Company Profile

HeatMent™ has been export-oriented and targeting on overseas market demand since its establishment in 2004. HeatMent™ utilizes top grade and export-oriented material in manufacturing heat treatment equipment, heating element and accessories. Due to long service to oversea projects operated by a team of experts and engineers, HeatMent™ provides expert heat treating services and great customer satisfaction and has successfully outstood as a reliable company in supplying heat treating equipment and accessories, both home and abroad.

We offer a wide variety of products and services for heat treating industry, each specifically developed to meet the complex needs of our clients.
Ceramic Heating Element

Flexible Ceramic Pad (FCP) heater is manufactured by multi-strand quality 80/20 Nichrome heating wire through passages within interlocking ceramic beads, complete with two electrically insulated camlock, which is protected from being heated by cold pure nickle wire that connects the heating wire. The alumina ceramic beads are made of sintered 95% Alumina Ceramics. It enjoys high temperature resistance, excellent insulating property, and efficient thermal conductivity and heat transfer, which provides FCP heaters with exceptional electrical insulating and thermal conductivity qualities. It can be frequently used up to fifty times at ambient of 1050°C.

Industry We Serve
Offshore/Onshore Oil and Gas Industries, Power Generating Stations, Refineries, Fabrication and Welding Shops, Ship Building and Repair, Pulp & Paper Mills... e. t. c.

Flexible Ceramic Pad heaters (FCP) are generally available to two standard volts: 80VAC, and 60VAC and using different connectors among different countries, one choice is Brass Camlock Connector, the other choice is Welding Cable Plug (System DINSE). The specification is referred to Table below.

### Flexible Ceramic Pad heater (FCPs) - 80V heaters

<table>
<thead>
<tr>
<th>HMT Code</th>
<th>Type</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Rating (kW)</th>
<th>Current (amp)</th>
<th>Voltage (volt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMT-803</td>
<td>CP3</td>
<td>75</td>
<td>991</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-804</td>
<td>CP4</td>
<td>102</td>
<td>125</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-806</td>
<td>CP6</td>
<td>152</td>
<td>135</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-808</td>
<td>CP8</td>
<td>203</td>
<td>198</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8010</td>
<td>CP10</td>
<td>254</td>
<td>120</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8012</td>
<td>CP12</td>
<td>305</td>
<td>248</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8015</td>
<td>CP15</td>
<td>380</td>
<td>203</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8018</td>
<td>CP18</td>
<td>457</td>
<td>165</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8021</td>
<td>CP21</td>
<td>535</td>
<td>145</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8024</td>
<td>CP24</td>
<td>610</td>
<td>125</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8029</td>
<td>CP29</td>
<td>740</td>
<td>100</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8033</td>
<td>CP33</td>
<td>840</td>
<td>85</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
<tr>
<td>HMT-8036</td>
<td>CP36</td>
<td>915</td>
<td>80</td>
<td>3.6</td>
<td>45</td>
<td>80</td>
</tr>
</tbody>
</table>

### Flexible Ceramic Pad heater (FCPs) - 60V heaters

<table>
<thead>
<tr>
<th>HMT Code</th>
<th>Type</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Rating (kW)</th>
<th>Current (amp)</th>
<th>Voltage (volt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMT-603</td>
<td>CP3</td>
<td>75</td>
<td>670</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-604</td>
<td>CP4</td>
<td>100</td>
<td>505</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-606</td>
<td>CP6</td>
<td>150</td>
<td>335</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-608</td>
<td>CP8</td>
<td>205</td>
<td>250</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-6010</td>
<td>CP10</td>
<td>255</td>
<td>210</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-6012</td>
<td>CP12</td>
<td>305</td>
<td>165</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-6015</td>
<td>CP15</td>
<td>380</td>
<td>145</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-6016</td>
<td>CP16</td>
<td>410</td>
<td>125</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-6018</td>
<td>CP18</td>
<td>460</td>
<td>125</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-6021</td>
<td>CP21</td>
<td>535</td>
<td>105</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-6024</td>
<td>CP24</td>
<td>610</td>
<td>85</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>HMT-6026</td>
<td>CP26</td>
<td>610</td>
<td>85</td>
<td>2.7</td>
<td>45</td>
<td>60</td>
</tr>
</tbody>
</table>
### Ceramic Heating Element

