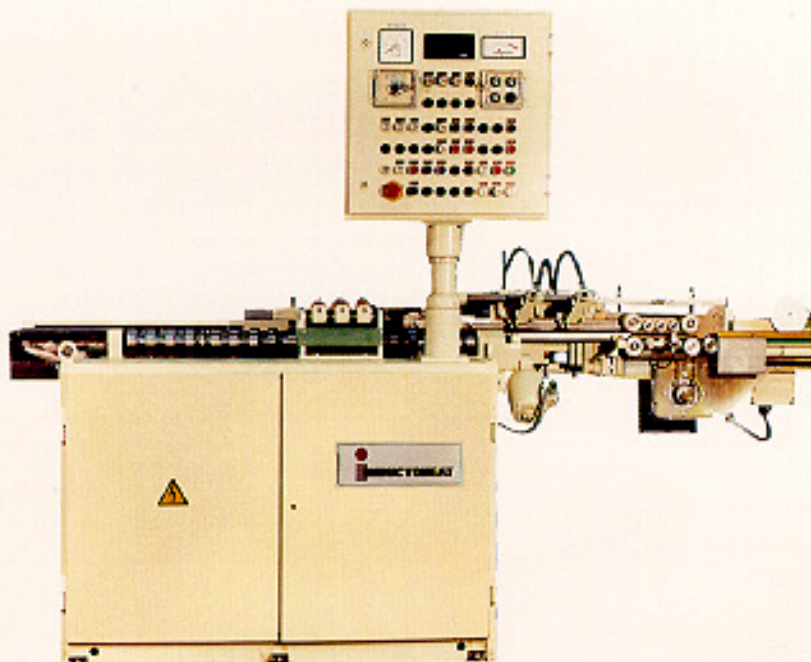


HORIZONTAL SCANNING MACHINE

An In-Line Continuous Feed Hardening Machine
For Parts From $\frac{5}{16}$ " to $1\frac{3}{8}$ " (8 - 35 mm)

Features/Benefits:

- Fast change over for maximum uptime.
- Unique probe arrangement makes partial hardening easy.
- Adapts to a variety of power supplies for maximum application versatility.
- Straight through tractor feed for high production rate.
- Rotation speed and feed rate independently adjusts for the best process capability.
- Easily adapts to in-line induction tempering.
- Built to machine tool standards for reliable performance.
- Backed by the world's leading manufacturer of induction systems.
- Worldwide parts and service ensures maximum system uptime.



High Production, In-Line Hardening system.

Our Horizontal Scan-Hardening Machine is a system for surface hardening of cylindrical components end to end in a continuous feed for high volume production operations. This system can be integrated with many of our solid state high frequency power supplies for either short or long run production. It can also be incorporated into cellular arrangements for intermittent hardening of shock absorber shafts, water pump shafts, heavy duty sewing and knitting needles and many other shaft like parts.

Multiple Tooling Options For Processing Flexibility.

Two hard-chromed plated rolls impart rotation to the part to be heated. Adjusting a hold down rail and centering the inductor is all that is needed to change over to a new diameter part. Moveable split rings can be positioned to suit a specific component, inductor and quench configuration. The part itself is used as a template to adjust the unique probe arrangement for intermittent hardening. A graduated scale on the adjustment shaft allows quick return to previous set-ups.

User-Friendly Controls For Easy Operation.

A two line alpha-numeric display works with a PLC, manual controls and a digital timer to make operation straightforward. The scan speed is controlled by a servo drive and is independent of rotation speed for maximum process flexibility. Scan speed and heat on/off can be controlled by the probe arrangement. There is also a switch for selecting either the english or metric system.



INDUCTOHEAT