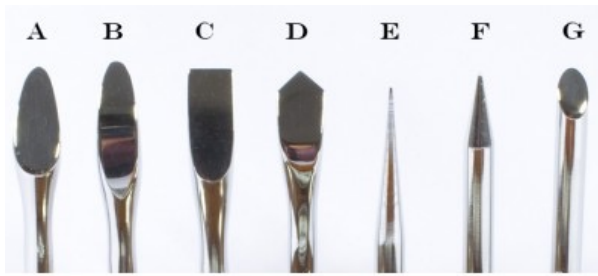
- | | |
|-----------|---|
| 2E | Elongated oval shape, multi-use design |
| 3E | A broad, egg-shaped profile |
| 4E | A thin, curved plate sole |
| 5E | A large rounded design, excellent for medium sized repairs and smoothing |
| Flexible | Ultra-thin stainless steel blade. Comes with small supplementary transformer |
| Grooved E | Fixed, 100°,'V'-grooved shape for re-forming right angled folds on the edges of canvases to fit over stretchers. Compatible with Control Unit Special only. |

Spatulas with interchangeable tips

- | | |
|-------------|---|
| 1E | Popular and versatile |
| 1EC | Compact. Like 1E, but with a shorter stem |
| 1EM | Micro. Our smallest spatula, about the size of a pen. |
| Hot Air Pen | Features interchangeable nozzles and uses a dedicated control unit. |



Interchangeable spatula tips



Standard tips for 1E and 1EC

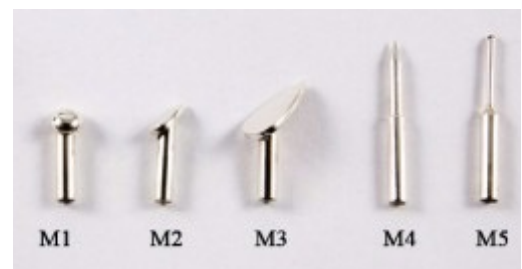


X-Type



Standard tips for 1EM

- Micro-Tip M5 is favoured for fibre bonding techniques
- The X-Type was developed in co-operation with a college in Germany



Micro tips (silver) for 1EM

*We also make custom tips, please ask for details

Hot Air Pen

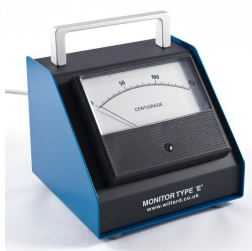
- The hand piece incorporates a fan and the heating element.
- Comes with three nozzles of different shapes
- Control unit dials regulate air flow and heat input
- On/off switch with indicator lamp
- heating circuit indicator lamp
- Connection on front panel

Please note: air temperature varies not only with power input & airflow, but also with the distance of the nozzle from the object. Please see the temperature chart on our website.

Note: The Hot Air Pen Control is a dedicated unit and will not operate spatulas and irons



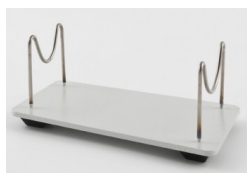
Accessories



Temperature Monitor



Control Unit Stand. To elevate front of unit



Open Spatula Stand



Enclosed Spatula Stand, with tip holder

Irons

Models	Shape	Sizes
6E	Classic symmetrical, pointed tip iron	Mini, Standard, Medium, Large
7E	Rectangular with slightly rounded corners	Mini, Standard, Medium, Large
8E	Non symmetrical. Point offset to left or right to customer choice	Mini, Standard, Medium, Large
9E	Rectangular with a broad, rounded nose	Large only
Cold Setting	Unheated, high mass, for the fast setting of repairs and reinforcements.	Large only



Specifications

Control Units for Spatulas and Irons

Rated Voltage	220/240 VAC, or 110/120 VAC
Rated Power:	5 Amp
Rated Frequency	50-60 Hz
Protection:	Class 1 - this equipment must be earthed
Fuse (Main)	Type F 5A
Fuse (Output)	Type F 3A
Spatula Outlet Rating	36V 3Amp
Iron Outlet Rating	230V 10Amp
Working Temperature	Ambient to 150°C
Width	205 mm
Height	115 mm
Length	240 mm
Weight	3.1 Kg

Spatulas

Rated Voltage	36V
Rated Power:	60W
Working Temperature	Ambient to 150°C

Irons

Rated Voltage	220/240 VAC, or 110/120 VAC
Rated Power:	1000 W
Working Temperature	Ambient to 150°C

Hot Air Pen

Rated Voltage	220/240 VAC, or 110/120 VAC
Rated Power	100w
Temperature	Variable, see note on previous page.
Width	200 mm
Length	200 mm
Height	80 mm