

PROTEXX<sup>®</sup>

HOT MELT SYSTEMS



**The Ultimate  
In High-Volume Production  
And Flexibility.**



**Hot Melt  
Technologies, Inc.**

No One Puts It Together Like HMT.<sup>®</sup>

# ProFlex® Systems: Modular To Meet Your Needs Today...

## Reconfigurable To Meet Your Needs Tomorrow.

With ProFlex® Systems, Hot Melt Technologies (HMT®) defined the modular design concept with reconfigurable and interchangeable components that deliver maximum performance, flexibility, serviceability and value to high-volume hot melt operations.

By specifying the tank size, pump capacity, motor type and other components, you start with the optimum system for your application.

Should a component require service, our easy-to-install, interchangeable parts help keep your production line moving. And later on, our modular concept means you can readily reconfigure your system to meet changing needs.

Of course, there are more reasons why ProFlex Systems are the hot melt applicators of choice for many of America's leading companies. Like rugged construction that's been proven in countless high-abuse shop-floor operations.

Plus quality control procedures and attention to manufacturing detail that work to ensure customer satisfaction and long service life. In addition, we offer technical support to help you determine the ProFlex configuration that's best for your application.

The bottom line? The durability, reliability and flexibility of ProFlex Systems assure you that the equipment investment you make today will continue working for you long into the future.

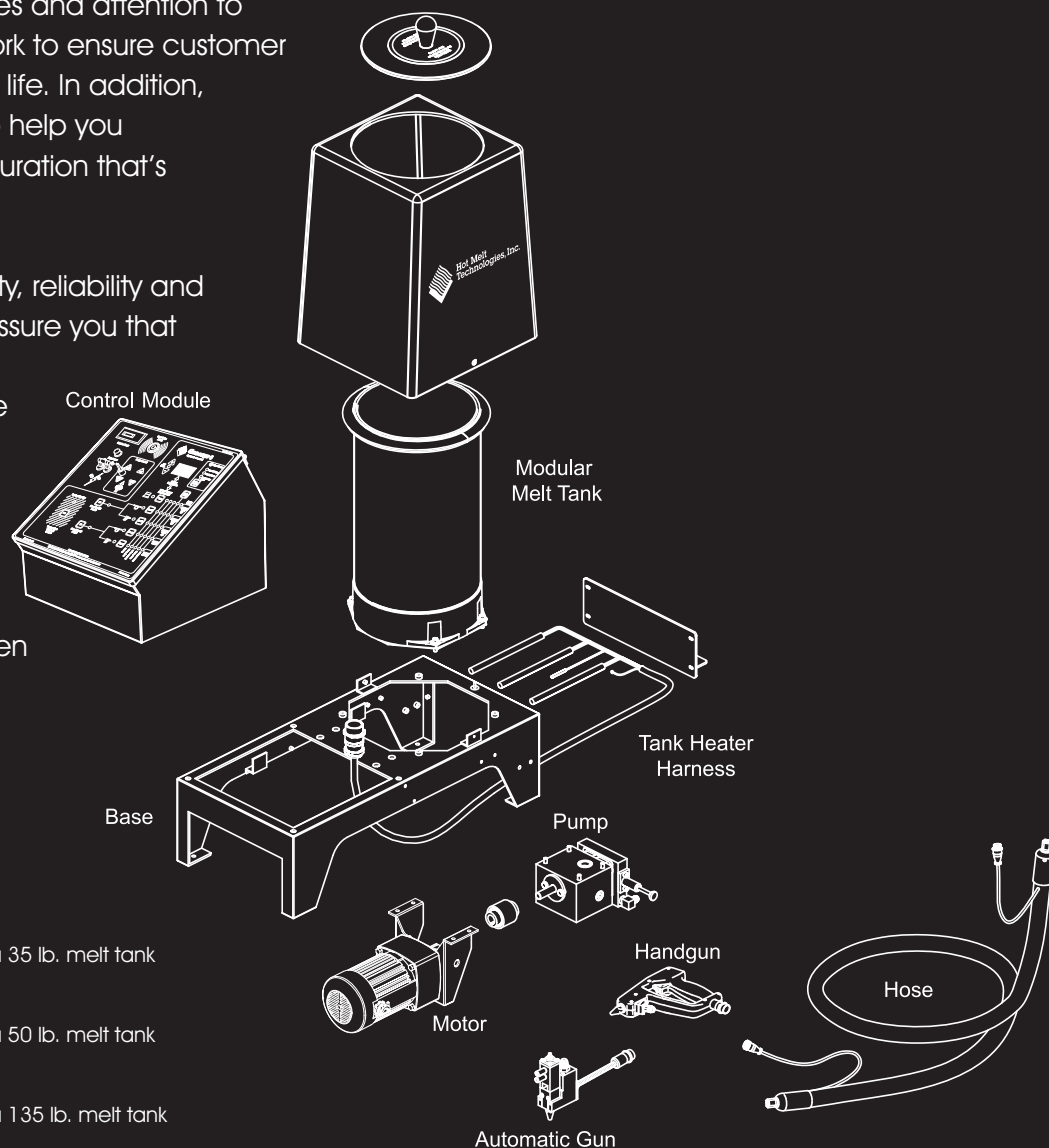
In selecting a ProFlex System, you also go with the confidence you've chosen an industry leader: HMT.

