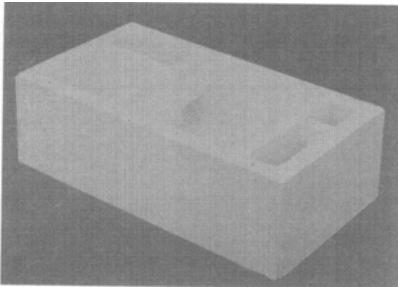


Hotspot

Precast refractory linings for gas-fired and electric holding furnaces, from Pyrotek, offer new alternatives for die casters. The drop-in linings minimize the downtime associated with casting lining replacements on-site. Used with backup insulation, the cast liners can provide lower shell temperatures and higher heat retention over board-lined furnaces, without impacting holding capacity. Castable selections are rated to withstand temperatures up to 3100 °F, while backup insulation selections can help achieve shell temperatures as low as 120 °F. Premolded grooves allow baffles to be slotted into place and secured using a mortar compound. For further information, contact: Pyrotek, Corporate Office, 9503 E. Montgomery Ave., Spokane, WA 99206; tel: 509/926-6212; fax: 509/927-2408.



Pyrotek

Marathon Monitors Inc. has been awarded a contract from an automotive component supplier for **the reinstrumentation of eight U.S. heat-treat facilities**. The project will include new atmosphere and temperature controls for 187 furnaces. The project will utilize Marathon's Ultracarb 4000 probe-plus-infrared atmosphere control system for accurate atmosphere control. The data acquisition software will be Process Master for Windows. For more information, contact: Marathon Monitors Inc., 3100 E. Kemper Rd., Cincinnati, OH 45241; tel: 800/322-4444 or 513/772-7788; fax: 513/772-7853.

Owego Heat Treat Inc. has been awarded certificate 0150 from the Performance Review Institute as an **approved heat treating subcontractor under the National Aerospace and Defense Contractors' Accreditation Program** for initial accreditation. The company's process control and related quality systems are approved through continuing audit procedures. They demonstrate conformance to the applicable aerospace and military specification requirements for various material systems and related heat treating processes. For more information, contact: Owego Heat Treat Inc., 1646 Marshland Rd., Owego, NY 13732; tel: 607/687-2091 or 607/785-8061.

Accreditation Program for initial accreditation. The company's process control and related quality systems are approved through continuing audit procedures. They demonstrate conformance to the applicable aerospace and military specification requirements for various material systems and related heat treating processes. For more information, contact: Owego Heat Treat Inc., 1646 Marshland Rd., Owego, NY 13732; tel: 607/687-2091 or 607/785-8061.

The Toccotron SS Bench Top Power Supply, made by Tocco, is a **solid-state power supply developed for higher frequency induction heating** and designed for processing small parts that require precise control of narrow heat patterns. For more information, contact: Tocco Inc., P.O. Box 447, Boaz, AL 35957; tel: 205/593-7770 or (Canada) 905/684-9152.

Blue Blade Steel has completed a 13,500 ft² addition to its strip steel manufacturing plant. The space will be used for a metallurgical lab. Also operational is a **custom-engineered heat-treating furnace line**. For more information, contact: Blue Blade Steel, 123 N. 8th St., P.O. Box 40, Kenilworth, NJ 07033-0040; tel: 908/272-2620; fax: 908/272-8252.

The Ultracarb 4000 from **Marathon Monitors** combines the convenience and speed of response of an oxygen probe with the accuracy of multigas infrared measurement to provide **atmosphere control for heat treating applications**. Multicarb IR and DualPro instruments produce two carbon readings, which are then compared and adjusted for accuracy. For more information, contact: Marathon Monitors Inc., 3100 E. Kemper Rd., Cincinnati, OH 45241; tel: 800/322-4444 or 513/772-7788; fax: 513/772-7853.

An eight-page application note from **Eurotherm Controls Inc.** contains **information about the carburizing process**: types of carburizing furnaces, elements of control zone, and zirconia sensor theory. The company's 900EPC controller for carburizing furnaces is also highlighted. For more information, contact:

Eurotherm Controls Inc., 11485 Sunset Hills Rd., Reston, VA 20190-5286; tel: 703/471-4870; fax: 703/787-3436; e-mail: sales@controls.eurotherm.com; web: <http://www.eurotherm.com>.

