



*Professional Hot Runner Heater
Manufacturer*

HESITE (DONGGUAN) ELECTROTHERMAL TECHNOLOGY CO., LTD
HAST INDUSTRIAL (HONGKONG) CO., LIMITED

COMPANY PROFILE

Established in the year of 2006, Hesite Electrothermal Technology(HST), is China' s prominent manufacturer specialized in hot runner coil heater, various special profile coil heater,Manifold heaters and other hot runner products. Successfully positioned in the domestic trade.we generate an average turnover of up to US \$5 Million

We have a long database of clients containing the names of the organization that have dealt with us and has received satisfactory results. All our efforts are directed to secure maximum customer satisfaction and we will continue doing so.



HST have over 70 professional technicians and service team. Professional QC team with complete QC equipment can ensure the products to be qualified from material to final products .



COMPANY PROFILE

MODERN WORKSHOP

HST technicians have been attaching importance to product quality and taking the product quality as an enterprise's life. All the products are made through standard production procedures



ADVANCED PRODUCTION FACILITY

Automation production equipments of complete intellectual property rights which are researched and developed independently by our factory, To ensure the items quality and high efficiency of production.



HIGH-QUALITY CONTROL

All the raw materials are based on the high quality ones made by well-known domestic and international manufacturers



Germany NiCr2080 alloy wire



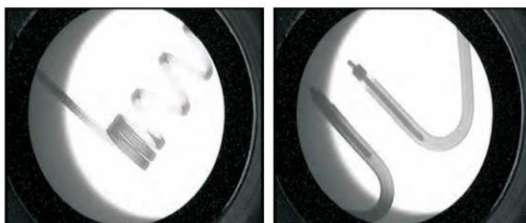
Japen imported MgO



Using Salt spray chamber to analyze the element of stainless steel



Check the finished product quality



Using X-RAY dectector scan electric heater to ensure the quality.



THERMOCOUPLE

Applied to hot runner system. Equip to armored thermocouple out of heating ring and equipped with controlling meter. Measuring and controlling temperature of heating object. It's a hard entity which is pulled by temperature measurer, insulation material and metal protective tube. The feature is small diameter, free bending, pressure-proof, shake-proof, fast thermal response and high reliability. It's the best outlay temperature sensor of hot runner molding.

Sensor type	Measuring range (recommended)	Lead length (Standardized)	Tolerance	Maxmium temperature of connection part	Customized allowed
TC Type J (Fe-CuNi)	(0 °C - 590 °C)	1500mm	±2.5°C	200°C	
TC Type K (NiCr - Ni)	(400 °C - 900 °C)				



TC-A1

Thermocouple Diameter	Length(mm)
φ1.0mm	customized
φ1.5mm	
φ1.6mm	
φ2.0mm	



TC-A2

Term	Mounting hole	Thickness
φ4.0*12mm	M4	8.0mm



TC-A3

Term	Mounting hole	Thickness
φ4.0*12mm	M4	1.0mm



TC-A4

Term	Mounting hole	Thermocouple Diameter
φ14mm	M4	φ1.5mm

COIL HEATER

Our heating elements can be used in a wide variety of applications. Their high level of plasticity ideally suits them to the heating of hot runner nozzles and for accurately heating the contours of three-dimensional surfaces. A large number of ready-to-fit system solutions are available for plastic injection nozzles with Hot coil heater, Brass coil heater and Armored coil heater.



- In micro-injection moulding systems and high performance tools with small cavity spacings, the preferred elements are Double-End Heating Element, which are most often connected at both ends and do not permit the addition of a thermocouple
- while where there is more space in the hot runner or the heat demand is higher, the more powerful Single-End Heating Element are used. With its larger cross-section, the latter type has its connection point at one end as standard, and a Type J or K thermocouple can also be integrated on request.

Power at 230V	Total length straight(include cold length 50mm)									
	2*4	2.2*4,2.2.3*4,3.3.2*3.2	3.6*3.6	φ3.4	φ3.8	φ4.2	φ1.8	φ2.0,1.4*2.1		
	Single-End(thermocouple can be integrated)							Double-End(thermocouple cannot be integrated)		
200W	315	300	280	315	300	280	530	510		
250W	365	350	335	365	350	335	600	575		
300W	475	450	430	475	450	430	680	650		
350W	550	535	510	550	535	510	780	740		
400W	600	580	550	600	580	550	860	820		
450W	675	650	620	675	650	620	960	920		
500W	725	700	670	725	700	670	1050	1000		
550W	800	780	750	800	780	750	1150	1100		
600W	880	850	820	880	850	820	1250	1200		
700W	1040	1000	960	1040	1000	960	1450	1380		
800W	1200	1150	1100	1200	1150	1100				
900W	1420	1350	1300	1420	1350	1300				
1000W	1550	1480	1420	1550	1480	1420				
1100W	1930	1850	1750	1930	1850	1750				
1200W	2050	1950	1850	2050	1950	1850				
Total Length(mm)										

