



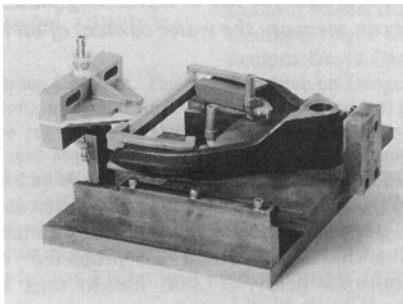
ORPAC, Inc. has introduced **PYR-RHOS-1600** for *high-temperature color coding of metals, ceramics, and most surfaces to above 1600 °F in all atmospheres*. The paint is ideal for product identification during heat treating and high temperature processing. **PYR-RHOS-1600** is a water-based paint containing no VOCs that can be easily applied by brush or air-spray. Painted surfaces become fully water proof after a low temperature cure. For further information, contact **ORPAC, Inc.**, PO Box 5436, Oak Ridge, TN 37831; tel: 615/482-4635; fax: 615/482-1281.

A high-density calcium-silicate board developed for die casters, **M-68**, as been introduced by **Pyrotek**. The *board is specifically formulated for die cast holding furnace linings* and provides greater resistance to mechanical damage caused by furnace skimming and cleaning. **M-68** resists shrinkage at service temperatures to 760 °C (1400 °F), which helps maintain the integrity of furnace lining joints. Applications include skim dams, baffles, and launders. For further information, contact **Anna Henry, Pyrotek**, E. 9503 Montgomery Ave., Spokane, WA 99206; tel: 509/926-6212; fax: 509/927-2408.

Cogebi, Inc. has introduced *a line of asbestos-free coil protection and slip plane mica-based material for use in induction furnaces*. These materials resist temperatures to 2200 °F and are used in channel furnaces between a high-temperature insulating board and the outer steel shell. A variety of thicknesses and sizes are available. For further information, contact **Cogebi, Inc.**, 14 Faraday Drive, Dover, NH 03820, tel: 603/749-6896; fax: 603/709-6958.

A leading supplier of automotive components has been able to meet heat treating specifications by converting split-return 450-kHz induction coils to **POWER COILS** by application of **FLUXTROL** flux field concentrators manufactured by

FLUXTROL Manufacturing, Inc. **FLUXTROL B**, formulated for power ratings from 10 kHz to 450 kHz was used for the shifter fork coil. *POWER COILS improve cycle times and energy requirements, as well as improve control over heat patterns and case depth*. For further information, contact **FLUXTROL Manufacturing, Inc.**, 1150 E. Big Beaver Rd., Troy, MI 48063; tel: 313/689-1155; fax: 313/689-1129.



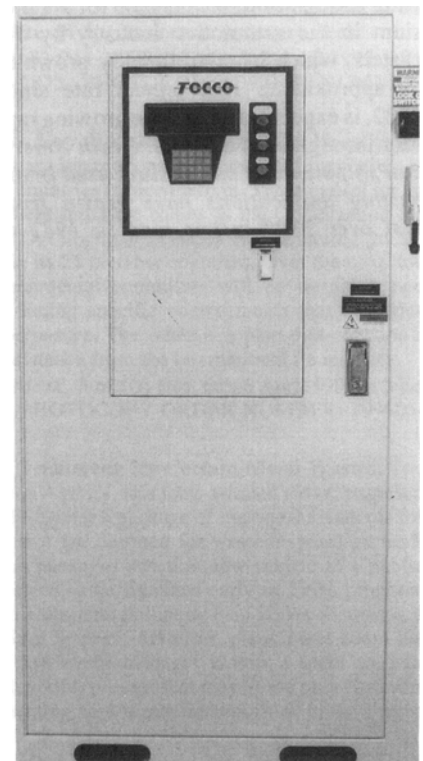
FLUXTROL Manufacturing Inc.

The Woburn Division of Industrial Heat Treating, Inc. has received *National Aerospace and Defense Contractors Accreditation approval*. Formerly known as **VacHyd Boston**, this division will continue to provide thermal processing and brazing support to the Aerospace and Commercial communities. The division is also an approved **FAA Repair Station**.

