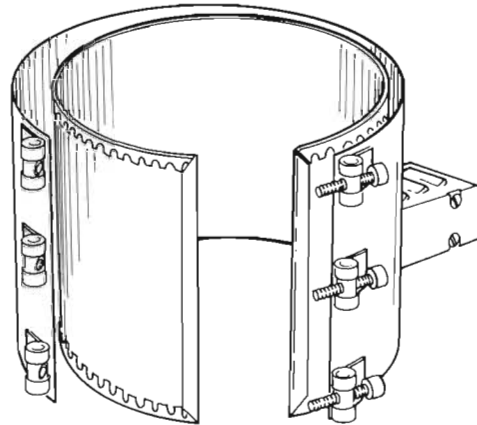


HELIOS BAND HEATERS

FLEXIBLE BAND HEATERS MICA INSULATED TYPE

Helios Flexible Band Heaters are designed to enable both installation and removal of the heater, without disturbing or having to previously remove other heaters or fittings.



CONSTRUCTION AND LIMITATIONS

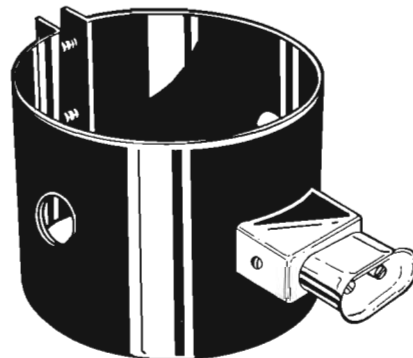
Manufactured using a nickel-chrome resistance wire, wound onto a mica insulated former, the inner heating band is formed into a mild steel outer sheath. A stainless steel outer clamp band is provided with swivel toggles enabling continuous operation to 300°C with maximum recommended wattage to 46.5 kW/m².

ELECTRICAL TERMINATION

A variety of electrical terminations are available as shown on page 21. Consult with our factory for helpful advice.

WELDED BAND HEATERS MICA INSULATED TYPE

Helios Welded Band Heaters are designed for applications where flexible band heaters are not suitable, usually to eliminate the ingress of liquids or materials from contaminating the inner windings of the heater.



CONSTRUCTION AND LIMITATIONS

Manufactured using a nickel-chrome resistance wire, wound onto a mica insulated former, the mild steel outer covers are welded together forming totally sealed edges. Continuous operation to 300°C is achievable, with maximum wattage to 46.5 kW/m².

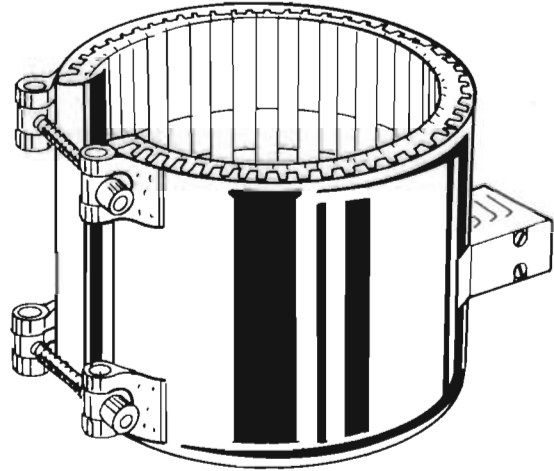
ELECTRICAL TERMINATION

A variety of electrical terminations are available as shown on page 21, consult with our factory for helpful advice.

HELIOS BAND HEATERS

FLEXIBLE CERAMIC BAND HEATERS

The Helios range of Flexible Ceramic Heaters are designed for applications where temperatures to 450°C are required, or where watts densities to 60 kW/m² are needed.



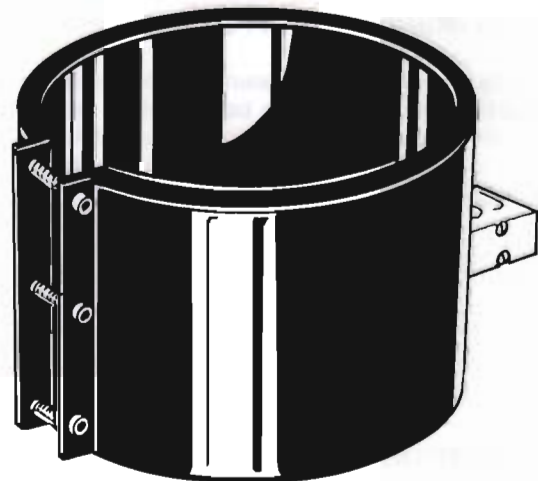
Manufactured using individual Ceramic Links, allows the heater to be opened out over the barrel, without disturbing or having to previously remove other heaters.

