



THERMAL ELECTRIC ELEMENTS
AUSTRALIA



Plastics Industry

Product

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Thermal Nozzle Heaters for Injection Moulding

Thermal nozzle elements have been designed to last and reduce down time, they have high watt density capabilities which allow maximum temperature ratings and faster heat penetration into the nozzle.

These elements are 6.35mm dia. stainless steel tubular roll formed, making them robust and eliminating the problems that normally occur with conventional mica nozzles.

Operating temperatures of up to 600°C are achieved with outstanding reliability and long lasting life. With the multi-form construction, this heater can be opened and fitted easily without causing damage that may normally occur with mica elements.

A Thermal Low Profile Nozzle element is also available with all of the above capabilities, these elements are 4mm dia. stainless steel tubular roll formed. They are used in applications where there is limited space around the nozzle. The LP type is available with the same dimensions and wattages as the TS and SN type nozzles heaters.

All Thermal nozzle heaters come with 1 metre double glass insulated leads and 300mm tinned copper braid as standard. Many other options are available.

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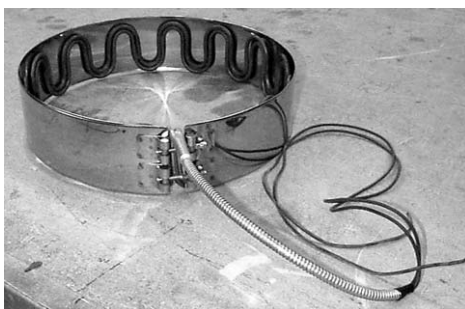
Thermal Nozzle Heaters for Injection Moulding

The two basic designs available are:

The TS type and SN type



TS TYPE



SN TYPE

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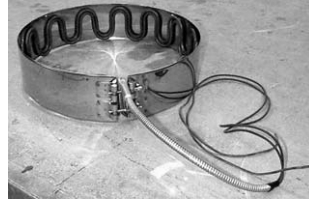


Thermal Nozzle Heaters - TS

Part No.	Diameter	Width	Watts	Part No.	Diameter	Width	Watts
TS2512	25	12	125	TS3212	32	12	200
TS2522	25	22	150	TS3222	32	22	250
TS2530	25	30	200	TS3230	32	30	300
TS2538	25	38	250	TS3238	32	38	350
TS2546	25	46	275	TS3246	32	46	400
TS3512	35	12	200	TS3812	38	12	200
TS3522	35	22	250	TS3822	38	22	250
TS3530	35	30	300	TS3830	38	30	300
TS3538	35	38	350	TS3838	38	38	350
TS3546	35	46	400	TS3846	38	46	400
TS4512	45	12	225	TS5012	50	12	200
TS4522	45	22	250	TS5022	50	22	300
TS4530	45	30	300	TS5030	50	30	350
TS4538	45	38	350	TS5038	50	38	400
TS4546	45	46	400	TS5046	50	46	450
TS5512	55	12	250	TS6212	62	12	250
TS5522	55	22	300	TS6222	62	22	300
TS5530	55	30	350	TS6230	62	30	350
TS5538	55	38	400	TS6238	62	38	400
TS5546	55	46	450	TS6246	62	46	450
TS7012	70	12	300	TS7512	75	12	300
TS7022	70	22	350	TS7522	75	22	350
TS7030	70	30	400	TS7530	75	30	400
TS7038	70	38	450	TS7538	75	38	450
TS7046	70	46	500	TS7546	75	46	500

All dimensions are given in millimetres and elements are rated at 240V. Special sizes, voltages and wattages manufactured to suit your requirements.

