

# Hotspot

**Lepel Corporation** has introduced its MR-Series of *100% solid state power supplies*, which feature a manually adjustable multi-tapped tank coil for matching a wide



Lepel Corporation

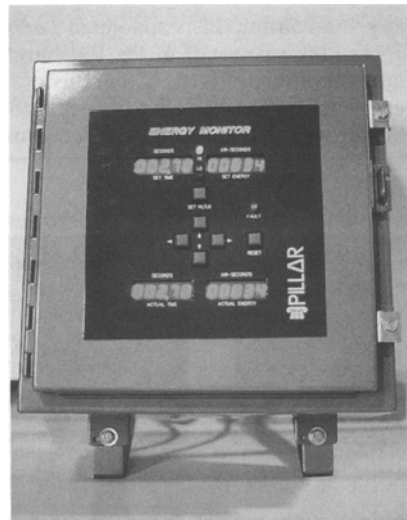
range of load coils. Power output and output frequency ranges from 0.5 to 25 kW and 100-400 kHz, respectively. It prevents circuit overload, excessive temperatures, and over frequencies with built-in protective devices while minimizing energy costs with conversion efficiencies of 85 to 90%. For further information, contact Lepel Corporation, 50 Heartland Boulevard, Edgewood, NY 11717; tel: 516/586-3300; fax: 516/586-3232.

**Bickley Inc.** is filing patent applications for its *Rapid-Pulse firing system, which can achieve up to 30% fuel savings compared with conventional systems.* The one-second pulse rate of the system provides the more gradual heating required by sensitive products. Each burner has a minimum firing rate as low as 1000 BTU/hour and a maximum firing rate as high as 1.5 million BTU/hour. For further information, contact Bickley Inc., 550 State Road, PO Box 369, Bensalem, PA 19020; tel: 215/638-4500; fax: 215/638-4334.

**FR.u.H. Luling**, a steel wire producer of Altena, has awarded Nassheuer Loi a *contract to supply a high-performance bell-type annealing plant for the heat treatment of cold upsetting wire* in a hydrogen or nitrogen atmosphere. The plants designed for charge weights up to 70 tonnes and will be one of the largest of its type

in the world. For further information, contact Georg Biekehr, LOI-GROUP, Moltkeplatz 1, 45138 Essen, Germany.

**The Pillar Michigan Induction Center** has developed and field proven an *updated quality assurance system that reduces process operation costs in induction heat-*



Pillar Michigan Induction Center

*ing and heat treating applications.* The system is designed around Pillar's Energy Monitor, which provides independent verification of each heating cycle by monitoring both the kW seconds and the time to ensure consistent energy input to the part. For further information, contact Dick Martin, Pillar Michigan Induction Center, 1400 N. Woodward Ave. #165, Bloomfield Hills, MI 48304; tel: 810/644-7900.

**Drever Company** has received an *order from Sung Won Pipe Company of Korea for a 460-mm wide mesh belt furnace for annealing stainless steel tubing.* This furnace is rated to bright anneal 450 kg/hour of austenitic stainless steel tubing and is designed with a high speed convection cooling section. Shipment was scheduled for the 2nd quarter of 1995.

**ASCOMETAL** has awarded Nassheuer Loi of Troisdorf a *contract to supply, install and commission two chamber furnaces for the non-decarburization spheroidizing of steel bars in a nitrogen atmosphere.* The project includes two identical roller hearth chamber furnaces complete with roller tables, annealing racks, instrumentation and control systems. In the first stage of the project, an annealing capacity of 1000 tonnes per month will be reached. The furnaces will be designed for treating bars with diameters from 18 to 80 mm and lengths up to 13 m. For further information, contact Georg Biekehr, LOI-GROUP, Moltkeplatz 1, 45138 Essen, Germany.

**Davy International** has announced the *completion of Bethlehem Steel Corporation's C-4 Blast Furnace Reline project*



Davy International

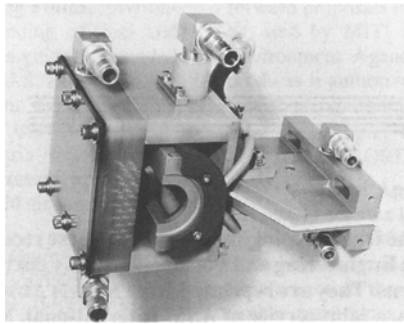
*in Indiana.* During the three month rebuild, Davy replaced the furnace refractories, the hearth shell plate, tuyere breast, bosh shell plate, and 40 feet of stack shell plate. Both the east and west casthouse floors were replaced with the addition of new tilting iron runners. For further information, contact Davy International at 412/566-3330.

**Surface Combustion, Inc.**, under sponsorship from Gas Research Institute, is *developing an advanced gas-fired ceramic radiant tube heating system capable of providing operating temperatures up to 2350F in a vacuum heating environment.* The system will incorporate a

multi-chamber design featuring a standard heating chamber capable of  $\pm 10^\circ\text{F}$  temperature uniformity. The heating chamber can then be combined with any of several cooling chambers to meet the specific process application. The furnace design will also allow for convective heating and cooling, interrupted quenching capability, and be significantly less sensitive to impurities being driven off workpieces in the heating chamber than traditional electric vacuum furnaces. For further information, contact John A. Collins at Surface Combustion, Inc.; tel: 419/891-7121.

---

A manufacturer of automotive axle shafts and automotive gears has *reduced induc-*



FLUXTROL Manufacturing, Inc.

*tion heating cycle times by 26% and 54%*, respectively, by converting conventional single-shot induction heating coils into

Power Coils. The enhanced coil also improved the heat pattern in the fillet area of the axle shafts for improved metallurgical properties and fewer rejects. Power Coils are inductors enhanced by the application of a flux field concentrator produced by **FLUXTROL Manufacturing, Inc.** Any size or style induction heating coil can be converted to a Power Coil by applying a FLUXTROL coil concentrator. Coil performance is improved by concentrating energy on the area of a part to be heated. For further information, contact FLUXTROL Manufacturing, Inc., 1150 E. Big Beaver Rd., Troy, MI 48083; tel: 313/689-1155; fax: 313/689-1129.

---