Your System Configuration

Tank Size
8 lb (3.6 kg) 1 gal (4.4 L)

Voltage Requirements
120 VAC, Single Phase, 20 A

Motor Rating
120 VAC, 43 RPM
Intended Use

Benchmark® and ProFlex® adhesive melters and components are designed to melt and pump thermoplastic hot melt adhesives and sealants. Any other use is considered to be unintended. Hot Melt Technologies (HMT) will not be liable for personal injury or property damage resulting from unintended use. Intended use includes the observance of HMT safety instructions. HMT recommends obtaining detailed information on the hot melt materials being used.

- The product is only intended for use in industrial applications and may only be used to melt and pump thermoplastic hot melt adhesives (e.g. EVA, PSA, APO, Polyamid).
- The product may only be installed, assembled, commissioned, operated, maintained, repaired, de-commissioned and disposed of by trained personnel.
- The product may only be operated with compatible original components and original accessories from Hot Melt Technologies Inc.
- The product is to be used exclusively for the purpose described herein and within the limits defined in this document. The product must not be modified with respect to its structure or its safety features without the written consent of Hot Melt Technologies. No changes to the software or hardware of HMT products are permitted. Only use original spare parts, original accessories or standard parts that have been approved by HMT.

The instructions are part of this product. No applications other than those described in the instructions are permitted.

Improper Use

Examples of misuse of the product include:
- Melting and pumping of unsuitable adhesives (e.g. PUR-Polyurethane hot melt adhesives)
- In defective condition
- With electrical cabinet open
- With the tank lid open
- Melting and pumping materials which, when under vacuum or pressure, can pose a health hazard or endanger safety in the workplace (e.g. solvents, explosive or highly flammable materials)
- Cleaning the product with highly flammable materials (e.g. solvents)
- Use in environments that require cleaning of the product with jets or sprays of water
- Processing of food

Residual Risks

In the design of the Benchmark and ProFlex systems, every measure was taken to protect personnel from potential danger. However, some residual risks cannot be avoided:
- Risk of burns from hot material
- Risk of burns when filling the tank, from the tank lid, and from the hose and gun exposed metal surfaces.
- Risk of burns when conducting maintenance and repair work for which the melter or components must be heated up.
- Material fumes may be hazardous. Always avoid direct inhalation.
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STOP

If incorrectly used, this machine can cause severe injury. Those who use and maintain the machine should be trained in its proper use, warned of its dangers, and should read the entire manual before attempting to set up, operate, adjust or service the machine.

WARNING

► Do not allow the pump motor to stall. A prolonged stall may damage the motor and other components.
► Do not connect or disconnect electrical connectors, or remove components, with the power on. This will prevent arcing of electrical contacts and possible failure of components.
► Always close and secure the control panel access cover to protect internal electrical components.
► Always operate the system with the tank full and lid on.
► Prior to dismantling, assembly, or adjustment of certain service parts (hose/gun fittings, pump assemblies, etc.), the part(s) being serviced should be preheated to reduce the chance of stripping threads or ruining components.
► Working on or around hot melt adhesives and equipment can cause severe burns.
► Use eye protection, gloves and protective clothing while operating and/or servicing hot melt equipment.
► Before installing any hot melt equipment, determine proper electrical requirements per all applicable codes.

At Hot Melt Technologies, we pay special attention to the needs of operators and service personnel when designing equipment, but molten hot melt adhesives are dangerous and can cause severe burns. Extreme care must be exercised to insure personnel safety.

Fire, explosion, personal injury, property, and/or equipment damage can result if the material(s) used in or around any hot melt adhesive supply unit are toxic, heat, or fire sensitive. Always read the manufacturer's recommended use guidelines.

All HMT units are equipped with over temperature protection as a necessary safety device. Run-away heating can cause hot melt materials to exceed their flashpoint.
Before Using Your Hot Melt System

It is your responsibility and obligation to make sure your system:

- Has been properly installed off the floor and on a steady, level work surface away from combustible materials.
- Has been located in such a way that the controls are away from the operator and that the control panel is securely closed at all times.
- Is the right capacity system for the intended use.
- Is connected to the proper power supply. (See Below).
- Is only used to do what a hot melt system is designed to do.
- Is not used by anyone unable to operate it properly.
- Is used in an area where the room temperature does not fall below 65 °F.
- Is used in an area which is free from blowing air caused by cooling fans, open doors or windows.