A stainless steel outer clamp band with swivel toggles provides adequate clamping, and a range of electrical terminations are available as shown on page 21.

Consult with our factory for helpful advice, particularly with wattage to temperature ratios.

WELDED CERAMIC BAND HEATERS

Helios Welded Ceramic Band Heaters are designed for applications where Flexible Ceramic Band Heaters are not suitable, usually to eliminate the ingress of liquids or materials from contaminating the inner windings of the heater.



CONSTRUCTION AND LIMITATIONS

A spiralled nickel-chrome coil is supported on Ceramic Formers and encased in a welded steel or stainless steel sheath, and vibrates filled with magnesium oxide as a heat transfer medium.

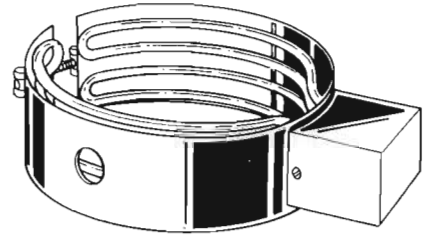
Continuous operation to 450°C is achievable, and maximum wattage to 60 kW/m².

Consult with our factory for advice on wattage to temperature ratios.

HELIOS BAND HEATERS

TUBULAR TYPE BAND AND NOZZLE HEATERS

Helios tubular type band heaters have been developed as a heavy duty heater providing greater life, high temperature capabilities, and performance, to operate under extreme conditions. It has been found to be most resistant to damage from plasticised materials, mechanical abuse which, along with lack of adequate clamping, has proved to be the greatest cause of premature failures in conventional heaters.

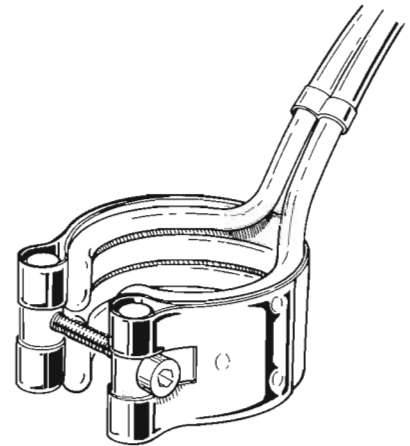


TYPICAL USES

On barrels and nozzles of plastics injection moulders and extrusion machines, heat treating of piping, and on other process equipment requiring uniform heat and high temperatures.

CONSTRUCTION

Helios tubular band and nozzle heaters consist of a mineral insulated tubular heater formed to suit the required diameter, and a stainless steel clamp ensures a tight fit for better heat transfer. Termination can be screw terminals, flexible leads or a two pin plug fitting.



SIZES

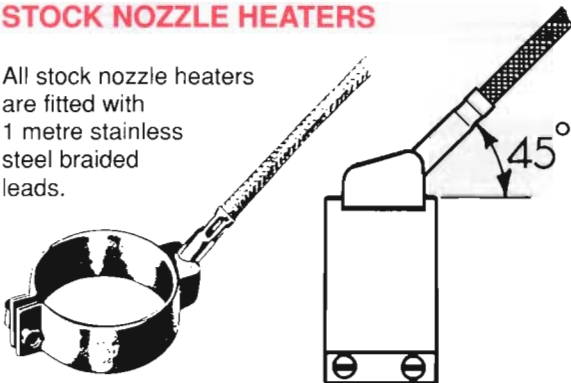
These heaters are available in a range of diameters from 25 mm (1") min. to 915 mm (36") max. and widths from 25 mm (1") min. to 305 mm (12") max.

STOCK NOZZLE

TN250 – 32 mm (1¼") dia. x 28 mm (1⅛") wide 240V 250W

STOCK NOZZLE HEATERS

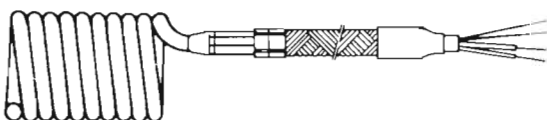
All stock nozzle heaters are fitted with 1 metre stainless steel braided leads.



DIAMETER	WIDTH	WATTS	DIAMETER	WIDTH	WATTS
30	20	80	38	40	200
32	30	125	40	30	150
32	40	200	40	40	200
32	50	220	40	50	250
35	30	125	45	30	175
35	40	150	45	50	260
38	20	100	50	40	275
38	30	150	50	50	300

TURK & HILLINGER MICRO TUBULAR NOZZLE HEATERS FOR HOT RUNNERLESS DIES.

