

ULTRA NOZZLES

TOTALLY SEALED, INTERNALLY HEATED WITH A BUILT IN THERMOCOUPLE
FAST RESPONSE, REDUCED COST, BETTER CONTROL & HIGH DURABILITY

ULTRA-S SPECIFICATIONS

Inside Bore Size .500"
Main Body O.D. 1.750"
Number of heaters 4
Heater O.D. Size .250"
Nozzle tip thread 7/8" – 14
Rear thread 1.25" – 2.25"
(30mm – 60mm)
Cable Length Standard



Part Number	"X" Length forward of nozzle adapter	OAL with nozzle tip	Heater Voltage	Total Wattage	Total Amps
ULTS6-1	3.50"	5.90"	120	600	5
ULTS6-2	3.50"	5.90"	240	600	2.5
ULTS7-1	4.50"	6.90"	120	900	7.6
ULTS7-2	4.50"	6.90"	240	900	3.8
ULTS8-1	5.50"	7.90"	120	1000	8.4
ULTS8-2	5.50"	7.90"	240	1000	4.2
ULTS10-1	7.50"	9.90"	120	1400	11.8
ULTS10-2	7.50"	9.90"	240	1400	5.9
ULTS12-1	9.50"	11.90"	120	1800	15
ULTS12-2	9.50"	11.90"	240	1800	7.5
ULTS14-1	11.50"	13.90"	120	2200	18.4
ULTS14-2	11.50"	13.90"	240	2200	9.2
ULTS16-1	13.50"	15.90"	120	2600	21.8
ULTS16-2	13.50"	15.90"	240	2600	10.9
ULTS18-1	15.50"	17.90"	120	3000	25.5
ULTS18-2	15.50"	17.90"	240	3000	12.5
ULTS20-1	17.50"	19.90"	120	3400	28.4
ULTS20-2	17.50"	19.90"	240	3400	14.2

ULTRA-M SPECIFICATIONS

Inside Bore Size .750"
Main Body O.D. 2.500"
Number of Heaters 5
Heater O.D. Size .375"
Nozzle Tip Thread 1 1/4" – 12
Rear Thread 1.75" – 2.75"
(45mm – 70mm)
Cable Length 110" Standard



Part Number	"X" Length forward of nozzle adapter	OAL with nozzle tip	Heater Voltage	Total Wattage	Total Amps
ULTM10-1	8.170"	10.00"	120	1750	15
ULTM10-2	8.170"	10.00"	240	1750	7.5
ULTM12-1	10.170"	12.00"	120	2250	19
ULTM12-2	10.170"	12.00"	240	2250	9.5
ULTM14-1	12.170"	14.00"	120	2500	21
ULTM14-2	12.170"	14.00"	240	2500	10.5
ULTM16-1	14.170"	16.00"	120	2750	23
ULTM16-2	14.170"	16.00"	240	2750	11.5
ULTM18-1	16.170"	18.00"	120	3250	27.2
ULTM18-2	16.170"	18.00"	240	3250	13.6
ULTM20-1	18.170"	20.00"	120	3750	31.2
ULTM20-2	18.170"	20.00"	240	3750	15.6
ULTM22-1	20.170"	22.00"	120	4250	35.4
ULTM22-2	20.170"	22.00"	240	4250	17.7
ULTM24-1	22.170"	24.00"	120	4750	39.6
ULTM24-2	22.170"	24.00"	240	4750	19.8

ULTRA NOZZLES



- ① High quality stainless steel armor cable in any length required.
- ② All in one plug, power and thermocouple. The machine side can be a panel mount or cable type.
- ③ Manufactured to fit your machines nozzle adapter, thread and rear opening.
- ④ Ultra Nozzles are manufactured with industry standard replaceable nozzle tip threads.
- ⑤ Cap screws protect the heaters from plastic and are easily removable for service.
- ⑥ Seal ring keeps plastic from damaging heater wires and is easily removed for service.

ULTRA NOZZLE CAPABILITIES

Fast Response- Up to 5 times the wattage that can be applied using mica heaters on the outer diameter. No heat lost into the air at start-up.

Better Control - Built in thermocouple located at the tip end, controls the process where it matters most. Evenly distributed power over the total length of the nozzle body and even the hex area.

Reduced Cost - No exposed wires and totally sealed. Plastic cannot damage heater or thermocouple. No more downtime for heater replacement and rewiring.

High Quality-Manufactured from high quality alloy steels or Plasti-Co's "EverLast" stainless steel. Heating elements custom build for this application with Hi-Temp head wires that lead to the plug never spliced.

High Durability-Even with the higher total wattage, the use of many heaters keeps the watt density of each heater very low and in most cases only 1/2 that of the standard mica heaters used on most nozzles. The lower a heaters watt density the longer it will last. Durable stainless steel cable from the nozzle to the plug protects both the heater and thermocouple leads from damage.

Nozzle Service-When your Ultra Nozzle needs repair or rebuilding all components are replaceable. Plasti-Co offers replacement parts in most cases from stock. If you wish we offer a repair or total rebuild service.

Ultra vs. Heat Pipe Nozzle- The time it takes heat pipe nozzles to transfer heat from the end cap or nozzle adapter, in some cases, is longer than the barrel heat-up time. Some companies invest in costly heat pipe nozzles only to install heaters on them to speed up or balance the heat requirements. In extreme cases torches are used to accelerate the nozzle warm up process. Longer heat pipe nozzles require the use of one or more very high watt density heaters at the start of the nozzle. The heaters are costly mineral filled with limited life.

Ultra vs. Externally Heated Nozzles-Most molders know the time required to remove plastic damaged heaters and thermocouples from a machines nozzle after a bonnet. It is hot messy and sometimes dangerous work. The lost time and manpower costs make the Ultra the best value.

Ultra L Specifications:

The Ultra-L is a custom built nozzle for very large machines.

Inside Bore Size	.750" - 1.250"
Main Body O.D.	2.500" - 4.00"
Number of heaters	5-8
Heater O.D. Size	.375" - .500"
Nozzle tip thread	1 1/4" - 2 1/2"
Rear thread	2.00" - 4.00" (50mm - 100mm)
Cable length	120" Standard