Basic Electrical Power Connections

For 120 VAC Operation

- A fused 20 amp 120 VAC electrical supply is required. Performance problems will occur with voltages less than 108 VAC or greater than 132 VAC.
- Total amperage draw will depend on the final system configuration; number of hoses & length, guns, accessories, etc.
- Do not allow the system to share the same circuit with other electrical items. A dedicated supply is recommended.
- Do not use an extension cord.
- If you change the configuration of your system in any way that may affect the electrical requirements (ex. add a gun, longer hose, automate, etc.) call HMT Technical Service & Support at 248-853-2011 for assistance.
Operating Instructions

Benchmark 205-LV4

Front Panel Controls

1. Main Power Switch: Turns the system “ON” or “OFF.”

2. To adjust the Tank Temperature Set Point: Press and hold the “+” or “-” button for two (2) seconds to enter Set Mode. The Set Mode LED will illuminate when Set Mode is active. While in Set Mode, use the “+” or “-” button to change the tank temperature set point. The tank temperature can be adjusted between 225°F and 400°F (107°C and 204°C).

3. Temperature Display: Displays the tank temperature in °F or °C. If the “+” or “-” button is pressed the tank temperature set point is displayed. When released the Temperature Display will show the actual tank temperature.

4. Over Temp: Over Temp occurs when the tank temperature reaches 425°F (218°C). The Over Temp LED will flash red, for safety the system will shut down, and “OFF” will be shown on the Temperature Display. Contact Technical Service and Support for repair options.

5. Pump Ready: When the Pump Ready LED is illuminated, the pump can be triggered on. The Pump Ready LED illuminates when the tank temperature is within 25°F (14°C) of the tank temperature set point.

6. Pump Control “ON/OFF” Switch: Allows the pump motor to run when triggered.
7 **Celsius:** If the “Deg °C” switch is in the ON position, the temperature display will show the tank temperature in °C.

8 **Set Lock:** If the “Set Lock” switch is in the ON position, Set Mode cannot be activated and the tank temperature set point cannot be changed. The Set Mode LED will not illuminate when the “set lock” switch is ON.
Operating Instructions
Benchmark 205-LV4

Adjusting Hose & Gun Temperatures

Turn OFF the Main Power Switch and disconnect electrical service prior to accessing any internal components.

1) Remove the four (4) screws that attach the face panel to the shroud using a 9/64” Allen wrench, and carefully lift the face panel off the shroud.

2) Hose & Gun Zones 1 and 2 can be adjusted using the Hose/Gun Temp Adjust Trim-pot that is located on the Mother Board (245-100). See illustration below.

3) Table A below gives an approximate temperature for settings of the Hose/Gun Trim-Pot.

Table A

<table>
<thead>
<tr>
<th>Trim-Pot Set</th>
<th>Standard Hose (721-6XX)</th>
<th>High Temp Hose (721-6XX-HT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>225°F (107°C)</td>
<td>275°F (135°C)</td>
</tr>
<tr>
<td>M</td>
<td>287°F (142°C)</td>
<td>338°F (170°C)</td>
</tr>
<tr>
<td>H</td>
<td>350°F (177°C)</td>
<td>400°F (204°C)</td>
</tr>
</tbody>
</table>

NOTE: Substandard voltages will reduce temperatures listed above.
Exploded View

Benchmark 205-LV4

BILL OF MATERIALS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NO</th>
<th>QTY</th>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NO</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tank Lid Assembly</td>
<td>911-004</td>
<td>1</td>
<td>8</td>
<td>Motor Assembly 43 RPM, 120 V</td>
<td>941-016</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Tank Seal 7”</td>
<td>510-015</td>
<td>1</td>
<td>9</td>
<td>Tank Heater Harness, 120 V, 1000 W</td>
<td>923-215</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Tank Shroud Assembly</td>
<td>345-014</td>
<td>1</td>
<td>10</td>
<td>Tank/Pump Assembly</td>
<td>See page 10</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Front Panel</td>
<td>See page 11</td>
<td>1</td>
<td>11</td>
<td>Tank Filter 1/4” Mesh</td>
<td>420-061</td>
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<tr>
<td>5</td>
<td>Benchmark LV &amp; HV Main Board</td>
<td>245-100</td>
<td>1</td>
<td>12</td>
<td>Handgun Hanger Bar</td>
<td>330-012</td>
<td>1</td>
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<tr>
<td>6</td>
<td>Base Assembly</td>
<td>330-060</td>
<td>1</td>
<td>13</td>
<td>Hose/Gun Wire Harness</td>
<td>922-027</td>
<td>2</td>
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<tr>
<td>7</td>
<td>Motor Coupling Assembly (LV/HV)</td>
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<td></td>
<td>Power Cord, 120 VAC, 20 A (not shown)</td>
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Recommended for low viscosity products only.
Tank & Pump Assembly

