

CE

Micro Tubular Coil Heaters

Mcro Tubular Coil Heaters are manufactured in two standard diameters, 1.5 mm and 1.8 mm. These heaters are swaged and compacted to these diameters and fitted into special clamps to tighten over circular parts for heating purpose. Sheath material available are Chrome Nickel Steel and Nickel

Features

- Axial Clamp Front end loading /adjusting saves hours of downtime in moulds.
- Two standard diameters, 1.5 mm and 1.8 mm (QO59' & QO7")
- Equipped with a special cover for easy fitment over circular parts.
- Faster Heat Transfer with flat cross section tube (1.40mm x 2.20mm)
- Staggered cold leads of 5" & 7"
- Standard sizes available
- Robust Construction in Mcro Tube Dia – 1.50 & 1.80mm
- Standard wattage available 149 watt & 268 watt on 240 V
- Standard size available ID 19mm x 30 & ID 22mm x 30

Applications

- PET Preformed Moulds
- Hot Runner Nozzles & Bushings
- Thin Walled Container Moulds

Technical Data For Custom Made Heaters

Cross Section : 1.5mm , 1.8mm, 1.3x23mm

Sheath material : Chrome Nickel Steel and Nickel

Insulation material : High purity MgO

Heating element : NiCr 80.20

Lead Wires : Teflon insulated

Voltage Range : Maximum 250 volts, standard 230 volts

Power rating : Depending on application

Power tolerance : \pm 5% – \pm 2% available on request

H. V Testing : 800 V

Insulation Resistance : $> 100 \, M\Omega$

Current Leakage : < Q 5 mA

Sheath Temperature : 750°C max

Adapter Temperature : 150°C max

Length Tolerance : $\pm 2\%$

Unheated Length : Mnimum 25 mm plus adapter connection.

Mnimum Bending diameter : 6mm

Other dimensions and product variation available on request

Axial Clamp

The 1.8mm diameter Mcro Tubular Heater is formed into a coil of predefined dimension and equipped with a special cover for easy fittment. This special cover called Axial clamp allows front end loading and adjustability. Such easy handling saves hours of downtime in case of heater failure in a Multi - Cavity mold. These heaters are offered with staggered cold leads of 5" & 7".





Standard Ready Stock Heaters

For faster heat up time we offer heaters with a flat cross section of 1.3mm x 23mm.

The cold leads have a diameter of 1.8mm whereas the heated area has a flat cross section for better contact area and faster heat transfer.

Standard sizes available are mentioned below.

Volts	Watts	Inner Diameter	Width	Lead Wire
240	268	191 mm	30 5mm	1000mm (40')
240	149	191 mm	30.5mm	1000mm (40')
240	268	22 3 mm	30.5mm	1000mm (40')

NOTE

Lead wires - Teflon insulated

Clamp allen screw size : MBx 15mm Watts and resistance tolerance \pm 5%

Precautions & Installation

- Microtubular Heaters are hygroscopic in nature due to Mgo contents. If kept unused for longer period, there is moisture deposition on the terminals. Therefore we recommend you to de-moisturise the heaters prior to installation by heating them at 100 Degree Centigrade in an oven for approximately 1 to 2 hours or use controllers with soft start function. This will help evaporate any moisture present inside.
- While installing Microtubular Heaters on to the nozzle care should be taken that they should be tight fit for even heat transfer. There should not be air gaps between the heater and the nozzle. Never open the ID of the heater by twisting as it will not fit tight which leads to premature heater failure.
- 3 Due to high watt densities per cm/sq, Microtubular Heaters require precise temperature controllers. PHP strongly recommends to use good quality soft start Hot Runner controllers.
- 4 Lead ends (Non Heating) once bent should not be re-bent. This could lead to breakage. Sharp edges along the lead wire path should be avoided. Connection lead areas should be protected from combustable gases & liquid to avoid short-circuits.
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- Stabilized Voltage supply increases the life of the heater as well as increases the wattage output.