For Reference Only

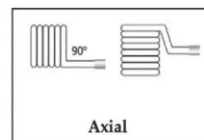
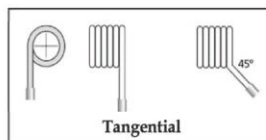
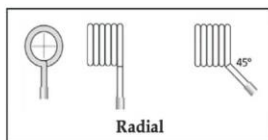
COIL HEATER



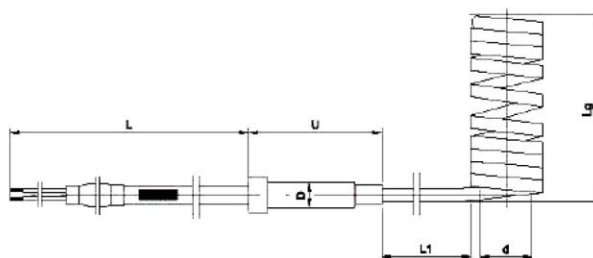
HST coil Heaters are manufactured in round, square & rectangular section to guarantee the maximum thermal exchange keeping an excellent efficiency. Most important applications are Nozzles for Hot Runner Systems, Hot Melting Nozzles, Manifolds etc. These Heaters can be manufactured with inbuilt thermocouple J or K type.

Section(mm)	○: $\phi 1.5$, $\phi 1.8$, $\phi 2.0$, $\phi 3.4$, $\phi 3.8$, $\phi 4.2$ □: 3.2×3.2 , 3.6×3.6 , 2.2×4.2 , 2.3×4.3 , 2×4
Voltage	Up to 250V, standard 230V
Maximum power density(depending on heat transfer)	Maximum 9W/cm
High voltage flash test (cold):	800 V (AC) (1000 V AC, 1250 V AC)
Insulation resistance (cold):	$\geq 5 \text{ M}\Omega$ for 500 V (DC)
Leakage current (cold):	$< 0.5 \text{ mA}$ for 253 V (AC)
Unheated length	Standard 50mm(minimum 15mm)
Thermocouple	type J or K
Tube diameter tolerance	$\pm 0.05 \text{ mm}$
Length tolerance	$\pm 5 \text{ mm}$
Wattage Tolerance	+ 5%, -10%
Maximum working temperature	Max. 750° C / 1380° F
Maximum Straight Length	2500mm
Length of connector	30 ± 2
Standard lead wire length	1000mm
Leads	PTFE insulation, permanent temperature resistant up to 260°C

ADAPTOR EXIT OPTION



STRUCTURE



- L Lead wire length
- D Connector diameter
- U Connector length
- L1 Unheating length
- d Inside diameter
- Lg Coiled length

		coiled length																		
Inside Diameter	12mm	15mm	20mm	25mm	30mm	35mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm	80mm	85mm	90mm	95mm	100mm	
	13mm			125	145	170	195	220	245	265	290	300	315	330	330	350	370			
	14mm			130	150	175	200	230	250	280	300	300	330	350	350	375	400			
	15mm			130	170	200	230	250	280	310	310	340	365	390	390	410	435			
	16mm			150	180	215	245	275	310	310	335	365	390	420	420	450	465			
	18mm			130	165	195	225	260	290	325	350	350	390	420	450	450	470	500		
	19mm			145	185	220	255	290	330	350	350	400	450	480	480	500	520	550	575	600
	20mm			150	195	230	270	310	350	350	400	430	450	480	480	500	520	550	575	600
	22mm			160	200	245	285	325	365	400	450	450	490	525	525	550	580	600	620	620
	25mm	135	180	225	265	310	355	400	450	470	510	560	600	600	630	660	690	710	750	750
	28mm	150	195	250	300	350	400	450	450	500	550	600	600	630	660	690	750	750	800	800
	30mm	165	220	250	300	350	400	450	450	500	550	600	600	630	660	690	720	750	800	850
	32mm	180	240	280	300	400	400	450	450	500	550	600	630	660	690	720	750	800	850	850
	35mm	195	260	300	350	420	450	450	500	550	600	650	650	700	720	770	800	850	900	900
	38mm	200	260	300	380	450	480	540	540	600	600	650	700	750	750	780	830	880	950	950
	40mm	215	285	330	420	450	520	580	580	600	650	650	700	750	800	850	850	880	950	950
	42mm	225	300	360	420	480	550	590	590	630	680	730	770	800	830	900	950	1000	1000	1000
	45mm	225	300	360	420	480	550	590	590	630	680	730	770	800	830	900	950	1000	1000	1000
	50mm	225	330	380	450	530	600	630	630	630	700	750	770	800	850	900	950	1000	1000	1050
	52mm	250	350	400	470	550	600	630	630	700	700	750	800	850	900	950	1000	1050	1100	1150
55mm																				
58mm																				
60mm																				
62mm																				
65mm																				
70mm																				
75mm																				
80mm																				
		wattage [W]																		

