



HEAT SEAL COMPONENTS LTD

WHAT WE MAKE

Bands · Elements · PTFE tape · PTFE coating

This is not a price list, and it is not a parts catalogue. Almost everything we make is built to the dimensions of your machine, so there is no shelf of standard sizes to pick from. What follows is the range we work in, the limits we work to, and what we need from you before we can put a price on it.

Replacing a part that has worn out? Skip the lot and send us the old one. We'll measure it and make you another.

WHICH PART DO YOU NEED?



MADE HERE

ENDLESS BANDS

A closed loop. No ends and no fittings, welded into one piece.

3 to 150mm wide
0.076 to 0.20mm thick

[PAGE 2 →](#)



MADE HERE

ELEMENTS & WIRES

A strip, shaped profile or round wire, cut to your seal bar, often with end terminals.

1 to 25mm wide, 7 profiles
Cut-off wire 0.3 to 1.2mm

[PAGE 3 →](#)



SUPPLIED

PTFE TAPE

PTFE-coated glass cloth on a roll, self-adhesive or not.

5 to 1,000mm wide
3, 5 or 6 thou thick

[PAGE 4 →](#)



COATED HERE

PTFE COATING

Your own metal parts, including worn sealing jaws, coated in our building.

10 to 30µm coating
Parts up to 2m²

[PAGE 5 →](#)

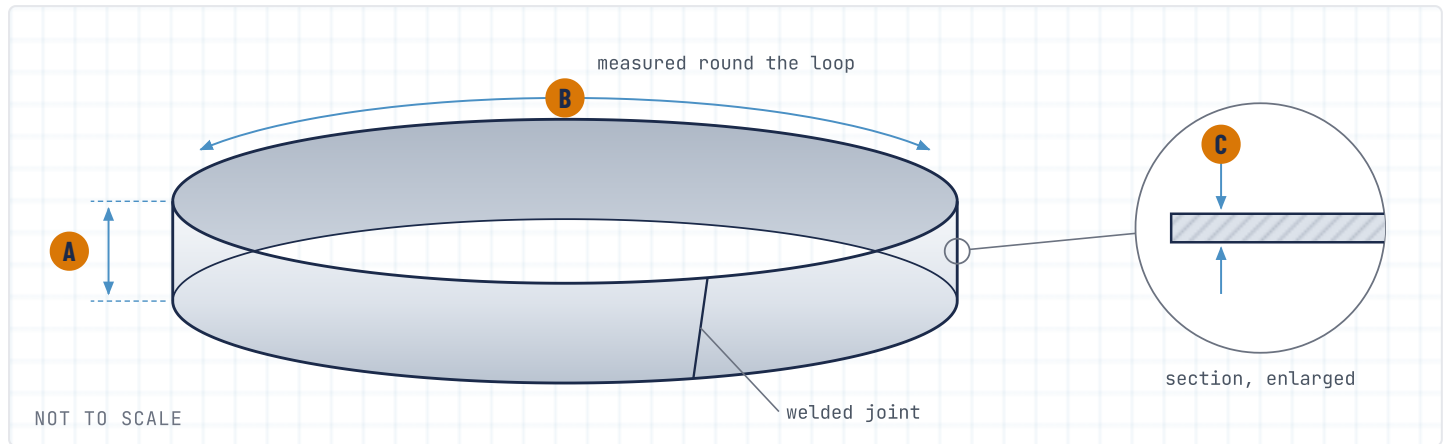
**ONE SITE.
ONE SUPPLIER.**

Element making, band welding, PTFE coating, checking and dispatch all happen in the same building in Huntingdon. One supplier, and nobody blaming anybody else when a part comes back wrong.

01 ENDLESS HEAT SEAL BANDS

MADE HERE

Welded loops, made to the exact circumference your machine runs. **A band has no ends and no fittings:** if a part has terminals, it is an element (page 3). Also called sealing belts, depending on who you learned the trade from.



DIMENSIONS

A Width	3 to 150mm
B Circumference	about 600mm to 6m Made to whatever your machine runs
C Thickness	0.076 to 0.20mm 3 to 8 thou

SPECIFICATION

Material	Half-hard stainless steel, or high carbon steel
Finish	Plain polished, or PTFE coated here Coated bands have a black face
Temperature	To 260°C PTFE coated About 400°C plain. Above 260°C we supply uncoated.
Lead time	On request

i **Band life is set by your machine as much as by the band.** A band is a consumable, not a fit-and-forget part. Bending strain is roughly thickness divided by twice the roller radius, so the *smallest* roller in the path governs how long a band lasts. Send us your roller diameters and we'll tell you what thickness to run.

