

# Benchmark<sup>®</sup> HTP

HOT MELT SYSTEMS



## Hot Melt Technologies, Inc.

No One Puts It Together Like HMT.

### Discover the HMT Difference.

Production Proven Hot Melt Systems For  
High-Performance Handgun Operations

Benchmark 535 with  
a 35 lb. melt tank and  
a standard handgun



# Discover The HMT<sup>®</sup> Difference

**No Matter The Application...**

**There's A Benchmark<sup>®</sup>-HP System To Meet Your Needs.**

For over 20 years Hot Melt Technologies' (HMT<sup>®</sup>) Benchmark-HP Series of equipment has set the standard for high-performance hot melt handgun applicators. For dispensing EVA's, APO's, PSA's, Polyesters, or Polyamides; even P.U.R's, Benchmark hot melt systems have earned a worldwide reputation for uncompromised durability, reliability and performance.

## **Benchmark: The Industry Standard For Hot Melt Handgun Applicators**

Benchmark excellence begins with the melt unit. We use only the highest quality, modular components – 10 gauge steel base platforms, hardened spur gear pumps, high-torque fractional horsepower drive motors, and our patented melt-on-demand modular melt tanks. Temperature and process controls are sophisticated yet easy-to-use, tamper resistant, and, above all, safe.

### **Benchmark<sup>®</sup> 315**

The Benchmark 315 blends high-performance with low cost to create the ultimate hot melt handgun system for single work-cell assembly applications. Pre-assembled and ready-to-run right out of the crate, the Benchmark 315 has a modular 15-lb. capacity melt tank and full featured microprocessor control. It can be equipped with an 8, 12, or 16 ft. hose and any of HMT's handguns and nozzles. Easy to operate and maintain. 120vac operation.



Benchmark 315



Benchmark 535

### **Benchmark<sup>®</sup> 500 Series**

The Benchmark 500 Series offers the exclusive feature of an interchangeable melt tank with 17-, 25-, 35-, or 50-lb. capacities providing exceptional value/performance/flexibility and decision-making confidence. The Benchmark 500 Series is capable of serving single or dual work cells with hose lengths up to 28 feet, handguns and nozzles for bead, slot, or spray applications. Available in 120vac or 220vac.



# Hoses, Handguns and Nozzles... HMT Leads The Way.

From our exclusive 360-Plus® ball swivel on our handguns, to our cool-touch spray nozzles, to the extra-tuff covering on all our heated hoses, HMT continues its innovative leadership.



Top Entry



In-Line, Manual



In-Line, Semi-Automatic

## Innovative Handguns and Nozzles

Our handguns are ergonomically designed to reduce operator fatigue and weigh less than 1 ½ lbs. Handguns feature your choice of:

- 360-Plus® Ball or 360° Linear swivels
- Standard or Top Hose Entry
- Interchangeable nozzles, Bead or Spray
- In-Line Manual or Semi-Automatic



Interchangeable handgun nozzles are available for every application... bead, spray, extended nozzles, slot nozzles, T-nozzles, I.G. gunning tips, and many more. And if you need something special...we are glad to accommodate.



Standard Entry



Cordless

## Heated Hoses Built-To-Last

HMT builds heated hoses to the most exacting engineering and safety standards. The stainless steel core of each hose is hand-wound with multi-strand nichrome heater wire imbedded in 60mils of silicone, wrapped with insulation, and protected with an extra-tuff layer of abrasion resistant nylon braiding. And all our hoses feature our industry exclusive replaceable RTD sensors.



## MELT UNIT SPECIFICATIONS

### System Type

- Tank w/Gear Pump
- High-Performance, Industrial

### Electrical

- 120v or 220v, 1ph, 50/60Hz

### Maximum Hoses and Guns

- 2 Hoses and 2 Guns

### Melt Tank

- Modular (HMT patent)
- Melt-On-Demand
- Interchangeable
- PTFE Teflon Coated Aluminum

### Melt Tank Capacities

- BM315: 15 lbs.
- BM500: 17-,25-,35-,50-lbs.

### Melt Tank Heaters

- Cartridge Style

### Motor

- Fractional HP, up to 86rpm

### Pump

- Hardened Steel Spur Gear
- Adjustable Flow Control, Up to 100 lbs/hr.
- Up to 1230psi (85bars)

### Melt Rate

- BM315: Up to 15 lbs/hr.
- BM500: Up to 30 lbs/hr.

## CONTROL SPECIFICATIONS

### Control Type

- Modular
- Full Feature Microprocessor
- Tamper Resistant

### Process Control

- Melt-On-Demand
- 100ohm Platinum RTD, all zones

### Front Panel Display

- Run Temp Display
- Set-Point Display
- High Limit Display
- Readout in °F or °C
- Manual Standby

### Run Temp Range

- 100°F to 475°F ±1

### Safety Limits

- High Set Point Limit
- O.T. Protection with Auto Shutoff
- Pump Ready Lock Out

### Safety Timers

- Auto-Standby
- Auto-Off
- Wake-up Timer

### Serviceability

- Plug-in Control Relays
- Plug-in Microprocessor
- Plug-in IC's

## HOSE SPECIFICATIONS

### Hose Lengths

- Up to 28 ft.

### Maximum Operating Temp

- Up to 475°F

### Max. Hydraulic Pressure (#6 Core)

- Up to 2000psi

### Construction

- PTFE Lined Stainless Steel Core
- Stainless Steel Fittings
- Layered Aramid-Felt Insulation
- Super-Tuff Nylon Outer Sleaving

### Heater

- Multi-Strand, Kapton Coated Nichrome

### Sensor

- 100ohm Platinum RTD

## HANDGUN SPECIFICATIONS

### Gun Configurations

- Standard Entry
- Top Entry
- In-Line, Manual
- In-Line, Semi-Automatic

### Sensor

- 100ohm Platinum RTD

### Operating Temperature

- Up to 475°F

### Operating Pressure

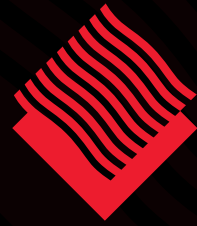
- Up to 2000psi

### Nozzles

- Bead
- Spray
- Slot
- Special

### Optional Accessories

- Overhead Boom & Balancer Assemblies
- Steel Cart with Castors
- On-Off Timer: 24hr/7 Day
- Automatic Guns w/Foot Switch and Shot Timers



## Cost Of Ownership

Hot melt systems operate at high temperatures for extended periods of time. Eventually and at different times, the melt tank, pump, heated hoses, guns and nozzles will need to be cleaned, repaired or replaced.

At HMT, we adhere to the engineering protocol "Design for Serviceability" (DFS) in all our Benchmark products and components. This has led to our industry exclusive DFS® Service and Repair Kits and our NXP® New Exchange Program. A review of our component repair and replacement costs will impress your maintenance department and please your front office.



"HMT is a choice you can make with confidence."



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