911-070

BILL OF MATERIALS

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<td>2</td>
<td>1/4&quot; Black, Lock Washer</td>
<td>316-007</td>
<td>6</td>
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<tr>
<td>3</td>
<td>1/4&quot; Flat Washer</td>
<td>315-007</td>
<td>4</td>
</tr>
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<td>90º Male Elbow, 3/8&quot; NPT to #6 JIC</td>
<td>160-029</td>
<td>2</td>
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<td>5</td>
<td>3/4-16 Plug with O-ring</td>
<td>160-042</td>
<td>1</td>
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<tr>
<td>6</td>
<td>Pump Seal, Chevron</td>
<td>510-020</td>
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</tr>
<tr>
<td>7</td>
<td>Pump Seal Retainer</td>
<td>420-002</td>
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</tr>
<tr>
<td>8</td>
<td>1/4-20 X 1.25&quot; Hex Head Bolt</td>
<td>328-005</td>
<td>2</td>
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<tr>
<td>9</td>
<td>DFS Tank Mounting Hardware Kit (LV/HV)</td>
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<tr>
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<td>DFS Pump Kit 30mm</td>
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<tr>
<td>11</td>
<td>Flow Control Assembly (incl. item 12)</td>
<td>940-003</td>
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<td>12</td>
<td>DFS Accu-Flow™ Control</td>
<td>940-015</td>
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Front Panel

Components

Benchmark 205-LV4

BILL OF MATERIALS

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<td>On/Off Breaker, 20 A 120 VAC</td>
<td>211-045</td>
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<td>6-32 × 1/4” Socket Head Cap Screw</td>
<td>322-002</td>
<td>6</td>
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<tr>
<td>3</td>
<td>Benchmark LV/Display Board</td>
<td>245-101</td>
<td>1</td>
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<tr>
<td>4</td>
<td>LV4 Micro Face Plate</td>
<td>330-066</td>
<td>1</td>
</tr>
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<td>8-32 × 7/16” Socket Head Cap Screw</td>
<td>322-031</td>
<td>4</td>
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<td>6</td>
<td>Benchmark LV4 Face Panel Decal</td>
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<td>7</td>
<td>Pump Switch</td>
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Hose Information

Benchmark 205-LV4

**721 Series Hoses 120 VAC**

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<tr>
<td>721-6</td>
<td>08</td>
<td>S</td>
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<td></td>
<td>16</td>
<td>HTS</td>
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**NOTE**
Substandard voltages will reduce hose temperatures.

**BILL OF MATERIALS**

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<th>QTY</th>
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<tbody>
<tr>
<td>1</td>
<td>Hose Mounting Block</td>
<td>540-027</td>
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</tbody>
</table>

**Machine End**

**Gun End**

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Proper Hose Usage

Avoid abrasion against objects

Also Avoid
• Twisting or pulling
• Getting hoses wet
• Heating fittings with a torch
• Installing in closed conduits
• Bending while cold