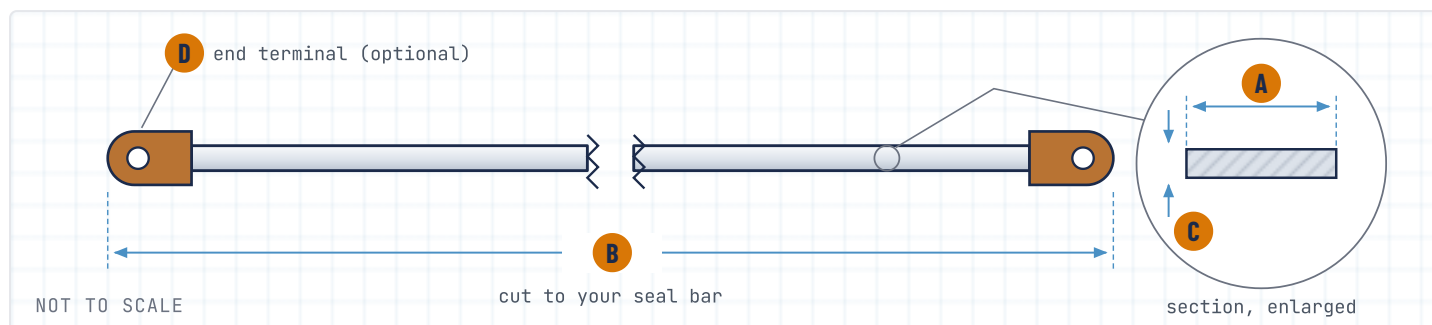
TO QUOTE

Width, circumference, thickness and material, and whether you want it **PTFE coated**. Or send us the old band and we'll measure it.

02 HEAT SEAL ELEMENTS AND WIRES

MADE HERE

Impulse and vacuum pack elements and round cut-off wires, all cut to your seal bar. **If you can measure it, we can make it.**



DIMENSIONS

A Width	1 to 25mm
B Length	to your seal bar Overall, end to end. No set maximum.
C Thickness	0.076 to 0.5mm From 3 thou
Wire diameter	0.3 to 1.2mm Round cut-off wire
D End terminals	Copper or nickel silver Or plain ends, to match your machine

SPECIFICATION

Form	Flat, shaped profile, or round wire Profiles below
Material	Stainless steel or nichrome Set by your controller, page 4
Finish	Plain, or PTFE coated here
Temperature	To 260°C PTFE coated Plain: depends on alloy and controller
Lead time	2 to 3 weeks

ELEMENT PROFILES Typical sizes. Flat goes to 25mm wide to order; any profile can be PTFE coated.

Profile	Width	Thickness	Typical use
 T-shape	2.8 to 4mm	0.3mm	Cut and seal
 Beaded	4 to 6mm	0.15 to 0.25mm	Cut and seal
 Double seal	6mm	0.3mm	Liquids
 Tapered edge	2 to 15mm	0.1 to 0.5mm	General sealing
 Flat	1 to 15mm	0.1 to 0.5mm	General sealing
 Concave (grooved)	3 to 5mm	0.1 to 0.3mm	Vacuum packaging
 Cut-off wire (round)	0.3 to 1.2mm dia.	n/a	Cut and seal

TO QUOTE

The old element or wire is best. Otherwise: profile, length, width or diameter, thickness, the **end terminal** type, and your **controller**.

CHOOSING THE ELEMENT MATERIAL

! Tell us which controller you run. It is the first question we'll ask. Closed-loop controllers (ROPEX Resistron, TOSS PIREG) use the element as the thermometer, reading its resistance 50 to 60 times a second, so the alloy must change resistance enough as it heats.

HOW COMMON ELEMENT ALLOYS BEHAVE

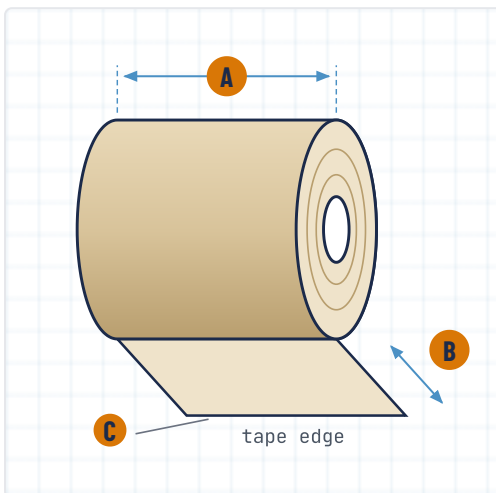
Alloy	Resistivity at 20°C	Change with heat (TCR)	Closed loop?
Stainless steel	~0.72 $\mu\Omega \cdot m$	~1000 ppm/K	Yes
Ni42 type (Fe/Ni/Cr)	0.88 $\mu\Omega \cdot m$	800 to 1100 ppm/K	Yes
80/20 nichrome	1.09 to 1.12 $\mu\Omega \cdot m$	50 to 60 ppm/K	No
FeCrAl (Kanthal D type)	1.35 to 1.45 $\mu\Omega \cdot m$	20 to 70 ppm/K	No

i A hotter alloy usually fixes nothing. Those controllers cap around 500°C, so repeated burnout is almost always mechanical: uneven clamp pressure, the terminal joint, or an element held from expanding. **FeCrAl is not a stainless** and rusts on a wash-down line.

