

# Flexible Heated Hoses



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suppliers of specialised heated hoses  
to the manufacturing industry

If you are looking for specialists in the electric surface heating industry you need look no further than Flexible Heated Hoses!

Flexible Heated Hoses is one of the UK's leading manufacturers in electric surface heating. We offer a range of products and services to suit a wide variety of commercial and industrial requirements; from frost protection to maintaining elevated temperatures in both hazardous and non-hazardous environments.

Headquartered in the heart of England (Birmingham), Flexible Heated Hoses prides itself on custom satisfaction, thus offering market leading quality and a superior service. Through this sole principle we have developed a global cliental across Europe, North America and Asia.

The company is staffed by skilled personnel with years of experience implementing the design, manufacture, supply and installation of the following products:

- Heated Hoses
- Trace Heating Cables
- Heated Panels
- Insulated Heating Jackets
- Cartridge Heaters
- Band Heaters
- Radiant Heaters
- Drum Heating Systems
- Specialist Temperature Controllers
- Bespoke Control Panels
- Temperature Sensors & Controllers
- Surface & Air Sensing Thermostat

All above products are manufactured and assembled in our Birmingham factory. We are also able to manufacture specialist tools / moulds used in the plastics industry. This combined with our heating expertise enables us to offer our customers a complete engineering package.



### Heated Hoses

All our heated hoses are constructed using the highest quality materials and are designed to be flexible and strong. They are able to withstand high temperatures and pressures. All our heated hoses are sheathed with heating elements and contain temperature probes to ensure the fluid viscosity is maintained over long distances.

Features of our heated hoses:

- Flexible constructions
- Good temperature stability and heat distribution
- Bespoke manufacture to customers specification or existing pattern
- Built to withstand high temperatures and pressures
- Suitable for liquid and gas transfer.

Specification:

The standard specification for our heated hoses is shown below. However we can manufacture "any length, any size" and should you have any specific requirements outside the ranges specified below, please feel free to contact us!

Operating Voltage:	Typically 115V to 440V
Maximum Operating Temperature:	600°C
Temperature Probe:	Thermocouple thermisters, PT100, RT120
Tube Diameter:	Typically 1mm to 55mm but we can
Outer Jacket:	Nylon woven protective braid in black or grey
Inner Tube:	PTFE tube smooth bore or convoluted with up to 6 layers of Stainless Steel overbraiding

### We also manufacture SS convoluted cores

Heating Element:	Spiral wound resistive heating element
Thermal Insulation:	Silicon sponge closed cell for up to 220°C for higher temperatures nomex up to 600°C

Maximum Length:	6 in to 60-70ft
End Fittings:	Virtually any industry standard end fitting can be supplied
Maximum Operating Pressure:	Please discuss your requirements

Typical heated hose applications:

Hot melt machines | Wax transfer systems | Polyurethane foaming equipment  
 Insulated glass machinery | Gas analysis measuring equipment | Chemical dosing systems  
 Bitumen transfer | Heavy fuel oil systems | Food treatment and transfer | Packaging equipment

## Drum Heaters

As well as providing a range of belt drum heaters for drum sizes ranging from 25ltr to 250ltr we manufacture bespoke designs to suit your exact requirements. Our entire drum heaters are manufactured using high quality cupro-nickel woven fibreglass matt laminated between silicone impregnated glass fibre cloth. Our belt drum heaters are easy to fit and remove using spring retainers and can be supplied with/without temperature controllers.

Features of our belt drum heaters:

- Manufactured to be durable for industrial environments
- Resistant to fluids in common use
- Electrical heating elements encapsulated to protect against moisture
- Easy to fit
- Manufactured in sizes to suit customer requirements
- Supplied as a unit or installed on site to suit customers
- Optional thermostatic control

Specifications:

Operating Voltage:	110V-240V
Drum Sizes:	Standard drums in the range 25ltr - 250ltr or made to suit
Belt width:	Made to suit customer, standard width is 200mm
Lead length:	Made to suit customer, standard length 2m
Maximum Operating Temperature:	150°C

Typical drum heater applications:

- Maintaining viscosity for thick setting fluids
- Maintaining stable temperature for temperature sensitive fluids
- Frost protection (of tanks as well as drums)
- Ideal for adhesives, mastics, resins, paints, grease and foods

## Heated Jackets

All our heated jackets are made specifically to customers requirements. We offer a complete design service and work with customers to ensure that our heated jackets can be easily installed and removed for maintenance. Where necessary we create modular jackets for complex assembly installations. We can supply a range of materials to suit specific applications.

