LT-050B
Light Force Weld Heads

- Ultra light force (to 40 g) for micro welding fine wires and ribbons
- Viewing microscope (optional) for precise part positioning
- Precise force adjustment
- No electrode deflection

TYPICAL APPLICATIONS

- Wire to chip
- Fine magnet wire
- Reflow contact to pad

KEY FEATURES
- 40 - 1000 gf (0.39 - 9.81 N) designed to join fine wires and ribbons between 0.0003 in - 0.01 in (0.008 mm - 0.254 mm) in thickness
- Numeric force adjustment set with 3-digit numeric counter
- No deflection through stroke ensures consistent electrode contact and avoids welding blowouts or inconsistencies
- Configurable design accommodates a wide variety of applications
- Manual foot or air actuation
- May be fitted with an optional microscope for manual parts positioning
MODEL LT-050B-F PR LT-050B-A/24 ELECTRODE HOLDER WITH UNITIP ELECTRODE

- Single-sided parallel gap welding
- Accessibility into electronic packages
- Ribbon and wire thickness from 0.0003 in to 0.005 in
- Best suited for conductive materials

MODEL LT-050B-F/UB OR LT-050B-A/UB ELECTRODE HOLDER WITH UNIBOND ELECTRODES

- Single-sided parallel gap welding (adjustable gap)
- Electrode footprint size promotes electrode lifetime
- Ribbon and wire thickness from 0.0005 in to 0.005 in
- UTA adapter available for Unitips
- Welds both resistive and conductive materials
LT-050B-RF – 17BM STYLE BLADE THERMODE
LT-050B-LRF – 17P STYLE THERMODE

- Blade or single point thermode heating element according to part accessibility

MODEL LT-050B-F/OPP

- Light force opposed configuration enables the welding of a wide range of both conductive and resistive materials
- Uses standard ES0400 series electrodes
### TECHNICAL SPECIFICATIONS

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stroke</strong></td>
<td>0.75 in (1.9 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Throat depth</strong></td>
<td>4.66 in (11.8 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power rating</strong></td>
<td>125 watt-seconds or 2 KVA at 8% duty cycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MICROSCOPE ACCESSORIES

- BLFOI fiber optic illuminator system, PN 10-276-01
- Nikon microscope, PN 10-376-01

### MAGNIFICATION AND WORKING DISTANCE OPTIONS

<table>
<thead>
<tr>
<th>Eyepiece Lenses</th>
<th>Auxiliary Lenses</th>
<th>0.5</th>
<th>0.7</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X</td>
<td></td>
<td>4.0</td>
<td>6.0</td>
<td>8.0</td>
<td>12.0</td>
<td>16.0</td>
</tr>
<tr>
<td>15X</td>
<td></td>
<td>6.0</td>
<td>8.4</td>
<td>12.0</td>
<td>18.0</td>
<td>24.0</td>
</tr>
<tr>
<td>20X</td>
<td></td>
<td>8.0</td>
<td>11.2</td>
<td>16.0</td>
<td>24.0</td>
<td>32.0</td>
</tr>
<tr>
<td>30X</td>
<td></td>
<td>12.0</td>
<td>16.8</td>
<td>24.0</td>
<td>36.0</td>
<td>48.0</td>
</tr>
<tr>
<td><strong>Focal length (working distance)</strong></td>
<td></td>
<td>8.3 in (21.1 cm)</td>
<td>5.9 in (15 cm)</td>
<td>4.5 in (11.4 cm)</td>
<td>2.4 in (6.1 cm)</td>
<td>1.7 in (4.3 cm)</td>
</tr>
</tbody>
</table>

### WEIGHT & DIMENSIONS

<table>
<thead>
<tr>
<th>Dimensions (L x W x H)</th>
<th>Without microscope</th>
<th>With optional microscope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>17.5 in x 10 in x 16 in (444.5 mm x 254.0 mm x 406.4 mm)</td>
<td>23 in x 10 in x 16 in (584.2 mm x 254.0 mm x 406.4 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>6 lb (2.7 kg)</td>
<td>25 lb (11.4 kg)</td>
</tr>
</tbody>
</table>

Specifications subject to change without notice. Copyright © 2020 AMADA WELD TECH INC. The material contained herein cannot be reproduced or used in any other way without the express written permission of AMADA WELD TECH INC. All rights reserved.