LOI ESSEN Industrieofenanlagen GmbH has developed *a muffle-heated tower-type furnace for the bright annealing and continuous recrystallizing of ferritic and austenitic stainless steel strip*, in maximum widths ranging from 300 to 1550 mm, in a pure hydrogen atmosphere. A special feature of this furnace is the muffle wall temperature of 1200 °C. In addition, the furnace has a zoned control system adapted to the specific appellation and a high capacity of up to 12 tph. For further information, contact **Dr. Iris Bertozzi, LOI GROUP**, Moltkeplatz 1-45138

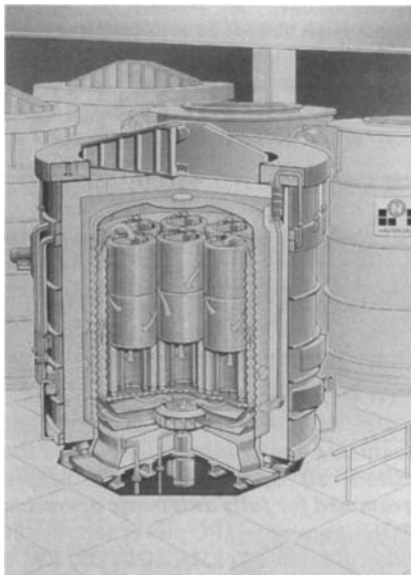
Essen, Germany; tel: 201/1891-277; fax: 201/1891-211.

TOCCO, Inc. has introduced *a solid state, radio frequency power supply featuring a microprocessor control that allows all operations to be preprogrammed for fully automatic operation*. **TOCCOtron SS MPC** power supplies are rated at 30 to 200 kHz, 10 to 200 kW, or 30 to 50 kHz, 10 to 800 kW. Other features are built-in diagnostic routines and a remote communications capability. For further information, contact **Paul Choinard, TOCCO**, tel: 810/399-8601; fax: 810/399-8603.



TOCCO, Inc.

NASSHEUER LOI Industrieofenanlagen GmbH offers *a high-performance*

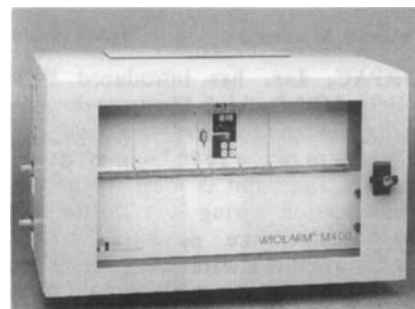


NASSHEUER LOI Industrieofenanlagen GmbH

bell-type annealing plant for homogenizing and recrystallizing wire coils. The plant is supplied with advanced high-performance hydrogen technology, using an annealing atmosphere of pure hydrogen which warrants cleaner surfaces on drawing wire and higher plant productivity. The extremely low temperature tolerances in the furnace ensure extremely homogeneous structures in the products treated. For further information, contact Dr. Iris Bertozzi, LOI GROUP, Moltkeplatz 1-45138 Essen, Germany; tel: 201/1891-277; fax: 201/1891-211.

LVE Process Electronics has developed a microwave system for the rapid measurement of water concentrations in oil quench baths. The WIOLARM M400 has been designed as an on-line measurement system for use in hardening plants. It can measure the water content of oil in

less than 1 second, regardless of oil temperature or density. Sensitivity is within 0.1%. For further information, contact Dr. Iris Bertozzi, LOI GROUP, Moltkeplatz 1-45138 Essen, Germany; tel: 201/1891-277; fax: 201/1891-211.



LVE Process Electronics

Miscellaneous

According to the **International Magnesium Association**, the demand for magnesium in the automotive industry by die casters, which has traditionally grown at an approximate 15% annual rate since 1982, is expected to continue growing rapidly throughout the 1990s. *North American shipments of magnesium used in die casting applications have grown from just over 3500 metric tons in 1982 to*

approximately 31,000 metric tons in 1994. An estimated 80% of these die casting applications are found in the automotive industry, which is projected to consume nearly 77,000 metric tons in North America by 1999.

Total crude steel production in Japan reached 100 million metric tons for the

first time in three years, for fiscal 1994 (April 1994-March 1995). Nippon Steel Corporation produced 26.5 million metric tons, up from 25.4 million tons in the previous year. Because average steel prices have fallen by more than 15% during the past two years, companies like Nippon are making major reductions in costs in order to maintain profits.