Features of our heated jackets:

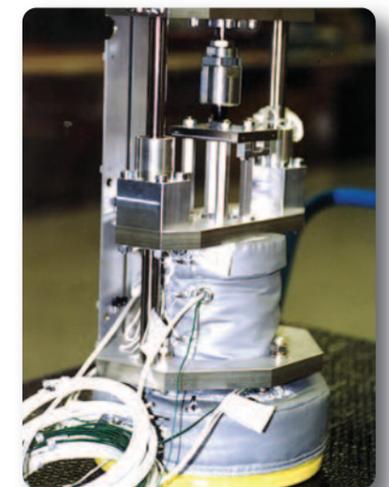
- Bespoke jackets fit virtually any product
- Complex products can be handled with modular designs
- We offer a range of materials to suit specific environments
- We can supply for self installation or offer a full installation service
- Integral or separate heating controls are available
- Designed for a wide range of environments and long life

Specification:

Operating Voltage:	110V-240V
Materials:	Fibreglass woven
Lead length:	Made to suit customer, standard length 2m
Maximum Operating Temperature:	150°C

Typical heated jacket applications:

- Heating of high viscosity fluids to improve flow rate during packaging
- Heating of valves in process pipe-work
- Heating drums and barrels
- Frost protection
- Heating machinery to improve start up times
- Injection moulding barrel heating



## Heater Control Panels

We can supply a range of control panels to provide accurate temperature control for all our surface heating elements. All our control panels use state of the art electronic temperature controllers manufactured by leading suppliers.

Our control panels enable precise temperature control, thus ensuring the exact temperature you require can be achieved. In addition they save you money by ensuring you provide no more heat than is necessary. All our control panels are manufactured to suit individual customer requirements. We can provide the sealing necessary to suit your environment and where necessary intrinsic safety protection can be provided.

Features of our control panels:

- Made to suit customers exact requirements
- Available to suit all industry standard voltages
- Sealing available up to IP65 + intrinsic safety where required
- Energy saving

Typical heater control panel applications:

Our heater control panels are suitable for any application where precise temperature control is required and/or the customer wishes to save energy.



## Flange Heating

In any process involving the transfer of liquids; at a constant temperature and over large distances, heat loss is a major problem. The heat loss around flanges can be particularly problematic which is why flange heating is important. Our range of flange heating solutions extends from surface heating elements to custom made heated jackets; or ID required the combination of both solutions.

Features of our flange heating:

All our flange heating solutions are specifically designed to suit customer requirements. We are able to design, manufacture and supply or we can provide an installation service.

Typical flange heating applications:

Anywhere where flanges are used in the transfer of fluids and temperature stability / frost protection is required.



## Heated Mats

All our heated mats are made out of flexible silicone rubber and designed for temperature maintenance in the process industry. They can be designed to virtually any pattern, are lightweight and highly flexible; which means they can be manufactured to fit vessels and products that are complex in shape and size. They are available in a wide range of supply voltages and power densities, and can be provided with or without temperature regulation.

Features of our heated mats:

- Lightweight
- Flexible
- Available for a wide range of industry standard voltages (AC or DC)
- Available in a range of power densities
- Waterproof construction suits indoor or outdoor use
- Can be supplied with or without temperature regulation
- Flat profile maintains good heat contact with the product being heated
- Can be permanently bonded to products or fitted temporarily

Specification:

Operating Voltage: Any industry standard voltage typically 12V DC to 440V AC  
Materials: Silicon Rubber  
Lead length: Any length required  
Maximum Operating Temperature: -40°C to +180°C



Typical heated mat applications:

- Chemical and pharmaceutical process industry
- Heating hoppers
- Propagators and incubators
- Anti-icing and de-icing
- Storage tanks and vessels, particularly irregular shapes
- De-humidification of motors.

