

Heated Hand Tools & Accessories Product Guide

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**

Uses

- Softening natural and synthetic resins
- Softening existing paints (colours)
- Setting resin based repairs
- Applying repair materials: textile, paper, non-wovens etc
- Bonding
- Lining and edge lining
- Drying protein and starch based adhesives
- Tear mending
- Flattening

Features

- Designed and made specifically for conservation
- Electronic temperature control
- Temperature sensors placed either in, or very close to the tip or sole plate
- Each tool individually calibrated and standardised
- A large range of fixed and interchangeable tips
- High quality materials and innovative, elegant design
- Hand made in our own workshops
- Hand turned hardwood handles
- Superb quality
- Robust and durable
- Re-calibration and repair service



Control Unit (spatulas & irons)



Irons 8E, 7E, 6E

SPATULAS with interchangeable tips

- 1E** A popular and versatile tool
- 1EC** ('Compact') like 1E, but with a shorter stem
- 1EM** ('Micro') our smallest spatula, about the size of a pen

Spatulas with fixed sole plates

- 2E** Elongated oval shape, multi-use design
- 3E** A broad, egg-shaped profile
- 4E** With a curved plate sole. The edge can also be used for small area contact
- 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 paintings to fit over stretchers (Control Unit Special only)



Flexible



Grooved E

IRONS

- | | Shape (see picture side one) | Sizes |
|---------------------|--|--------------------------------------|
| 6E | Classic symmetrical, pointed tip iron | <i>Mini, Standard, Medium, Large</i> |
| 7E | Rectangular with slightly rounded corners | <i>Mini, Standard, Medium, Large</i> |
| 8E | Non symmetrical. Point offset to left or right to customer choice | <i>Mini, Standard, Medium, Large</i> |
| 9E | Rectangular with a broad, rounded nose | <i>Large only</i> |
| Cold Setting | Unheated, high mass, for the fast setting of repairs and reinforcements. | <i>Large only</i> |

CONTROL UNITS

A Willard Control Unit is required to operate Willard Spatulas and Irons. None is compatible with other makes.

Standard

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

Special

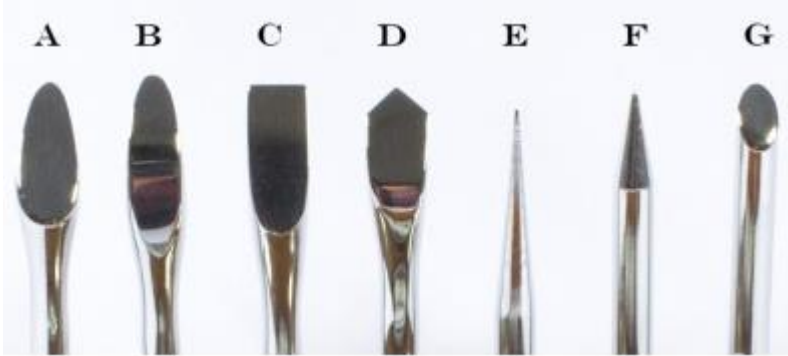
- As above, but with extra circuitry and outlet on rear panel for connection to the irons
- To control all irons and all spatulas



Left: rear view of Control Unit 'Special'. Note connection for irons which is not present on 'Standard' units.

Existing Standard units can be returned to our works for conversion to Special.

SPATULA TIPS (interchangeable)



Standard tips for 1E and 1EC



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
- We also make custom tips, please ask for details



X-Type



Micro tips (silver) for 1EM

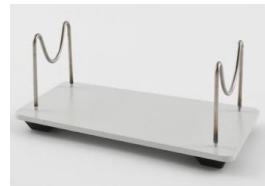
ACCESSORIES



Temperature Monitor



Control Unit Stand



Open Spatula Stand



Enclosed Spatula Stand, with tip holder

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 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

To see our full product range please visit: www.willard.co.uk

SPECIFICATIONS

Control Units for Spatulas

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

FOR FURTHER INFORMATION or advice about Willard Hand Tools or any other of our products please contact:

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To see our full product range please visit: www.willard.co.uk