Repair services are available
Please contact Technical Service and Support

Hose Information

Benchmark 205-LV4
### BILL OF MATERIALS

<table>
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<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>QTY</th>
<th>DG-411-S</th>
<th>DG-413-S</th>
<th>DG-413-T</th>
<th>DG-513</th>
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<tr>
<td>1a</td>
<td>Handgun Body (Standard, In-Line)</td>
<td>125-001</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>1b</td>
<td>Handgun Body (Top Entry)</td>
<td>125-002</td>
<td>1</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>2</td>
<td>Trigger</td>
<td>125-004</td>
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<td>●</td>
<td>●</td>
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<td>3a</td>
<td><strong>DFS</strong> Heater Harness (Standard, In-Line) 30 W</td>
<td>912-110</td>
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<td>●</td>
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<td><strong>DFS</strong> Heater Harness (Standard, In-Line) 35 W</td>
<td>912-112</td>
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<td><strong>DFS</strong> Needle Assembly (Standard, Top Entry)</td>
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<td>●</td>
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<tr>
<td>4b</td>
<td><strong>DFS</strong> Needle Assembly (In-Line)</td>
<td>912-061</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>5</td>
<td>6-32 X 1/4&quot; Socket Head Cap Screws</td>
<td>322-002</td>
<td>4</td>
<td>● ● ● ●</td>
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<td>6</td>
<td>Trigger Switch</td>
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<td>Nozzle</td>
<td>See Nozzles</td>
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<td>8</td>
<td>O-ring</td>
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<td>9a</td>
<td><strong>DFS</strong> Heater Body With Linear Swivel</td>
<td>912-547</td>
<td>1</td>
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<tr>
<td>9b</td>
<td><strong>DFS</strong> Heater Body With Ball Swivel</td>
<td>912-545</td>
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<td>●</td>
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<td>11</td>
<td>Trigger Pivot Pin</td>
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<tr>
<td>12</td>
<td>6-32 X 1/2&quot; Socket Head Cap Screws</td>
<td>322-004</td>
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<td>13</td>
<td><strong>DG</strong> Handgun Body Assembly Washer</td>
<td>125-035</td>
<td>7</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

*Standard ○ Optional

### YOUR GUN CONFIGURATION

- **Standard Hose Entry**
  - DG-411-S, Linear Swivel
  - DG-413-S, 360 Plus Swivel
- **Top Hose Entry**
  - DG-413-T, 360 Plus Swivel
- **In-Line Hose Entry**
  - DG-513, 360 Plus Swivel

---

**ETC Handgun Parts List**

**Handgun Information**

**Benchmark 205-LV4**

---

**CAUTION**

- HOT ADHESIVE UNDER PRESSURE
- NEVER POINT GUN AT ANYONE
- DO NOT GET HANDGUN WET
- FRONT OF HANDGUN IS VERY HOT DURING OPERATION

**340-028** Sticker

**340-029** Sticker

---

**Sticker**

340-028 Sticker

340-029 Sticker

---

**Standard Hose Entry**

- DG-411-S, Linear Swivel
- DG-413-S, 360 Plus Swivel

**Top Hose Entry**

- DG-413-T, 360 Plus Swivel

**In-Line Hose Entry**

- DG-513, 360 Plus Swivel

---

**YOUR GUN CONFIGURATION**

- **Standard Hose Entry**
  - DG-411-S, Linear Swivel
  - DG-413-S, 360 Plus Swivel
- **Top Hose Entry**
  - DG-413-T, 360 Plus Swivel
- **In-Line Hose Entry**
  - DG-513, 360 Plus Swivel
**Nozzle Information**

**Benchmark 205-LV4**

**400 Series Extrusion Nozzles**

- **Top Entry Handgun**
- **Standard Entry Handgun**

<table>
<thead>
<tr>
<th>ORIFICE</th>
<th>PART NO</th>
</tr>
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<tbody>
<tr>
<td>.020&quot;</td>
<td>156-240</td>
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<td>.030&quot;</td>
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<td>156-043</td>
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<td>.090&quot;</td>
<td>156-047</td>
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All nozzles include:
1) O-ring P/N 520-023

⚠️ **NOTE**: Special nozzles are available, please contact us for more information.
### Standard Extended Hypodermic Nozzle

<table>
<thead>
<tr>
<th>ORIFICE</th>
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<th>ORIFICE</th>
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<td>156-026</td>
<td>.090&quot;</td>
<td>156-027</td>
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**NOTE:** Special nozzles are available, please contact us for more information.