On the front cover:

Top photo  
ProFlex with a G4 control module and a 35 lb. melt tank

Middle photo  
ProFlex with a G5 control module and a 50 lb. melt tank

Bottom photo  
ProFlex with a G9 control module and a 135 lb. melt tank



# ProFlex Systems:

## Specify The System That Meets Your Exact Needs.

### Interchangeable Genesys™ System Control Modules

Genesys System Controls are simple, secure and smart. Programming is intuitive behind the tamper-proof, lockable front panel. Each control module has redundant fail-safe features along with easy-to-understand front panel diagnostics. Utilizing 100ohm Platinum RTD Sensors, accuracy of  $\pm 1^\circ \text{ F}$  between  $100^\circ \text{ F}$  and  $475^\circ \text{ F}$  is assured.

And all Genesys Control Modules can be used interchangeably with handguns or automatic guns, bead or spray applications. And for easy serviceability, each control package features a plug-in microprocessor and plug-in solid state relays for all control zones.

- Genesys G4, 5 Zone 120v
- Genesys G5, 5 Zone 220v
- Genesys G9, 9 Zone 220v

### Welded Steel Platform

Platforms feature 10-gauge, cold-rolled steel construction.

### Interchangeable Drive Motors

Fractional horsepower pump drive motors are designed for intermittent or continuous duty and provide pump rates up to 150 lbs./hour:

- 1/6 HP, AC
- 1/3 HP, AC
- 1/4 HP, DC

### Interchangeable Steel Gear Pumps

Positive-displacement steel gear pumps feature wear-resistant bearings as well as adjustable flow controls plus drain valves and filter ports:

- Standard PA-30
- High Performance PA-40
- X-treme Performance PA-50

### Interchangeable Tank Heaters

Tank heaters can be selected to meet melt-on-demand requirements. This flexibility coupled with proportioning RTD temp control and superior melt tank insulation, assures minimum energy consumption while meeting melt and usage rate requirements.

### Interchangeable Melt Tanks

Patented modular melt tanks provide on-demand melting without charring:

- 25 lbs. (approx. 3.5 gallons)
- 35 lbs. (approx. 5 gallons)
- 50 lbs. (approx. 7 gallons)
- 135 lbs. (approx. 20 gallons)
- 200 lbs. (approx. 28 gallons)

Special-purpose melt tanks are available for:

- PUR's (moisture-cure hot melts)
- HSA's (heat sensitive hot melts)
- Sealants



## Automatic Guns

HMT 600 Series Automatic Guns are designed for high-volume, heavy-duty product assembly applications with either bead or spray nozzles:

- Fixed-point dispensing
- Wide web applications
- Robot operations

HMT 800 and 900 Series Automatic Guns are designed for packaging and converting applications:

- Tray making
- Carton and case sealing
- Taper conversions
- Palletizing



## Heated Hoses

Interchangeable with HMT handguns or automatic guns, Heated Hoses are built to withstand the abuse common in the roughest industrial hot melt applications. Offering maximum durability and service life, they feature:

- Lengths up to 24 ft.
- Core diameters of 3/8 in., 1/2 in., or 5/8 in.
- Replaceable RTD sensor
- Super-Tuff, X-treme nylon sleeving

## Handguns

Ergonomically designed to reduce operator fatigue and weighing less than 1 1/2 lbs., HMT Handguns feature:

- 360° Linear Swivels or 360-PLUS® Ball Swivels
- Standard hose entry, top-entry or in-line entry
- Interchangeable nozzles for bead or spray applications
- Corded or Cordless

## Nozzles

Interchangeable handgun and automatic gun nozzles are available for every application... bead, spray, swirl spray, I.G. gunning tips, extended nozzles, slot nozzles, taper nozzles, single or multi-bead nozzles, reduced cavity nozzles, and many more.



# A Custom-Built ProFlex System... A Choice You Can Make With Confidence.

ProFlex Systems are being specified today by many of America's leading companies. And for good reason...

**Exacting Performance** - ProFlex Systems are custom-built from a selection of heavy-duty, modular and interchangeable components to fit precise application and process requirements. This means you start with the exact system you want - with the assurance that you can easily replace components to minimize downtime or readily reconfigure your system to meet future needs. Plus with ProFlex, you get uncompromised durability and reliability proven year after year on countless shop floors worldwide.

**Easy-To-Use** - Genesys™ System Controls are an integral part of every ProFlex System. Temperature and feature settings are secured behind a tamper-resistant, lockable front panel. Flow adjustments are made with a single knob. All ProFlex Systems provide  $\pm 1^\circ$  F temperature control accuracy, redundant fail safe features, and front panel system diagnostics. And, they can even shut themselves off if you forget!

**Flexible & Capable** - With up to 4 gun and 4 hose capability, ProFlex Systems can be used with handguns and automatic guns interchangeably and with bead or spray nozzles. Systems can handle fluid viscosities of up to 1,000,000 cps and temperatures up to 475° with flow rates as high as 150lbs. per hour.

**Serviceable** - To maintain shop-floor productivity and front office satisfaction, the ProFlex modular design concept means quick and easy serviceability with fewer spare parts, less repair time, and less cost. Plus all ProFlex Systems are backed by comprehensive warranties and industry-leading after-the-sale service programs.

## Let The Experts At HMT Custom-Build A Proflex For You.

With over 25 years of hot melt experience including countless product assembly, packaging and converting applications in almost every industry, HMT understands hot melt.

We also understand the importance of a satisfied customer. As such, we've taken a leadership role in providing technical expertise and assistance to customers in order to recommend hot melt equipment that best meets the needs of the customer's specific application. In our Adhesives and Process Evaluation Lab, we can simulate your application to measure output, usage, and melt-rate requirements. Our goal...to help your company achieve peak productivity.

Let the experts at HMT help you custom-build a ProFlex System to meet the needs of your specific application... and you'll understand why ProFlex is a choice you can make with confidence.





## SPECIFICATIONS

### System Type

- High Performance
- Industrial
- Heavy Duty
- Modular

### Maximum Hoses and Guns

- 4 Hoses and 4 Guns

### Tank Type

- Extruded Aluminum
- Melt-On-Demand
- Modular / Interchangeable
- Release Coated