## Trace Heating - Surface Heating

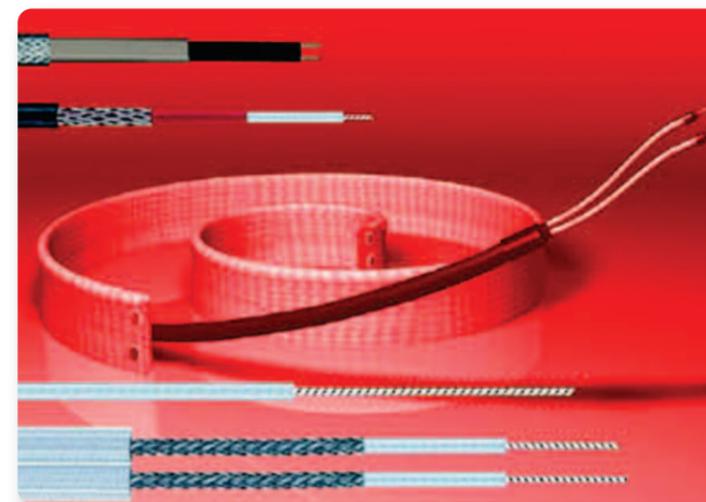
One of the main applications for trace heating is to maintain specific temperatures of pipes or vessels by providing surface heating. It is usually provided in conjunction with insulation to minimize heat loss. Trace heating can also be used to provide electrical heating to areas that benefit from additional heating, for example under-floor heating for comfort and heating of roads and pathways. We can provide trace heating on a supply only basis or alternatively offer a full installation service. We are able to manufacture, supply and fit regulated and unregulated trace heating for virtually any application. All our trace heating can support a wide range of industrial electrical supplies. The materials used are selected for ease of installation and long life.

Features of our trace heating – surface heating:

- Flexible trace heating cables
- Supports a wide range of voltages
- Installation service available
- Open loop or self regulating trace heating available
- Thermostatic control results in energy efficiency

Specification (trace heating – surface heating):

Operating Voltage: Standard Voltages 12V-415V other voltages upon request  
Materials: Primary insulation typically PTFE or Silicon.  
Various secondary insulation materials available to suit environment.  
Max Length: Virtually unlimited  
Maximum Operating Temperature: Typically 250°C also available up to 1000°C



Typical trace heating - surface heating applications:

- Maintain temperatures of hot liquid service pipes e.g. viscous fluid transfer
- Frost prevention of service pipes, agricultural water supplies, fire hose mains and sprinklers
- Surface heating of buried pipes
- Snow and ice protection of paths, driveways and staircases
- Under-floor heating.

Our Hotmelt machines are designed to dispense glue via a heated hose application. We manufacture a range of Hotmelt machines which increase in hopper capacity. In addition we are also able to design and manufacture Hotmelt machines to your specifications and should you require more information, feel free to contact us.

### FHH 1000 Hotmelt Machine

#### Technical Characteristics

- 1k/min output
- 30Kg hopper capacity
- 3 temperature controllers
- Digital readout of all temperature zones
- Tamper proof factory set operating temperatures
- Programmable temperature controls
- Progressive sealant heating hopper, pump hose and gun
- 'Cool to touch' moulded gun handle
- 3 metre hose
- Positive displacement gear type pump
- Under temperature on all zones
- Miniature circuit breaker protection
- 12 month warranty

#### Technical Data

Voltage	220/240V
Frequency	50/60Hz
Control voltage	12v
Amperes	10amp/2.2KW
Electric Motor	0.25KW
Length	720mm
Width	410mm
Height	940mm



### FHH 2000 Hotmelt Machine

#### Technical Characteristics

- 2k/min output
- 50Kg hopper capacity
- 4 temperature controllers
- Digital readout of all temperature zones
- Tamper proof factory set operating temperatures
- Programmable temperature controls
- Progressive sealant heating hopper, pump hose and gun
- 'Cool to touch' moulded gun handle
- 3 metre hose
- Positive displacement gear type pump
- Under temperature on all zones
- Programmable 7 day timer
- Miniature circuit breaker protection
- 12 month warranty

#### Technical Data

Voltage	220/240V
Frequency	50/60Hz
Control voltage	12v
Amperes	13amp/3KW
Electric Motor	0.55KW
Length	840mm
Width	560mm
Height	1240mm





Our Geared Pumps are manufactured in-house  
for Glue Dispensing Machines.

We can manufacture any specification of  
Geared Pump.

Should you require any further information,  
feel free to contact us.