Formed at Helios to client's specifications for new die work or replacement of existing heating.



WITHOUT THERMOCOUPLE			WITH THERMOCOUPLE		
PT. No.	WATTS	LENGTH	PT. No.	WATTS	LENGTH
129 930	315	550	129 900	315	550
129 931	400	750	129 901	400	750
129 932	500	950	129 902	500	950
129 933	630	1150	129 903	630	1150

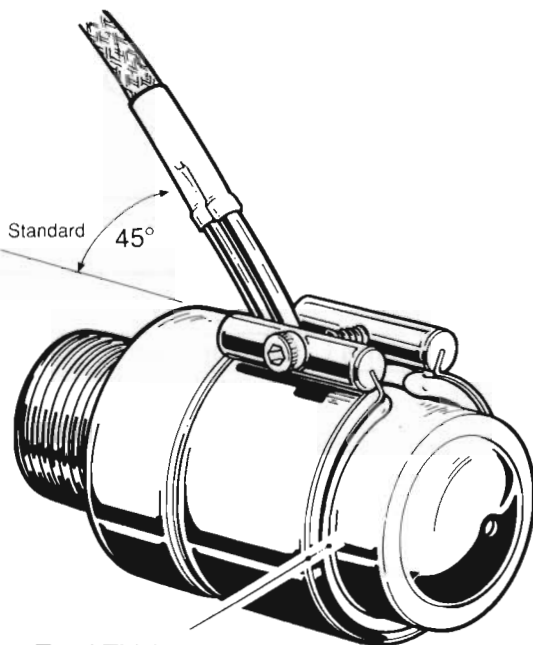
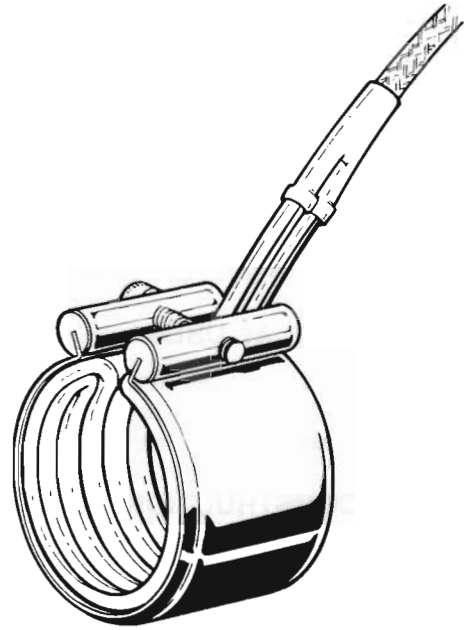
HELIOS MINI TUBULAR HEATERS

THE HELIOS MINI TUBULAR HEATER

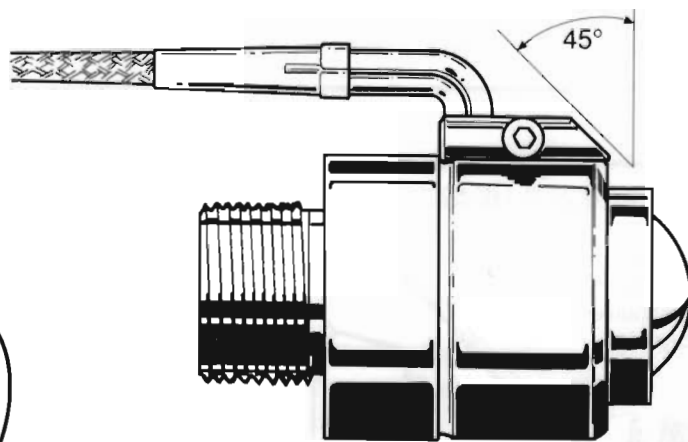
The Helios Mini Tubular Heater was developed specifically to satisfy the rapid advances in modern plastics technology. With the increased use of engineering and microwave plastics, and the requirement of temperatures in excess of 300°C, Helios saw the need for a low profile magnesium oxide insulated heater.

The result is a 4.1 mm diameter stainless steel tubular nozzle heater capable of 80% greater heat output than conventional mica type heaters, and it's made in Australia.

Each stock heater is fitted with 1 metre braided leads.