#### 4 Bank Channel Heater

<table>
<thead>
<tr>
<th>HMT Code</th>
<th>Description</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Volts (V)</th>
<th>Power (kW)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMT3025</td>
<td>Single Channel</td>
<td>70</td>
<td>400</td>
<td>30</td>
<td>1.65</td>
<td>2.5</td>
</tr>
<tr>
<td>HMT6039</td>
<td>Single Channel</td>
<td>70</td>
<td>720</td>
<td>60</td>
<td>3.3</td>
<td>3.9</td>
</tr>
<tr>
<td>HMT60155</td>
<td>4-Bank channel</td>
<td>360</td>
<td>720</td>
<td>60</td>
<td>13.2</td>
<td>15.5</td>
</tr>
<tr>
<td>HMT110155</td>
<td>4-Bank channel</td>
<td>360</td>
<td>720</td>
<td>110</td>
<td>13.2</td>
<td>15.5</td>
</tr>
<tr>
<td>HMT240155</td>
<td>4-Bank channel</td>
<td>360</td>
<td>720</td>
<td>240</td>
<td>13.2</td>
<td>15.5</td>
</tr>
</tbody>
</table>

#### Flexible Insulated Preheaters (FIPs)

<table>
<thead>
<tr>
<th>HMT Code</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Volts (V)</th>
<th>Power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMT60101</td>
<td>101</td>
<td>775</td>
<td>60</td>
<td>2.7</td>
</tr>
<tr>
<td>HMT60127</td>
<td>127</td>
<td>604</td>
<td>60</td>
<td>2.7</td>
</tr>
<tr>
<td>HMT80101</td>
<td>101</td>
<td>1024</td>
<td>80</td>
<td>3.6</td>
</tr>
<tr>
<td>HMT80127</td>
<td>127</td>
<td>793</td>
<td>80</td>
<td>3.6</td>
</tr>
</tbody>
</table>

#### Tank Track Heater

<table>
<thead>
<tr>
<th>HMT Code</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Volts (V)</th>
<th>Power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMTTITH60</td>
<td>75</td>
<td>670</td>
<td>60</td>
<td>2.7</td>
</tr>
<tr>
<td>HMTTITH80</td>
<td>75</td>
<td>940</td>
<td>80</td>
<td>3.6</td>
</tr>
</tbody>
</table>

#### 220V, 240V & 255V - Ceramic Pad Heater

<table>
<thead>
<tr>
<th>HMT Code</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Volts (V)</th>
<th>Power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMT255115</td>
<td>710</td>
<td>336</td>
<td>255</td>
<td>11.5</td>
</tr>
<tr>
<td>HMT240108</td>
<td>660</td>
<td>336</td>
<td>240</td>
<td>10.8</td>
</tr>
<tr>
<td>HMT22099</td>
<td>610</td>
<td>336</td>
<td>220</td>
<td>9.9</td>
</tr>
</tbody>
</table>

Alumina Ceramic Beads  
Brass Camlock Connector  
Heating Wire

---

**HEATMENT**

**PWHT EQUIPMENT AND CONSUMABLES**

Add: No.188, South Changjiang Rd., Shanghai, China 200439  
Tel: +86 21 5661 3839  
Url: www.heatment.com  
E-mail: sales@heatment.com
Alumina Ceramic Beads

95% Alumina Ceramic Beads is manufactured by dry press method and sintered at temperature up to 1650°C. The production is under careful material selection of high grade alumina spray drying granulation from what is called as calcined alumina, thus the stability is maximally ensured. It enjoys high temperature resistance, excellent insulating property, and efficient thermal conductivity and heat transfer.

Thanks to its excellent characteristics, the ceramic beads is widely used as components of ceramic heating pad at operation of pre- and post-weld heat treatment, welding process, stress-relieving, ship-building, other heat-resistance environment.

Compared with hot press method in the market, it proves higher density, better surface finish and better uniformity, and can be repeatedly used much longer.

