

HM25 MELT UNIT

Innovative new technology makes the GMS HM25-2, 4, 6 & 8 the best performing melt unit available.

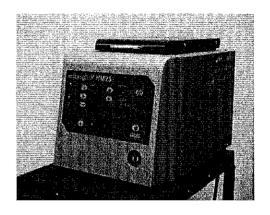
Unparalleled features and benefits make the HM25 a perfect choice for commercial printing, mailing and bindery applications.



25 pound advanced Teflon coated tank2, 4, 6 and 8 hose/gun configurationsDigitally controlled output pressure24 Hour Timer for auto start-up

HM25 series melt units are designed to provide ultra high performance, precise pressure and temperature control and outstanding features for fugitive, permanent, re-moistenable or pressure sensitive hot melt adhesives.

Our proprietary closed loop torque sensing motor drive system allows the unit to be digitally set to deliver an exact pressure. Feed back from an integrated pressure transducer is constantly monitored eliminating any variation in output pressure regardless of the load. The pressure can be set either manually on the melt unit or via the external GMS pattern controller. This pressure setting can be fixed or proportional to machine speed. There are many advantages of our new innovative pumping technology, it offers all of the advantages of both piston and gear pumps without any of the drawbacks. The fact that the pump motor only rotates when needed pumping only enough glue to offset



100 pound/hour melt and pump rate

Optional tank level detection with low level alarm

Energy-Miser, power conservation technology, a green solution!

consumption. This concept eliminates the primary disadvantage of a gear pump because there is no recirculation of the glue which causes molecular breakdown. Alternatively, since the pump output is digitally set and pressure maintained at an exact setting there is no momentary lapse in output pressure like with a piston pump designs

The new high performance Teflon coating used on the cast aluminum tank is rated for applications over 1000 degrees F and extremely resistant to abrasion. The 25 pound capacity tank holds enough glue to satisfy most graphic arts related applications. The tank casting design has been engineered for optimum heat transfer enabling the unit to melt a greater amount of adhesive with less energy.

The GMS HM25 hot glue unit is an integral part of a high tech GMS adhesive application system.





HM25 2, 4, 6 & 8 Head/Hose Melt Unit

Specifications:

Hydraulic Pressure ¹ 500 psi

Tank Capacity 25 Pound

Pump Rate¹ 100 Pound/Hour

Melt Rate 100 Pound /Hour

Working Viscosity 20,000 cps

Sensing Technology Thermistor, 10,000 ohm

Electrical Requirements 208-240VAC Single Phase 20 amp

Wattage 7,200 Watts

Dimensions 16.5" W x 22" L x 16" H

Weight 96 LBS

Note, The GMS microglue® hot glue system does not require pressurized air.

¹ Performance will be affected by higher viscosity adhesives. Recommended viscosity is 500 - 3000cps for optimum performance.

Features:

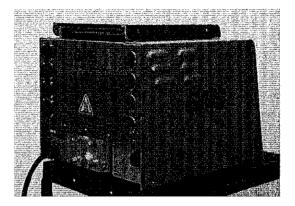
Each temperature zone which includes the tank, each hose and each applicator are independently set.

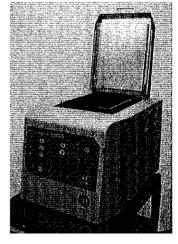
The variable torque gear pump drive system allows you to set the desired output pressure to an exact value and can be increased or decreased by using the up and down arrow keys.

The system has a built in 24 hour timer for automatic start-up and a stand by mode so that the system can be partially cooled down between jobs

HM25 units are field upgradable from 2 to 8 hoses/guns. Upgrade kits contain an output PC board assembly and a connection wire harness assembly. The system will automatically recognize the addition of the PC board and will reconfigure itself for the correct number of outputs.

The melt unit is securely mounted to a rolling stand assembly with a built in extension cord, lockable casters, an auxiliary mounting bar for storing unused applicators and two shelves for tools or adhesives.





microglue

428 Series 4 channel 8 output controller

The 428's 4 channels, 2 events per channel, 4 optical sensor inputs and 2 encoder inputs along with it's distance based stitch and 8 high power outputs provide outstanding performance at an affordable price.