03 PTFE HEAT SEAL TAPE

SUPPLIED

PTFE-coated glass cloth, self-adhesive or non-adhesive, to the width your machine takes. It covers the band or element and takes the wear.



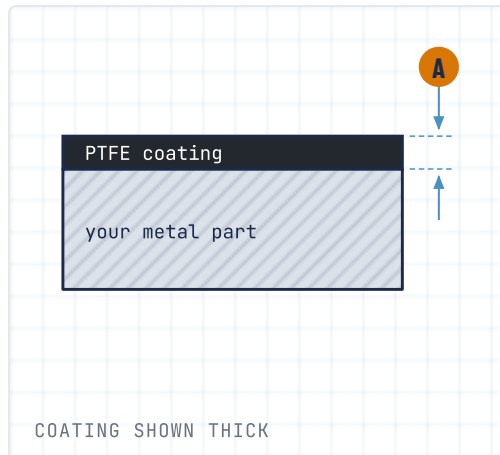
A Width	5 to 1,000mm
B Roll length	30m typical Shorter rolls to order
C Thickness	3, 5 or 6 thou 0.076, 0.127 or 0.15mm
Formats	Self-adhesive, non-adhesive, zone tape, crepe-edged
Also supplied	PTFE covers, tubing, cut lengths
Lead time	2 to 3 weeks

i We do not manufacture this tape. A supplier builds it to our specification and we supply it. What we make in our own building are the elements and bands that sit underneath it. **To quote:** machine make and model, or the size off the old roll, and whether your machine clamps the tape or sticks it down.

04 PTFE COATING SERVICE

COATED HERE

We coat metal components in our own building: your parts, or the bands and elements we make. You may know these coatings as Teflon, which is a brand name.



A Coating thickness	10 to 30µm
Largest part	2m ² surface area
Base metals	Stainless steel, mild steel, aluminium
Temperature	To 260°C continuous
Minimum order	£250 value No minimum quantity, single parts are fine
Lead time	2 to 4 weeks Confirmed on request

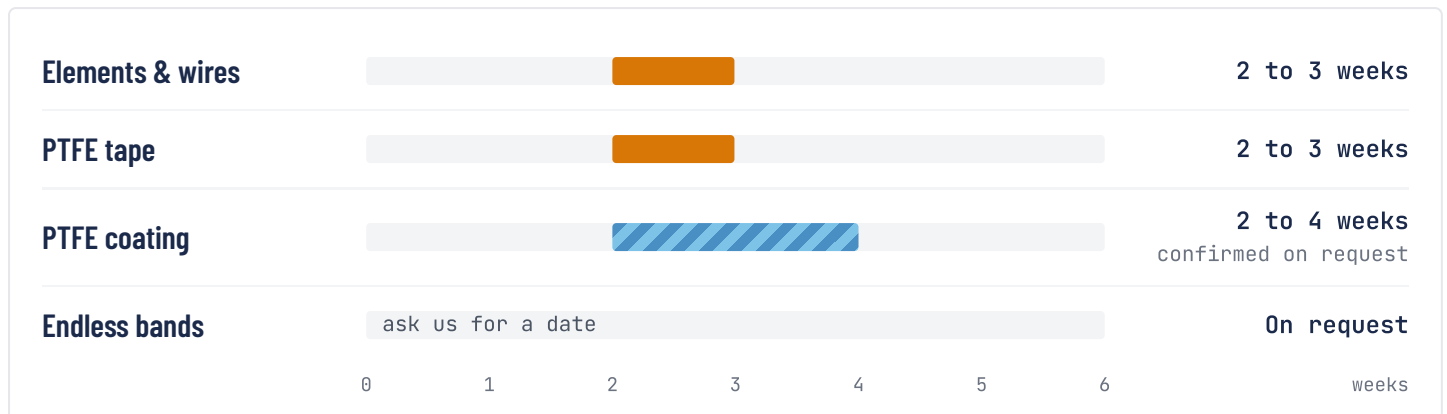
- i** **Sealing jaws.** A jaw that drags, sticks, or leaves a scorched line usually has nothing wrong with the steel. What has gone is the thin PTFE layer on the face, and we strip and recoat it here. We do not make jaw castings, but we can source complete jaws through our partners.

GETTING A PRICE

- i** **You do not need a drawing.** Each product page lists what we need to quote. The machine make and model always helps and often saves a round of questions. If we think you are ordering the wrong thing, we will say so.

- !** **Food contact?** Tell us the requirement when you ask for a coating or a coated part. We will confirm the right coating specification before you order, rather than assume a general-purpose one meets it.

LEAD TIMES



 Typical  Typical, confirmed when you order

Need it faster? Call us. We'll tell you honestly what we can do rather than promise a date we cannot hit.

TELL US ABOUT YOUR MACHINE

Send the dimensions, the machine details, or the worn part itself. An engineer will answer, not a call centre.

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