**Technical Parameter**

- **Alumina Content:** 95%
- **Fired Density:** 3.65-3.70 g/cm³
- **Grain Size:** 6μm
- **Mohs Hardness:** 9
- **Rockwell Hardness:** 78(R45N)
- **Compressive Strength:** 2000 MPa
- **Flexural Strength:** 320 Mpa (ASTM C1161, 3 point)
- **Young’s Modulus:** 325 Gpa
- **Thermal Conductivity:** 21 W/m²K

**Heatment**

Add: No.188, South Changjiang Rd., Shanghai, China 200439
Tel: +86 21 5661 3839
Url: www.heatment.com
E-mail: sales@heatment.com

**Main Body Beads**

**Main Body Beads with hole**

**Male End Beads**

**Female End Beads**

**Small Tail Beads**

**Tank Track Bead**
Connectors

In-line Brass Camlock Connectors

60A Male Brass Camlock with Regular Sleeve and Pin
60A Female Brass Camlock with Regular Sleeve and Pin
300A Male Brass Camlock with Regular Sleeve and Pin
300A Female Brass Camlock with Regular Sleeve and Pin

60A Male Brass Camlock with High Temp. Sleeve and Pin
60A Female Brass Camlock with High Temp. Sleeve and Pin
300A Male Brass Camlock with High Temp. Sleeve and Pin
300A Female Brass Camlock with High Temp. Sleeve and Pin

Panel Mounted Brass Camlock

300A Female Panel Mounted Camlock Connector
300A Male Panel Mounted Camlock Connector
60A Female Panel Mounted Camlock Connector
60A Male Panel Mounted Camlock Connector

DINSE Welding Connectors

10-25mm² Dinse Welding Plug
10-25mm² Dinse Welding Socket
35-50mm² Dinse Welding Plug
35-50mm² Dinse Welding Socket
50-70mm² Dinse Welding Plug
50-70mm² Dinse Welding Socket
70-95mm² Dinse Welding Plug
70-95mm² Dinse Welding Socket

Industrial Connectors

110V Plug & Socket
240V Plug & Socket

Type K Thermocouple Connectors

- Thermoplastic body and ceramic material body are both available.
- Solid pins and hollow pins are both available. Well designed body ensure good insulation inside, and well designed pins construct ensures good contact.
- Maximum ambient temperature for thermoplastic body continuous usage
Heating Wire & Cold Tail Wire

Nichrome Heating Wire

Material: NiCr80/20, NiCr60/15
Specification: Overall Diameter : 2.8mm
No of Strands : For 19 Strands, 19/0.56mm
For 37 Strands, 37/0.37mm
Packing: 500m/roll

High Temp. Heating Wire

Material: 0Cr23Al5
Specification: Overall Diameter : 2.83mm
No of Strands : For 19 Strands, 19/0.574mm
Packing: 500m/roll

Stranded Cold Tail Wire

Material: 212 Pure Nickle
Specification: overall diameter : 3.0mm
No of Strands : 19 Strands, 19/0.61mm
Packing: 500m/roll, 100m/roll

Heater Repair Kit

Core heating wire welded with cold tail wire, and comes with two 60A male camlock or one male and female camlock

80V heater repair kit
60V heater repair kit
Power Cables & Splitter Cables

**Welding Cable**

Our heavy-duty flexible welding cable is highly performance and excellent flexibility to last longer applications.

The welding cable is heat and oil resistant and flame retardant (HOFR), double insulated, and best to carry the required current. The operator can easily maneuver during the welding process. It is suitable for all kinds of welding generators.

- Jacket: PVC, or Rubber, double insulated
- Specification: 16mm², 25mm², 50mm², 70mm²
- Color: Orange, Black, Blue
- Packing: 15m/roll, 25m/roll, 30m/roll, or 100m/roll

**Triple Cable Sets**

The triple cable set consists of two lengths of heat and oil resistant and flame retardant (HOFR), double insulated copper cable complete with two 300 amp female camlock connectors on one end and two 300 amp male camlock connectors on the other end. Running alongside the copper cable is a length of compensating cable which has a thermocouple plug on one end and a thermocouple socket on the opposite end.