5mm Total Thickness



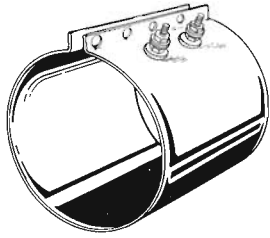
Optional cut away lug and lay back lead configuration

4MM DIA TUBULAR NOZZLES @ 50kW/M2					
Dia	Width	Wattage	Dia	Width	Wattage
30	20	95	38	40	240
32	30	150	40	30	190
32	40	200	40	40	250
32	50	250	40	50	315
35	30	165	45	30	215
35	40	220	45	50	350
38	20	120	50	40	315
38	30	180	50	50	395

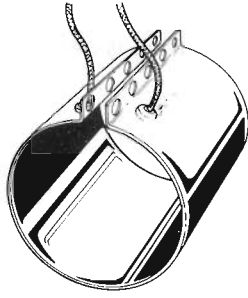
4MM DIA TUBULAR NOZZLES @ 75kW/M2					
Dia	Width	Wattage	Dia	Width	Wattage
30	20	140	38	40	360
32	30	225	40	30	285
32	40	300	40	40	375
32	50	375	40	50	470
35	30	250	45	30	320
35	40	330	45	50	530
38	20	180	50	40	470
38	30	270	50	50	590

HELIOS BAND HEATERS

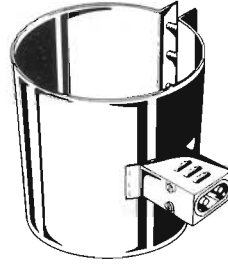
ELECTRICAL TERMINATION



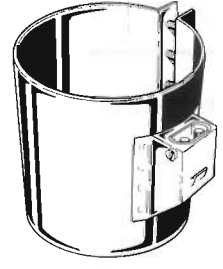
A



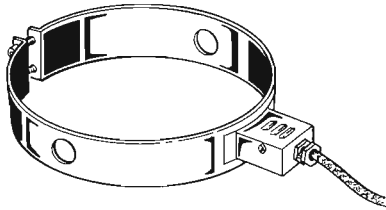
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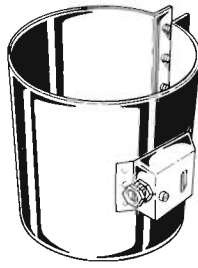
C



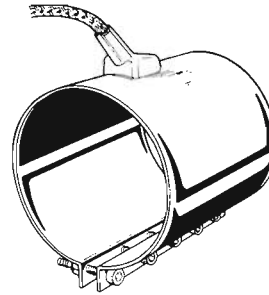
D



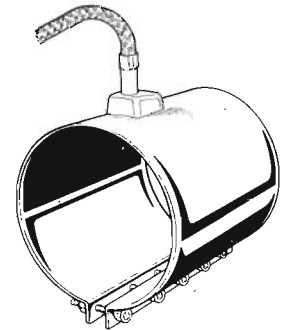
E



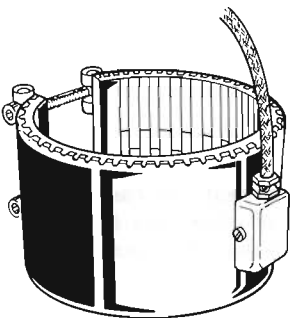
F



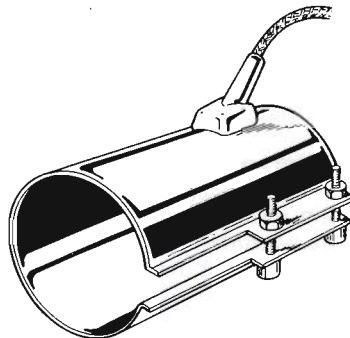
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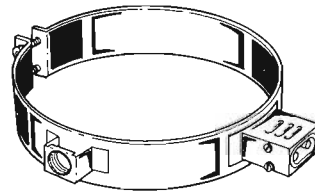
H



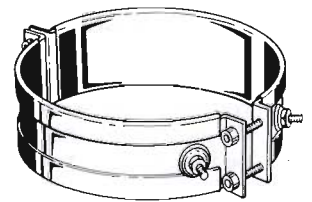
I



J



K



L

- A SCREW TERMINALS
- B D.G.N. LEADS
- C PLUG BASE STANDARD
- D PLUG BASE LAY FLAT
- E JUNCTION BOX STANDARD

- F JUNCTION BOX LAY FLAT
- G KIT BOX 45° BRAIDED LEAD
- H KIT BOX 90° BRAIDED LEAD
- I KIT BOX LAY FLAT BRAIDED LEAD

- J CUT AWAY LUGS
- K THERMOCOUPLE HOLE WITH BRACKET
- L HALF BANDS SCREW TERMINALS