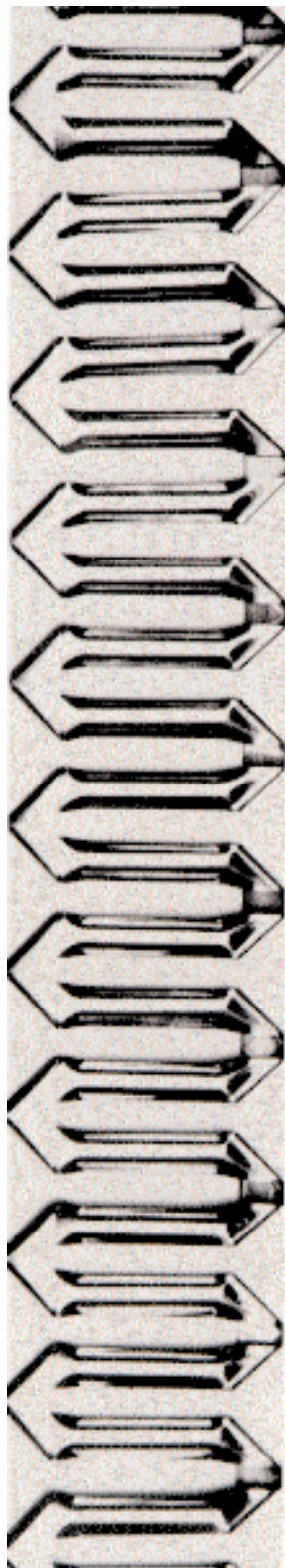
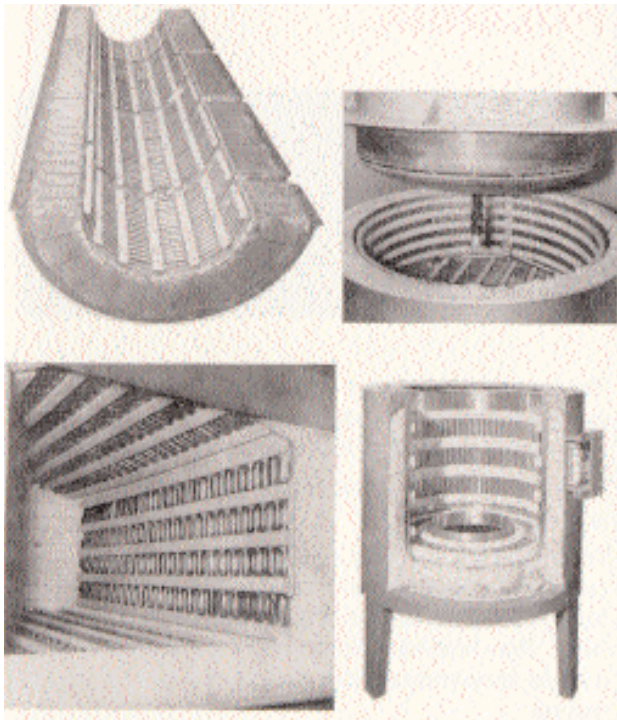


# TRENT FOLDED AND FORMED® HEATING ELEMENTS



## WHY?

# LET TRENT FOLDED and FORMED® HEATING ELEMENTS and INDUSTRIAL HEATING EQUIPMENT WORK FOR YOU



## TRENT, INC.

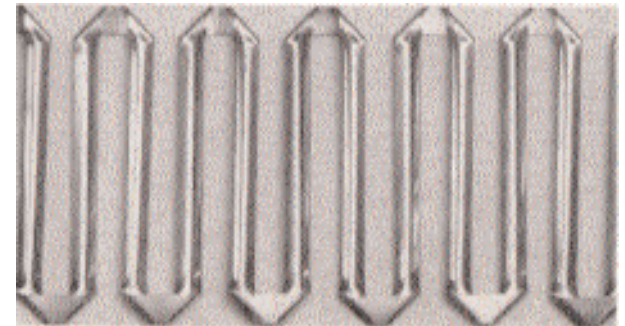
INDUSTRIAL HEATING SOLUTIONS

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# TRENT FOLDED and FORMED® HEATING ELEMENTS

A unique element configuration that is sometimes imitated --- never duplicated. Add up its performance advantages for your electrically heated process equipment.



