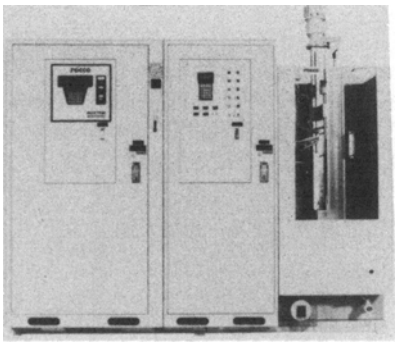
Surface Combustion, Inc. has recently completed testing and shipping of a Gas-Fired VacuDraw Tempering Furnace to Hansen-Balk Steel Treating of Grand Rapids, Michigan. The furnace included the following features: faster furnace evacuation times with larger Stokes Model 412MB pumping system; faster cooling rates with Surface's ***patented internal cooling tube system***; 1450 °F maximum operating temperature for process flexibility; fast and simple locking/unlocking of furnace door with autoclave locking door ring design; and automatic hydrogen addition for clean work within the 1050 °F to 1075 °F temperature range. The four single-ended recuperative burners are rated at a gross input of 125,000 BTU/hr/burner and temperature uniformity was within +10 °F through the operating rang of 700-1450 °F. For further information, contact Ralph Poor, Surface Combustion, Inc., 1700 Indian Wood Circle, PO Box 428, Maumee, OH 43537-9428; tel: 419/891-7146; fax: 419/891-7151.

Michigan Induction Inc. has added a direct gas-fired convection oven to its facility. The new oven will ***increase tempering capacity by 50%***. The oven is equipped with a temperature controller that is capable of ten ramp and soak temperature cycles having ten different points for pre-programmed cycles. Maximum operating temperature is 900 °F. For further information, contact Patrick Williams, Michigan Induction, 8468 Ronda Drive, Canon, MI 48187; tel: 313/459-8795; fax: 313/459-8795.

TOCCO Inc., is offering an induction scan hardening system designed to accommodate the needs of commercial heat treaters. TOCCO will ***pre-set five scanning speeds, in a range from 0.05 to 5.0 inches per second, as selected by the heat treater.*** The TOCCOtrol® 300/305 induction scan hardening system handles workpieces up to 36 inches long. Model #300 handles parts weighing up to 20 lbs. whereas #305 handles parts from 30 to 50 lbs. A choice of 27 power/frequency combinations is offered to respond to varied production demands. For free literature on TOCCOtrol 300/305 induction scan hardening systems, contact Paul Choinard, National Sales Manager, TOCCO, Inc., 30100 Stephenson Hwy., Madison Heights, MI 48071



TOCCO, Inc.

Custom Electric Manufacturing Company offers radiant-type, bayonet heating elements built to OEM specifications, as well as of its own design, for more styles of electric furnaces and ovens. Custom Electric's bayonet elements are performance-matches to ensure efficient furnace and oven operation. Standard elements, fabricated from nickel-chrome, iron-chrome-aluminum or Incoloy, operate within a range of 150 °C to 2100 °F with power ratings from 4 to 65 kW. Users of bayonet elements from Custom Electric report ***up to 50% savings in operating costs,*** attributed to the element design, which gives longer operating life and, in most cases, eliminates the need for transformers. For more information, contact Bob Edwards, President, Custom Electric Manufacturing Company, 48973 West Road, Wixom, MI 48393; tel: 810/305-7700.

A new four-color, six-page brochure describing a new design in roller hearth furnaces is now available from **Lindberg, A General Signal Company.** The new Lindberg roller hearth furnace combines accurate process control, consistent results, and flexible, cost-efficient operation. It employs unique design features that result in the lowest operating cost per pound for this class of equipment. The new brochure describes the unit's single-end radiant heating system, combined with Lindberg's Moldatherm® ceramic fiber insulation, which ***minimizes heating cost.*** The system's rugged alloy roller hearth is designed to support a full load statically, without warping. The continuous, multizone atmosphere system and controlled cooling chamber ensure optimum metallurgical properties. For a copy of Bulletin 15200 on the new Lindberg Roller Hearth Furnace System, write Lindberg, A General Signal Company, 304 Hart Street, Watertown, WI 53094; or telephone 800/873-4468; fax: 414/261-4962.

A family of new compliant Feltmetal fiber metal materials, which combines insulating properties, mechanical strength, elasticity, and oxidation resistance to provide temperature ***insulating capability up to 2000 °F***, is now available from **Technetics Corporation**. The low-density fiber metal insulation is ideal where low thermal conductivity and mechanical integrity are required. It is available in a number of alloys including stainless steel, nickel alloys, aluminum, and FeCrAly. For further information, contact Technetics Corporation, 1600 Industrial Drive, Deland, FL 32724; tel: 904/736-7373; fax: 904/738-4533.