Thermal Nozzle Heaters - SN



Part No.	Diameter	Width	Watts	Part No.	Diameter	Width	Watts
SN2550	25	50	200	SN3250	32	50	300
SN2560	25	60	250	SN3260	32	60	350
SN2580	25	80	300	SN3280	32	80	400
SN25100	25	100	450	SN32100	32	100	500
SN25150	25	150	600	SN32150	32	150	650
SN25200	25	200	800	SN32200	32	200	850
SN25250	25	250	1200	SN32250	32	250	1250
SN25300	25	300	1500	SN32300	32	300	1600
SN3550	35	50	300	SN3850	38	50	300
SN3560	35	60	350	SN3860	38	60	350
SN3580	35	80	400	SN3880	38	80	400
SN35100	35	100	550	SN38100	38	100	550
SN35150	35	150	700	SN38150	38	150	700
SN35200	35	200	900	SN38200	38	200	900
SN35250	35	250	1300	SN38250	38	250	1300
SN35300	35	300	1650	SN38300	38	300	1650
SN4550	45	50	350	SN5050	50	50	350
SN4560	45	60	400	SN5060	50	60	400
SN4580	45	80	450	SN5080	50	80	450
SN45100	45	100	650	SN50100	50	100	650
SN45150	45	150	800	SN50150	50	150	800
SN45200	45	200	1000	SN50200	50	200	1000
SN45250	45	250	1400	SN50250	50	250	1500
SN45300	45	300	1800	SN50300	50	300	1800
SN5550	55	50	400	SN6250	62	50	400
SN5560	55	60	450	SN6260	62	60	450
SN5580	55	80	500	SN6280	62	80	500
SN55100	55	100	700	SN62100	62	100	700
SN55150	55	150	900	SN62150	62	150	1000
SN55200	55	200	1200	SN62200	62	200	1250
SN55250	55	250	1600	SN62250	62	250	1650
SN55300	55	300	2000	SN62300	62	300	2000
SN7050	70	50	450	SN7550	75	50	500
SN7060	70	60	500	SN7560	75	60	600
SN7080	70	80	550	SN7580	75	80	650
SN70100	70	100	750	SN75100	75	100	850
SN70150	70	150	1100	SN75150	75	150	1200
SN70200	70	200	1300	SN75200	75	200	1500
SN70250	70	250	1800	SN75250	75	250	2000
SN70300	70	300	2200	SN75300	75	300	2400

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Thermalfold Cartridge Elements

Thermalfold high watts density cartridge elements are of a unique design and are the latest in electric heating technology.

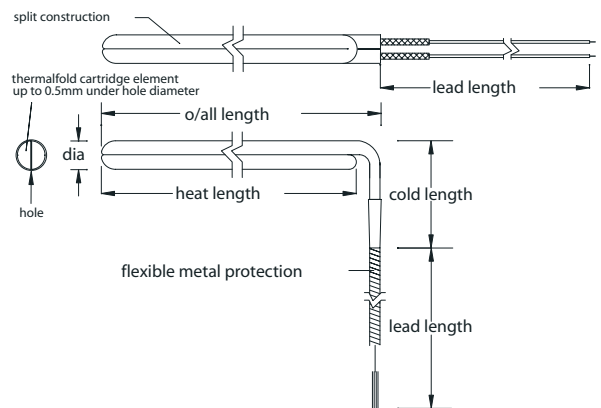
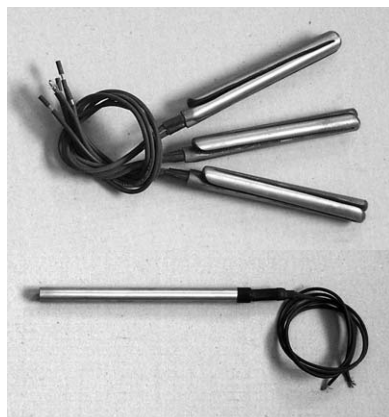
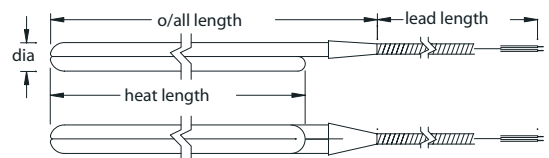
These elements are manufactured .1mm to .5mm under-size to slide easily into the hole size specified. When energised, they heat up and spring open due to their folded construction. While in the heated condition, they are a snug fit and impossible to remove. On cooling, they contract back to their original diameter and become easy to remove again. Conventional cartridge heaters would normally fail under these conditions.

