

THE EREMA HEATING ELEMENT TYPE M

The EREMA M type is unique in that its cold zones are at 90 degrees to the hot zone allowing for mounting in almost any position such as difficult to heat areas like furnace doors. M type elements can be easily adjusted to increase or decrease the distance between the hot zone and the product being heated.

1 Physical Characteristics

Type M is made from the same material as that of type E or F.

Physical characteristics	Type M
Bending strength(MPa)	50
Porosity(%)	23.0
Apparent specific gravity	3.21
Bulk specific gravity	2.48
Resistivity of hot zone(Ω cm)	0.08
Max.furnace temperature($^{\circ}$ C)	1400

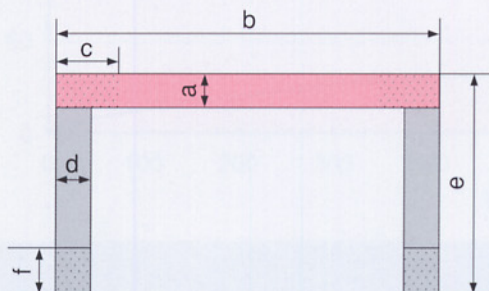
2 Shape

Outside diameter : ϕ 12, 14, 16, 20, 25, 30mm

Length : 400mm or less \times 2000mm or less, or 2000mm \times 400mm or less

(Hot zone length \times cold end length)

3 Dimensional Tolerance



Length of non-heating zone (c) is approximate 1.5 times hot zone diameter (a).

● Dimensional Tolerance

		Symbols	Tolerance	Remarks
Hot zone	Outside diameter	a	± 1 mm	
	Length	b	$\pm 1.5\%$	
Cold end	Outside diameter	d	± 1 mm	
	Length	e	$\pm 1.5\%$	
Metallikon length		f	± 5 mm	

4 Electrical Specifications

Electrical specifications for type M are the same as those for type E of the same size.
Maximum furnace temperature is 1400°C

5 Precautions

(1) Hole diameter

As with all SiC elements a minimum clearance is required around the cold ends to allow for element expansion and any movement in the furnace refractories. In the case of M type a hole must be twice the cold end diameter, as expansion in the hot zone during use will cause a corresponding increase in the distance between the two cold ends. It is critical to ensure that no stress should be applied to the joints between hot zone and cold ends.

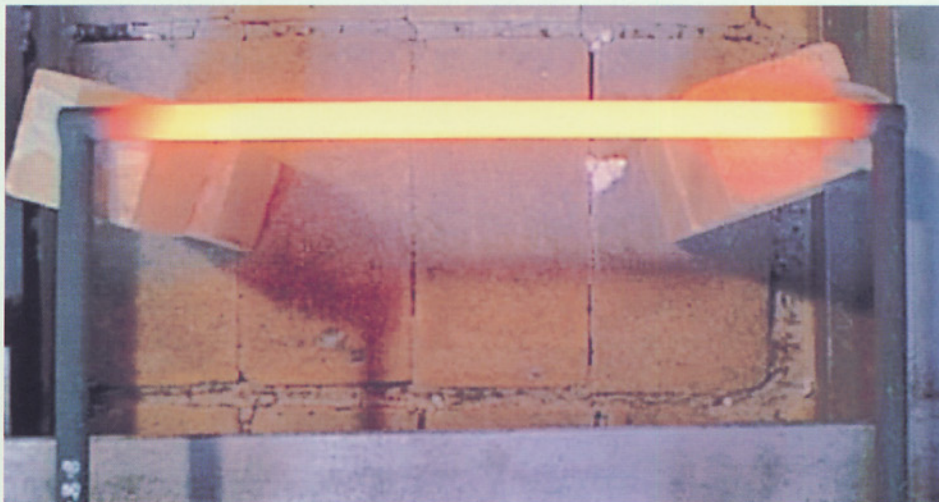
(2) Installation

Similar to a bar-shaped heater, type M must have a certain amount of play to allow thermal expansion.

Horizontal installation: Hot zone tends to lower if cold end is short. To avoid this, it is required to install cold end slightly lower than hot zone.

Vertical installation: Type M can be vertically installed using pins passing through cold ends, similar to types U and W.

6 Heating Picture



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