### Your System Configuration

- **Retaining Nut:** 310-026
- **O-ring:** 520-020, 520-023
- **Fluid Nozzle/Needle Seat:** 156-010

![Diagram](image-url)
Accessory Information

Benchmark 205-LV4

LV/HV Optional Items

**933-001**  
Boom & Balancer (complete)

**933-006**  
Hammock Only

**170-004**  
Balancer Only

**921-011**  
Cart Assembly

**1200-HMP**  
System Flush for Standard Hot Melts

**Macro Clean**  
System Flush for Polyamides & High Performance Resins
### DFS Kits

#### 400 series handguns are Standard and Top Entry
#### 500 series handguns are In-Line

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Image</th>
</tr>
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<tbody>
<tr>
<td>912-111</td>
<td>DFS Heater Harness</td>
<td><img src="image1.png" alt="Image" /></td>
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<tr>
<td>120 VAC, 30 W</td>
<td></td>
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<tr>
<td>912-113</td>
<td>DFS Heater Harness, 120 VAC, 35 W</td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>912-060</td>
<td>DFS DG-400 Needle Repair Kit</td>
<td><img src="image3.png" alt="Image" /></td>
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<tr>
<td>912-547</td>
<td>DFS Linear Swivel Heater Body Assembly</td>
<td><img src="image4.png" alt="Image" /></td>
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<tr>
<td>912-545</td>
<td>DFS Ball Swivel Heater Body Assembly</td>
<td><img src="image5.png" alt="Image" /></td>
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<td>912-546</td>
<td>DFS Linear Swivel Repair Kit</td>
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<td>912-554</td>
<td>DFS Ball Swivel Repair Kit</td>
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<tr>
<td>912-550</td>
<td>DFS Handgun Trigger Switch</td>
<td><img src="image8.png" alt="Image" /></td>
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</table>

400 series handguns are Standard and Top Entry. 500 series handguns are In-Line.

**Top Entry ETC Handgun**

**Standard & In-Line ETC Handgun**

**DFS Accu-Flow™ Control**

**DFS Pump Rebuild Kit**

**DFS Handgun Trigger**

**DFS DG-500 Needle Repair Kit**

**DFS DG-500 Needle Repair Kit**

**DFS Handgun Trigger Switch**

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Warranty Information

This Warranty extends to the original purchaser only and commences on the date of the original purchase.

Any part of the Hot Melt Technologies (HMT) adhesive supply unit (ASU) manufactured by HMT and found in the reasonable judgement of HMT to be defective in material and workmanship, will be repaired or replaced by HMT without charge for parts or labor.

This Warranty is limited to:

a) One (1) year from initial use,

b) Eighteen (18) months from date of purchase, or

c) Two thousand (2,000) hours of use, whichever comes first.

The ASU including any defective part must be returned to HMT within the warranty period. All transportation expenses to HMT for warranty work and the expense of returning it to the owner will be paid for by the owner. HMT’s responsibility in respect to claims is limited to (at its option) making the required repairs, adjustment, or replacements. No claim of breach of warranty shall be cause for cancellation of the contract of sale of any HMT ASU.

This warranty does not cover any ASU that has been subject to misuse, abuse, negligence, or accident, or which has been operated in any way contrary to the operating instructions. Warranty does not apply to any damage to the ASU that is the result of improper maintenance or installation.

This warranty does not cover any ASU that has been altered or modified by the customer. In addition, the warranty does not extend to repairs made necessary by normal wear or by the use of hot melt materials in the ASU which in the reasonable opinion of HMT are either incompatible with the ASU or adversely affect its operation, performance, or durability. This warranty does not extend to any accessory attachments to the ASU that are warranted separately for different periods of time. Other components supplied by HMT as part of a system will carry the warranty of the original manufacturer.

This warranty does not extend to an ASU damaged during shipment. Risk of loss or damage to the ASU shall pass to the buyer.

HMT reserves the right to change or improve the design of any ASU, or part of an ASU without assuming any obligation to modify any ASU previously manufactured.

HMT assumes no responsibility for incidental, consequential or other damages including but not limited to: expense for hot melts, delivery or return freight expenses, mechanics travel time, telephone or telegraph charges, rental of a like product during the time warranty repairs are being performed, travel, loss or damage to personal property, loss of revenue, loss of use of the ASU, loss of time or inconvenience.
Technical Service & Support (TSS) Can Help

Phone & E-mail Support
▶ Most problems can be taken care of with one call
▶ Troubleshooting and Repairs
▶ System Set Up and Operation
▶ Maintenance and Preventative Maintenance.

Factory Service Center
▶ Repair and Upgrade of HMT ASU’s, Hoses & other components
▶ Turnaround is fast and all work is guaranteed
▶ Free Training Classes are available at our Factory Service Center

Contact TSS
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