The maximum element temperature is 800°C. Work temperatures of up to 600°C are therefore achievable, depending on the application.

These elements range in size from 6mm to 25mm diameter, with various lengths available on request.

Thermalfold heaters are specially manufactured to suit your requirements. When ordering please specify dimensions:

- A - Heating length.
- B - Total length of Thermalfold.
- C - Length of terminating leads with or without metal flexible conduit.
- D - Hole size in which Thermalfold to fit.
- E - Voltage and wattage.



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Thermal Band Heaters

Thermal Band Heaters have been designed to last and reduce down time. These elements have high watt density capabilities which allow maximum temperature ratings and faster heat penetration into the barrel.

These elements are manufactured of 6.35mm and 7.9mm dia. stainless steel tubular roll formed construction, making them robust and eliminating the problems that normally occur with conventional mica band heaters.

Operating temperatures of up to 600°C are achieved with outstanding reliability and long lasting life. With the multi-form design, these heaters can be opened and fitted easily without causing damage to them that may normally occur with mica elements. A uniform and greater heating area around the barrel is made possible due to this construction, whereas a mica band heater for applications with thermocouple hole and cut outs may, in many cases, heat only half of the area that the element has been designed for.

Thermal Band Heaters come standard with 2 metre double glass insulated leads fitted with either tinned copper braiding or stainless steel flexible conduit for protection against mechanical damage. If desired, a plugall assembly or terminal enclosure can also be fitted. The two designs available are BH type and DBH type.



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Thermal Band Heaters - BH

Part No.	Diameter	Width	Watts	Part No.	Diameter	Width	Watts
BH9045	90	45	500	BH20045	200	45	1600
BH9050	90	50	550	BH20050	200	50	1650
BH9055	90	55	600	BH20055	200	55	1700
BH9060	90	60	650	BH20060	200	60	1750
BH9065	90	65	700	BH20065	200	65	1800
BH9070	90	70	750	BH20070	200	70	2000
BH10045	100	45	500	BH22545	225	45	1650
BH10050	100	50	550	BH22550	225	50	1700
BH10055	100	55	600	BH22555	225	55	1750
BH10060	100	60	650	BH22560	225	60	1800
BH10065	100	65	700	BH22565	225	65	2000
BH10070	100	70	750	BH22570	225	70	2200
BH12545	125	45	600	BH25045	250	45	1700
BH12550	125	50	650	BH25050	250	50	1800
BH12555	125	55	700	BH25055	250	55	2000
BH12560	125	60	750	BH25060	250	60	2100
BH12565	125	65	800	BH25065	250	65	2250
BH12570	125	70	850	BH25070	250	70	2500
BH15045	150	45	700	BH30045	300	45	1850
BH15050	150	50	750	BH30050	300	50	2000
BH15055	150	55	800	BH30055	300	55	2100
BH15060	150	60	850	BH30060	300	60	2250
BH15065	150	65	900	BH30065	300	65	2500
BH15070	150	70	950	BH30070	300	70	2750
BH17545	175	45	1200	BH32545	325	45	2000
BH17550	175	50	1250	BH32550	325	50	2100
BH17555	175	55	1300	BH32555	325	55	2250
BH17560	175	60	1350	BH32560	325	60	2500
BH17565	175	65	1400	BH32565	325	65	2750
BH17570	175	70	1450	BH32570	325	70	3000

All dimensions are given in millimetres and elements are rated at 240V. Special sizes, voltages and wattages manufactured to suit your requirements.