Microglue® 428 features

Inch, centimeter or millimeter operation

Two individually programmable events per channel

Four optical sensor input

Programmable output to operate any type of device

Hot and cold glue gun purging

Optical sensor lockout feature

Patented output speed compensation

Hot melt pump control

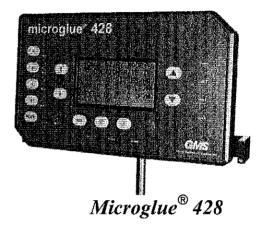
Shutter control for cold glue guns

Distance based stitch pattern control

Programmable output maximums frequency settings

Dual encoder inputs

Proportional control for glue pressure



The microglue® 428 is the simplest and easiest to use 4 channel pattern controller available on the market today. Each channel is capable of being programmed for two separate events each a line, dot or stitch pattern. The 428 high power constant current outputs can be configured to allow you to operate many different types of glue or tape applicators. The 428 allows real time adjustments to its outputs, making it simple for operators to get the exact pattern needed. The systems distance based pattern stitching capability allows each event to be programmed to apply multiple glue patterns. Features such as 4 optical sensor inputs dual encoder inputs proportional control of glue pressure and shutter and pump controls make the 428 a very versatile controller. Like all GMS pattern controlls the 428 incorporates our patented speed compensation, output cutoff speed and optical senor lockout

The 428 is a perfect fit for commercial folders, pocket folder gluers straight line folder gluers and conveyor / tipping or card inserting system



features.



428 4 channel 2 event 8 output pattern controller

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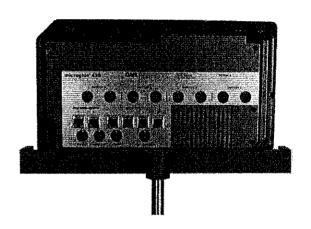
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Specifications:

GENERAL

CHANNELS
EVENTS PER CHANNEL
OUTPUTS PER CHANNEL
OPTICAL SENSOR INPUTS
ROTARY ENCODER INPUTS
SHUTTER CONTROL OUTPUT
BATCH KICKER OUTPUT
HOT MELT PUMP OUTPUT
SHUTTER CONTROL OUTPUT
PROPORTIONAL CONTROL OUTPUT



ELECTRICAL DATA

INPUT POWER
INPUT FREQUENCY
GLUE VALVE OUTPUT
SHUTTER CONTROL OUTPUTS
BATCH KICKER OUTPUT
PROPORTIONAL CONTROL

90 to 264 VAC 47 to 440 Hz 1.5 MAX Output current 12 VDC, 100 watts 12 VDC, 100 watts 0 to 10 VDC,

PROGRAMMING SPECIFICATIONS

PROGRAMMING RESOLUTION

MAXIMUM GLUE LINE LENGTH

MAXIMUM PRODUCT LENGTH

ACCURACY

JUB 100 inch, 2540 mm

ACCURACY

JUB 1100 inch, 2540 mm

PURGE FREQUENCYS
1000,500,333,250,200,150,100,75,50,25,10, or 5 Hz
OUTPUT FREQUENCY LIMITS
1000,500,333,250,200,150,100,75,50,25,10, or 5 Hz
MAXIMUM PRODUCT IN QUEUE
10 pieces between optical sensor and glue valve

DIMENSIONS

SIZE (H x L x W) 13.250 inch x 8.187 inch x 3.025 inch WEIGHT 5.6 lbs,

OPTICAL SENSOR—

OPERATING VOLTAGE 10 to 30 VDC
CONTINUOUS CURRENT 300 ma
RESPONSE TIME 1 ms
LIGHT SOURCE Infrared

ENCODER—

OPERATING VOLTAGE +5 VDC
RESOLUTION 600 pulses per revolution
SPRING MECHANISM Internal bi-directional
DESIGN Ultra compact

FRICTION WHEEL 6 inch Circumference polyurethane cast ring on an aluminum hub

CABLE 12 foot with modular RJ45 connector