### Melt Tank Capacities (lbs.)

- 25 lbs., 35 lbs., 50 lbs.
- 135 lbs., 200 lbs.
- Special Tanks

### Tank Heaters

- Interchangeable Cartridge Type
- Serviceable
- Up to 6000w

### Melt Rate\*

- Up to 90 lbs. / hour

### Motor Type

- AC, 1/6 HP
- AC, 1/3 HP
- DC, 1/4 HP

### Pumps

- Steel Spur Gear
- Positive Displacement

### Pump Rate\*

- Up to 150 lbs. / hour

### Viscosity Limits\*

- Up to 1,000,000 cps

### Electrical Service

- G4 @ 120v, 1ph, up to 30amp
- G5 @ 220v, 1ph, up to 40amp
- G9 @ 220v, 1ph, up to 40amp

## STANDARD CONTROL FEATURES

### Temperature Readout

- Front Panel Display
- Run Temp
- Push-to-See Set Point
- Readout in F° or C°

### Run Temperature Range

- 100° F - 475° F, ±1° F

### High Limit of Set Point

- Front Panel Display
- Adjustable, 250° F - 475° F

### Hose / Gun Controls

- Front Panel On/Off Switches
- Up to 4 Hoses and 4 Guns

### Pump / Motor Controls

- Front Panel On/Off Switches
- Up to 2 Pump/Motor Assemblies

### Zone Diagnostics

- Front Panel Display
- Ready, Sensor Fault. Low Temp, Over Temp

### Over Temp Protection

- Front Panel Audible Alarm
- Redundant Fail-Safe Relays
- Independent Zone Shut-Off

### Manual Standby

- Adjustable, 20% - 70% of Set Point

### Safety Timers

- Front Panel Display
- Auto-Standby, 0 - 5 hours
- Auto-Off, 0 - 5 hours

### Pump Ready / Lock-Out

- Tank Temp Ready or
- All Zone Ready
- Ready Delay Timer with Front Panel Display

\* Rates will vary depending on adhesive type and viscosity as well as system configuration.

## DFS® SERVICE FEATURES

### In-Service Clock

- Front Panel Hour Meter

### Controls

- Plug-In Solid State Control Relays
- Plug-In Microprocessor
- Plug-In Fuses

### Adhesive Supply Units (ASU)

- DFS Melt Tanks
- DFS Pumps
- DFS Motors
- DFS Tank Heaters and RTD's

DFS (Designed for Serviceability) components can be easily removed and replaced without disassembly of any other ASU components.

## STANDARD ATTACHMENTS

### Heated Hoses

- Lengths up to 24 ft.
- Core Diameters #6, #8, or #10

### Handguns

- Standard Hose Entry
- Top Hose Entry
- In-Line Hose Entry

### Automatic Guns

- Single or Multi-Valve

### Gun Nozzles

- Single or Multi-Bead
- Ribbon or Slot
- Spray Swirl

## ACCESSORIES

### Hose Support and Overhead Balancer Systems

### Steel Carts with Castors

### 24-hour / 7-day Scheduler

### Single Shot Timers

### Multi-Function Pattern Control Timers

## High-Performance Hot Melt Systems... From An Industry Leader

Since 1981, Hot Melt Technologies has been providing you with whatever it takes to get the job done more efficiently. For one-source convenience, we offer a full line of applicators, adhesives and accessories. For long lasting value, our components are modular and interchangeable – allowing you to reconfigure your system as needed. And for your continued satisfaction, we offer state-of-the-art customer support programs that allow you to stay productive, job after job after job.

So, if you're seeking production expertise, value, convenience and satisfaction, remember ...

**No One Puts It Together Like HMT®**

For more information, check us out at: [www.hotmelt-tech.com](http://www.hotmelt-tech.com) Or call us at:

Detroit  
Corporate Office  
248-853-2011

Atlanta  
678-880-2925

Chicago  
630-530-7868

Cincinnati  
513-942-6862

New York  
516-616-1451



**Hot Melt Technologies, Inc.**

No One Puts It Together Like HMT.

1723 West Hamlin Road • P. O. Box 80067 • Rochester, Michigan 48308

**ISO 9001 – INTERNATIONAL QUALITY ASSURANCE STANDARD**

©2007 Hot Melt Technologies, Inc. 10/07