

Robust Band/Flat Heaters

Robust Mica Bands, Ceramic Bands and Flat Heaters



Reduced maintenance time and unskilled staff regularly causes band heater damage. Damaged bands are returned for repair or even replaced increasing maintenance costs. With increased pressure on spares holdings and maintenance budgets, spares are often unavailable. Lost production delays delivery and reduces profitability.

Robust Bands works for die tooling in environments with frequent die changes such as profile and pipe extrusion industries

Robust Heaters are available for mica bands, ceramic bands and flat heaters. A beefed-up design helps prevent damage from dropping the die, removing plastic spillage and cable damage. It is cost effective in the long term as only the band inner needs to be replaced. The pay-off period is normally within a year.

Calculation of maximum power rating

Robust Band (Mica):

Robust Band (Ceramic):

Robust Band (Flat Mica):

Robust Band (Box Mica):

$$P \text{ max (Watts)} = \text{Width (mm)} \times \text{Diameter (mm)} \times (3.14 \times 0.035)$$

$$P \text{ max (Watts)} = \text{Width (mm)} \times \text{Diameter (mm)} \times (3.14 \times 0.055)$$

$$P \text{ max (Watts)} = \text{Width (mm)} \times \text{Length (mm)} \times 0.035$$

$$P \text{ max (Watts)} = \text{Width (mm)} \times \text{Circumference (mm)} \times 0.035$$

The power rating of the element does have an influence on it's lifespan. We therefore recommend that a lower power rating is chosen if the process allows for this.

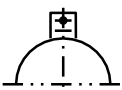
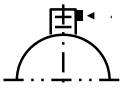
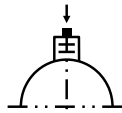
Mounting, Storage and Commissioning

Mounting: Good thermal contact between the element and metal surface to be heated is essential. Warping of elements will result in air pockets, causing hot spots and possible failure of the element. It is therefore important that elements are clamped on tightly and that clamps are retightened once elements have reached operating temperature.

Storage and Commissioning: Elements are susceptible to moisture and should be stored or used in a dry environment. It is recommended that elements are heated up gently after a prolonged period out of commission. This allows moisture to escape and prevents damage to the elements. Some temperature controllers have a "soft start" feature, but a similar result is achieved by turning the temperature controller down initially.

Robust Ceramic and Mica Band Ordering Code and Options

When ordering please provide the product code as detailed below, also *specify element rating (Watts), supply voltage, length of cable (if applicable), inner dimensions (diameter, width...) and a sketch with details of holes, cut-outs, the position of terminations, etc.* Minimum band diameter is 80mm.

UH	Type	Termination	Cable Entry	Cable Position
	BM = Mica band 	1S = Kettle plug (15A, round pin) *  Radial Tangential/Axial	A = Axial 	O = Opposite gap 
	BC = Ceramic band 	ES = 3 flat pin plug (15A) *  Radial Tangential/Axial	T = Tangential 	3 = 90° to gap 
	BS = Semi band 	2S = Cable termination including connector block (15A)**  Radial Tangential/Axial	R = Radial 	9 = 270° to gap 
	BT = 3/4 band 	6S = Small termination with braided cable (15A)***#  Angled Radial Tangential/Axial		X = Other (specify) 
	BH = Hinged band 	Three phase termination**:  CS = 60 x 80 x L (mm) 35A / 24 kW max. 7S = 55 x 55 x L (mm) 22A / 15 kW max.	Options Air Jacket  Eco-Band 	 Thermocouple Bracket TB6 = 1/4" BSP TB7 = 3/8" BSP Barrel Adapters B12 = Ø12 B/A B13 = Ø13 B/A Clamps SL = spring loaded clamp QR = quick re-release clamp Retrofitted to your band heater to reduce energy consumption.
* Please refer to accessory page to order matching plugs/sockets ** Cable not included *** Specify cable length when ordering # Cable not shown		X = Other (please specify on drawing)		

Robust Flat Element Ordering Code and Options

When ordering please provide the product code as detailed below, also *specify element rating (Watts), supply voltage, length of cable (if applicable), inner dimensions (diameter, length, width...)* and a sketch with details of holes, cut-outs, the positions of terminations, etc. Minimum width is 35mm.

Type	Termination
UH	
QM = Mica box with 2 terminations and 2 clamping plates 	Kettle plug (15A)*: 1SR  1ST 
QH = Mica box with 1 termination and 2 clamping plates 	Flat pin kettle plug (15A)*: ESR  EST 
QF = Mica box with 1 termination and 4 clamping plates 	Cable and connector block (15A)**: 2SR  2ST 
QG = Mica box with 2 terminations and 4 clamping plates 	Cable termination (15A)***#: 6SR  6ST 
Options S3 = 9mm stainless steel backing plate S6 = 6mm stainless steel backing plate M3 = 9mm mild steel backing plate M6 = 6mm mild steel backing plate TB6 = 1/4" TC Bracket TB7 = 3/8" TC Bracket	Three phase termination (15A)**:  CSR = 60 x 80 x W (mm) 35A / 24 kW max. 7SR = 55 x 55 x W (mm) 22A / 15 kW max.
* Please refer to accessory page to order matching plugs/sockets ** Cable not included *** Specify cable length when ordering # Cable not shown	
X = Other (please specify on drawing)	