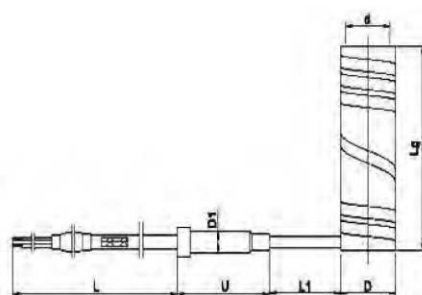
BRASS COIL HEATER



- Pressed-in coil heater with user-defined groove profile
- Reproducible power distribution
- Minimal wall thickness for reduced clearances
- Lowest power available in the middle of a nozzle
- Brass as cylinder raw material
- Same connection options as coil heaters

Section(mm)	$\varnothing$: $\varnothing 1.5, \varnothing 1.8, \varnothing 2.0$ $\square$: $2.3 \times 4.3, 1.4 \times 2.1, 3.2 \times 3.2$
Voltage	Up to 250V, standard 230V
Maximum power density	Maximum 9W/cm
High voltage flash test (cold):	800 V (AC) (1000 V AC, 1250 V AC)
Insulation resistance (cold):	$\geq 5 \text{ M}\Omega$ for 500 V (DC)
Leakage current (cold):	< 0.5 mA for 253 V (AC)
Sleeve Length	8mm-500mm
Unheated Length	Standard 50mm (minimum 15mm)
Wattage tolerance	+ 5%, -10%
Tolerance of Inside Diameter	+ 0.06 ~ + 0.04mm
Sleeve length tolerance	$\pm 0.25\text{mm}$
Maximum working temperature	max. 450 °C / 840 °F
Thermocouple	type J or K
Lowest wall thickness	2.0mm
Length of connector	$30 \pm 2\text{mm}$
Standard lead wire length	1000mm
Leads	PTFE insulation, permanent temperature resistant up to 260°C

STRUCTURE



- L Lead wire length
- D1 Connector diameter
- U Connector length
- L1 Unheating length
- d Inside Diameter
- D Outside diameter
- Lg Brass Sleeve length

ARMORED COIL HEATER



Screw Clamp Band



Axial Clamp Band

Clamp band Heaters are manufactured in round and rectangular section. These round / rectangular Mini coil heaters are swaged and formed into a coil of predefined dimension. It is equipped with a metallic cover for easy fitment. These heaters are available in standard SCREW clamping system & AXIAL clamping system. The AXIAL clamping allows the front end loading for easy installation in multi cavity moulds.



Kappa series heater



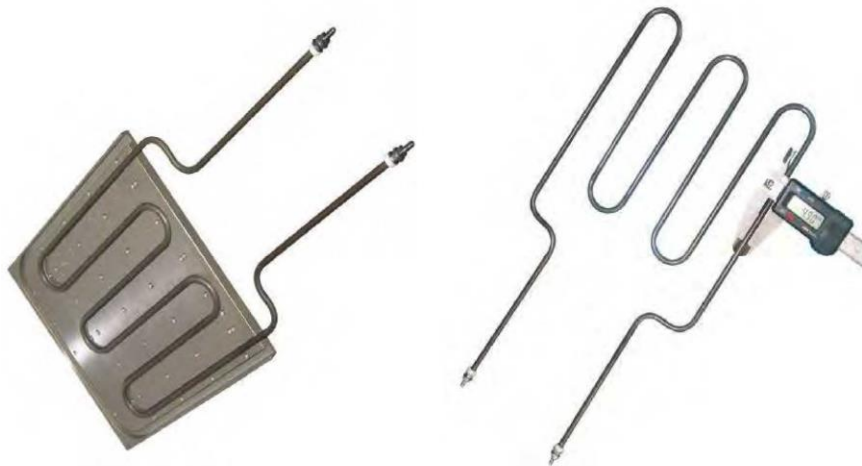
Brazed Together Housing

Kappa series/Brazed Together Housing heater with Brass & Steel Sleeve are constructed with a nickel plated copper inner sleeve and a stainless outer sleeve. The heater is sandwiched between these sleeves eliminating the heat transfer problems associated with other dual sleeved designs. The material used direct the heat inward toward the nozzle, resulting in a very efficient heater with even heat distribution.