- ⇒ Greater direct radiation to the workload.
- ⇒ More rapid heat dissipation --- at lower watt density than conventional elements.
- ⇒ Faster heat-up and cool-down.
- ⇒ Maximum heating efficiency at lower element surface temperatures --- without burnout.
- ⇒ Trouble-free, cost-effective applied heat to meet your most demanding application.

And only **TRENT FOLDED AND FORMED®** heating elements are backed by more than 75 years experience in electrically heated equipment design and manufacture. Why settle for less? Talk to **TRENT** today.

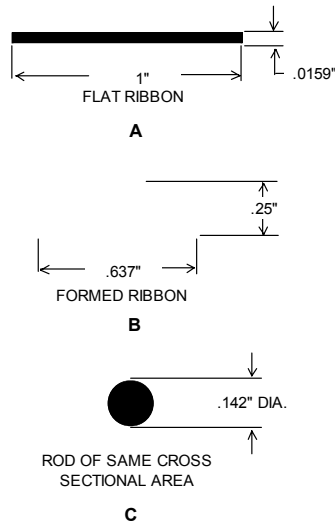
# 1st...

because it starts as a **FLAT RIBBON.**



And no other heating element dissipates heat more readily over more heating area!

Compare a ribbon element 1" wide by .0159" thick, with a rod element of the same cross sectional area.



The rod would be 9 times thicker than the ribbon --- with less than one-fourth the radiating surface area.

Result? Much of the heat is stored in the rod, instead of being dissipated. And that causes element burnout!

Not so with ribbon elements. Its low mass won't allow heat to concentrate within the element. So it radiates optimum heat at low watt density.

Ribbon is a more efficient heating element.

# 2nd...

because it's **FOLDED.**



**TRENT** makes the most of the ribbon element by folding it to expose maximum flat radiating surface where it's needed most --- the work zone of the equipment being heated.

Other ribbon elements don't offer this important advantage.

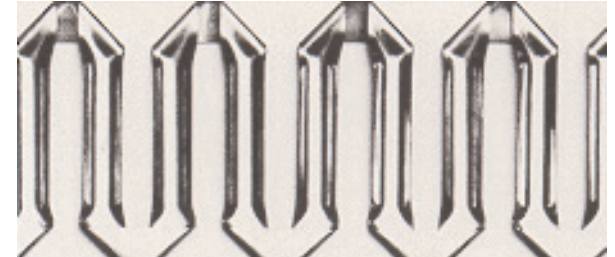
Wound ribbon elements, for example, expose radiating surfaces to one another --- with only the element edges facing the work chamber. One element tends to heat the other. They hold heat. Too often they operate at higher surface temperatures than necessary --- and that costs money.

Folded ribbon improves air recirculation, too. Heat is picked up more readily from the flat radiating side of the ribbon --- with only minimal airflow resistance from the edge of the element.

In addition, folded ribbon heats up and cools down more quickly. There's practically no residual heat when the equipment is de-energized --- a significant advantage in maintaining close tolerances between process control set-points and actual temperatures.

# 3rd...

because it's **FORMED.**



Greater structural strength is one obvious advantage.

**TRENT's** unique forming process makes **FOLDED and FORMED®** heating elements virtually self-supporting. And they maintain their structural strength and stability over extended periods of use --- even at high temperatures where ordinary elements sag.

**TRENT FOLDED and FORMED®** heating elements require less heat absorbing support material. That not only makes them a more efficient and cost-effective heat source --- it makes them much easier to replace in your equipment when necessary.

And note the concave surface of the **FOLDED and FORMED®** element. It exposes even more radiating surface --- and directs more heat to the work chamber than flat ribbon.