- Specification: 16mm², 25mm² Welding Cable
- Length: 15m, 25m, 30m

**Single Power Cable:**

- 16mm² 135A welding cable, 300A camlock,
- 25mm² 185A welding cable, 300A camlock,

Length: 15m, 25m, 30m

**Splitter Cables**

- Material: 16mm² 135A Welding Cable
  - 60A female camlock connector
  - 300A male camlock connector

- Specification: 2 way splitter cable set
  - 3 way splitter cable set
  - 4 way splitter cable set
  - 5 way splitter cable set
Thermocouple Wires & Compensating Cables

Type K Thermocouple Wires

Type K thermocouple wire, insulated with high temperature glass braid, is used to convert the thermal energy at the hot junction of thermocouple to an electrical mV signal which can then be used by temperature control and recording instruments to accurately record and control the temperature of the item being heat treated.

- Type K - Grade A, Accuracy +/- 1.1°C
- Two core conductors insulated by glass-fiber twisted together
- Material: 2x0.71mm, or 2x0.65mm NiCr /NiSi
- Max Working Temperature: 704°C
- Jacket Colour: Red (-) / Yellow (+), or Green(-) / White(+)

Type K Thermocouple Wires

- Grade A, Accuracy +/- 1.5°C
- Laid flat heat-resistant PVC covered conductors with an overall sheath of PVC (-25 ~ 105°C)
- Material: 2 x 7/0.2mm NiCr/NiSi
- Max Working Temperature: 105°C
- Jacket Colour: Outer - Green; Inner Green (-) and White (+)

Type K Thermocouple Compensating Cable

- PVC Double Insulated
- Materials: 2 x 13/0.2mm Copper/Constantan
- Max Working Temperature: 105°C
- Jacket Colour: Outer - Red, Inner - Blue (-) and White (+)
The CHINO EH3000 Series is a dot pring type analogue recorder sized 288x288mm with 180mm width chart. Recording point are 5 kinds, 1 point to 12 points and records clearly temperature, pressure, flow, level, etc. at regular interval.

The CHINO EH100 series analogue Chino temperature recorder has been selected as ideal for the rigorous of site heat treatment. The recorder design is potentiometric, self-compensating for ambient temperature and operates over the temperature range 0-1200°C.

The internal power supply and chart drive switches are readily accessible. The chart drive can be varied to suit the heat treatment specification or conditions. The temperature charts extend for up to 400 hours for a chart speed of 50mm/hour. The scale and chart are illuminated.

The recorders can be housed within a rugged steel casing and is fitted with rear polarised socket connections for the widely used Type K thermocouple to compensating lead connections, to prevent reading errors. A flying lead is also fitted to the rear of the case to for the 110VAC input power from the heat treatment transformer.
Ceramic Fiber Blanket

Ceramic Fibre 96kg Density, 25mm x 610mm x 96kg x 7.20m
Ceramic Fibre 96kg Density, 50mm x 610mm x 96kg x 3.60m
Ceramic Fibre 128kg Density, 25mm x 610mm x 128kg x 7.32m
Ceramic Fibre 128kg Density, 50mm x 610mm x 128kg x 3.66m

Silicone Cloth

0.65mm x 1m x 50m/100m
0.76mm x 0.92m x 50m/100m
1mm x 1m x 50m/100m

S/S Wire Mesh

Stainless Steel Mesh 100mm Wide, 10kg Roll
Stainless Steel Mesh 127mm Wide, 10kg Roll
Stainless Steel Mesh 330mm Wide, 15kg Roll
Stainless Steel Mesh 635mm Wide, 25kg Roll

Meshed Mat

128kg Density 300mm x 300mm x 25mm
128kg Density 300mm x 600mm x 25mm
128kg Density 300mm x 900mm x 25mm
128kg Density 600mm x 600mm x 25mm
128kg Density 600mm x 900mm x 25mm
128kg Density 600mm x 1200mm x 25mm
128kg Density 600mm x 1800mm x 25mm

Insulation Pin Welding Machine
Banding Machine
S/S Banding Straps
S/S Banding Buckles
Soft Black Iron Tie Wire

Thermcouple Attachment Unit
Link Set
Welding Cable
Contactors

Copper Shim
Chart Paper
Magnet
Welding Ferrule
SHANGHAI HEATMENT TECHNOLOGY CO., LIMITED
No. 188, South Changjiang Rd., Shanghai, China
Zip: 200439
Tel: +86 21 5661 3839  Fax: +86 21 5631 3937
Mob: +86 156 1802 9291
Email: sales@heatment.com
Website: www.heatment.com