Thermal Band Heaters - DBH

Part No.	Diameter	Width	Watts	Part No.	Diameter	Width	Watts
DBH9060	90	60	700	DBH15060	150	60	1000
DBH9075	90	75	800	DBH15075	150	75	1250
DBH90100	90	100	1000	DBH150100	150	100	1500
DBH90125	90	125	1250	DBH150125	150	125	1750
DBH90150	90	150	1500	DBH150150	150	150	2000
DBH90175	90	175	1750	DBH150175	150	175	2250
DBH90200	90	200	2000	DBH150200	150	200	2500
DBH90225	90	225	2250	DBH150225	150	225	2750
DBH90250	90	250	2500	DBH150250	150	250	3000
DBH90300	90	300	3000	DBH150300	150	300	3500
DBH10060	100	60	700	DBH17560	175	60	1500
DBH10075	100	75	800	DBH17575	175	75	1750
DBH100100	100	100	1000	DBH175100	175	100	2000
DBH100125	100	125	1250	DBH175125	175	125	2250
DBH100150	100	150	1500	DBH175150	175	150	2500
DBH100175	100	175	1750	DBH175175	175	175	2750
DBH100200	100	200	2000	DBH175200	175	200	3000
DBH100225	100	225	2250	DBH175225	175	225	3250
DBH100250	100	250	2500	DBH175250	175	250	3500
DBH100300	100	300	3000	DBH175300	175	300	3750
DBH12560	125	60	1000	DBH20060	200	60	1500
DBH12570	125	75	1250	DBH20075	200	75	1750
DBH125100	125	100	1500	DBH200100	200	100	2000
DBH125125	125	125	1750	DBH200125	200	125	2250
DBH125150	125	150	2000	DBH200150	200	150	2500
DBH125175	125	175	2250	DBH200175	200	175	2750
DBH125200	125	200	2500	DBH200200	200	200	3000
DBH125225	125	225	2750	DBH200225	200	225	3250
DBH125250	125	250	3000	DBH200250	200	250	3500
DBH125300	125	300	3250	DBH200300	200	300	3750

All dimensions are given in millimetres and elements are rated at 240V. Special sizes, voltages and wattages manufactured to suit your requirements.

6.9

Thermal Band Heaters - DBH - continued

Part No.	Diameter	Width	Watts	Part No.	Diameter	Width	Watts
DBH22560	225	60	1750	DBH30060	300	60	2500
DBH22575	225	75	2000	DBH30075	300	75	2750
DBH225100	225	100	2500	DBH300100	300	100	3000
DBH225125	225	125	2750	DBH300125	300	125	3250
DBH225150	225	150	3000	DBH300150	300	150	3500
DBH225175	225	175	3250	DBH300175	300	175	3750
DBH225200	225	200	3500	DBH300200	300	200	4000
DBH225225	225	225	3750	DBH300225	300	225	4250
DBH225250	225	250	4000	DBH300250	300	250	4500
DBH225300	225	300	4500	DBH300300	300	300	5000
DBH25060	250	60	1750	DBH32560	325	60	2500
DBH25075	250	75	2000	DBH32575	325	75	2750
DBH250100	250	100	2500	DBH325100	325	100	3000
DBH250125	250	125	2750	DBH325125	325	125	3250
DBH250150	250	150	3000	DBH325150	325	150	3500
DBH250175	250	175	3250	DBH325175	325	175	3750
DBH250200	250	200	3500	DBH325200	325	200	4000
DBH250225	250	225	3750	DBH325225	325	225	4250
DBH250250	250	250	4000	DBH325250	325	250	4500
DBH250300	250	300	4500	DBH325300	325	300	5000
DBH27560	275	60	1750	DBH35060	350	60	2500
DBH27575	275	75	2000	DBH35075	350	75	2750
DBH275100	275	100	2500	DBH350100	350	100	3000
DBH275125	275	125	2750	DBH350125	350	125	3250
DBH275150	275	150	3000	DBH350150	350	150	3500
DBH275175	275	175	3250	DBH350175	350	175	3750
DBH275200	275	200	3500	DBH350200	350	200	4000
DBH275225	275	225	3750	DBH350225	350	225	4250
DBH275250	275	250	4000	DBH350250	350	250	4500
DBH275300	275	300	4500	DBH350300	350	300	5000

All dimensions are given in millimetres and elements are rated at 240V. Special sizes, voltages and wattages manufactured to suit your requirements.