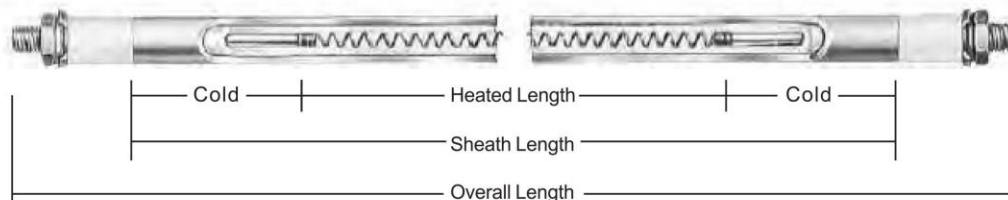
TO ORDER SPECIFY :

- Inside diameter of sleeve in mm
- Outer diameter of the heater
- Sleeve length
- Sleeve material (Brass / Steel)
- Wattage / Voltage
- With or without Thermocouple.

TUBULAR HEATER



HST Tubular Heater have an exceptional capacity for being shaped - even in three dimensions. Many special winding patterns and geometries apart from the purely cylindrical are thus possible, allowing heating close to the contours of all manner of surfaces. It can be placed over the surface to be heated (firmly bonded by soldering, force-fitted, pressed or otherwise appropriately joined) or pressed into a positive fit in grooves in the surface to be heated.



Section	○: $\varnothing 6.0$, $\varnothing 6.6$, $\varnothing 8$, $\varnothing 8.5$ □: 5*5, 6*6, 8*8
Voltage	Up to 250V, standard 230V
Sheath material	Stainless Steel, Incoloy or Nickel
Wattage Tolerance	+ 5% - 10%
Resistance Tolerance	+ 10% - 5%
Dielectric strength	1500 V
Insulation (cold 1000 V DC)	> 10 M Ω
Leakage current (cold)	< 0.5 mA
Max. Sheath temperature	700 °C / 1292 °F
Unheated(Cold) Length	30 $\pm$ 5mm
Available version	☐ straight ☐ bend according to benchmark 1:1 drawing

Sheath length (mm)	Φ6.0mm	Φ6.6mm	Φ8mm	Φ 8.5mm	Φ 5×5mm	Φ 6×6mm	Φ8×8mm
	Standard Wattage(W) 230V, cold length 30-35mm						
300	450	500	600	650	400	500	650
325	500	550	650	700	450	550	750
350	550	600	700	750	500	600	800
375	550	600	750	800	550	650	850
400	600	650	800	850	550	650	900
425	650	700	850	900	600	700	950
450	700	750	900	950	650	750	1000
475	700	800	950	1000	650	800	1050
500	750	850	1000	1050	700	850	1100
525	800	850	1050	1100	750	900	1200
550	850	900	1100	1150	750	900	1250
575	850	950	1150	1250	800	950	1300
600	900	1000	1200	1300	850	1000	1350
625	950	1050	1250	1350	900	1050	1400
650	1000	1100	1300	1400	900	1100	1450
675	1000	1100	1350	1450	950	1150	1500
700	1050	1150	1400	1500	1000	1200	1550
725	1100	1200	1450	1550	1000	1200	1600
750	1150	1250	1500	1600	1050	1250	1700
775	1150	1300	1550	1650	1100	1300	1750
800	1200	1350	1600	1700	1100	1350	1800
825	1250	1350	1650	1750	1150	1400	1850
850	1300	1400	1700	1800	1200	1450	1900
875	1300	1450	1760	1850	1250	1450	1950
900	1350	1500	1800	1900	1250	1500	2000
925	1400	1550	1850	1950	1300	1550	2050
950	1450	1600	1900	2050	1350	1600	2150
975	1450	1600	1950	2100	1350	1650	2200
1000	1500	1650	2000	2150	1400	1700	2250
1025	1550	1700	2050	2200	1450	1700	2300
1050	1600	1750	2100	2250	1450	1750	2350
1075	1600	1800	2150	2300	1500	1800	2400
1100	1650	1800	2200	2350	1550	1850	2450
1125	1700	1850	2250	2400	1600	1900	2500
1150	1750	1900	2300	2450	1600	1950	2600
1175	1750	1950	2350	2500	1650	1950	2650
1200	1800	2000	2400	2550	1700	2000	2700
1225	1850	2050	2450	2600	1700	2050	2750
1250	1900	2050	2500	2650	1750	2100	2800
1275	1900	2100	2550	2700	1800	2150	2850
1300	1950	2150	2600	2800	1800	2200	2900
1325	2000	2200	2650	2850	1850	2250	2950
1350	2050	2250	2700	2900	1900	2250	3000
1375	2050	2300	2750	2950	1950	2300	3100
1400	2100	2300	2800	3000	1950	2350	3150
1425	2150	2350	2850	3050	2000	2400	3200
1450	2200	2400	2900	3100	2050	2450	3250
1475	2200	2450	2950	3150	2050	2500	3300
1500	2250	2500	3000	3200	2100	2500	3350

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