A brochure describes **Radyne's Power Integrated Pop-Up** arrangement, with a range from 100 to 300 kW at frequencies from 3 to 30 kHz. The system has three positions, and parts can be loaded above or below the induction coil. Operator interface is through a touch screen. For a copy, contact: Radyne, 211 W. Boden St., Milwaukee, WI 53207-6277; tel: 800/236-8360; fax: 414/481-8303; e-mail: radyne@execpc.com.

A brochure from **Rolled Alloys** features **alloy performance guides and inventory data** for heat-resistant alloys RA309, RA310, RA330, RA321, RA 153 MA, RA 253 MA, RA 353 MA, RA85H, RA600, and RA601. Highlighted are composition, mechanical, and physical properties and applications data. For a copy, contact: Rolled Alloys, 125 W. Sterns Rd., Box 310, Temperance, MI 48182-0310; tel: 313/847-0561; fax: 313/847-6917 or 800/521-0332.

An automated system developed by **Pillar Industries** **induction hardens the wear areas of brake shoe webs**. Four internal radius grooves can be selectively case hardened simultaneously. The system can process several families of parts. The operator magazine feeds two stacks of brake shoe webs into the heating position. After hardening, the parts are dropped on the conveyor and sent out the back end of the machine. For more information, contact: Richard Martin, Pillar Michigan Induction Center, 2285A N. Opdyke Rd., Auburn Hills, MI 48326; tel: 810/475-5580; fax: 810/475-5587 or 800/475-5580.

The OTC25 **Digital Temperature Controller** is the subject of a brochure from **Athena Controls**. The temperature controller has adjustable output hysteresis to prevent rapid cycling around set point temperature and an adjustable deviation alarm that flashes when measured temperature exceeds or falls below set point

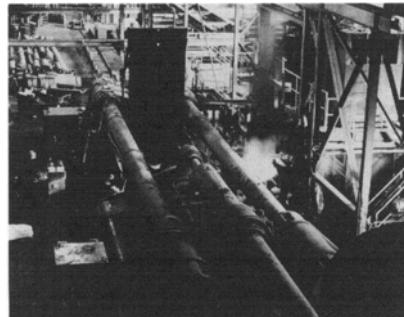
temperature. For a copy, contact: Athena Controls Inc., 5145 Campus Dr., Plymouth Meeting, PA 19462; tel: 610/828-2490 or 800/782-6776; fax: 610/828-7084.

A *custom-built electric furnace* from **Carbolite** has provided Darwins Alloy Castings with heat treatment facilities for products in 250 grades. The top-hat style furnace is for regular use at temperatures from 1400 to 2000 °F, and can occasionally be set at its 2300 °F maximum temperature. The furnaces has internal chamber dimensions of 40 × 40 × 40 in., with elements positioned on all four sides of the "top hat" and in the hearth, for temperature uniformity in the chamber. For loading and unloading, the furnace "hat" is raised by an electric hoist. Charges are carried on a rail-guided vehicle. For more information, contact: Carbolite Inc., 110 S. Second St., Watertown, WI 53094;

tel: 414/262-0240; fax: 414/262-0255; e-mail: sales@carbolite.com.

additional information, contact: Carpenter Technology Corp., Reading, PA 19601; tel: 610/208-2524; fax: 610/208-2858.

International Extruded Products, Buffalo, NY, *extruded AerMet-for-Tooling alloy*, a *steel* from **Carpenter Technology Corporation**, into a 16 in. diam, 68 in. long, 3950 lb alloy billet. The extrusion was designed to serve as a tooling container for the production of aluminum shapes. For



Carpenter Technology Corporation

Two releases from the **Metal Treating Institute** showed that *July 1996 sales in the metal treating industry climbed 15% and August 1996 sales climbed 1.9%* over the same months in 1995. For the year to August, the Pacific Coast, the Southwest, and Canada are doing well, with respective gains of 16.0%, 12.6%, and 3.6%, while the rest of the United States has seen little change from 1995. Total July sales were \$58.4 million, while August sales were \$62.4 million. For more information, contact: Metal Treating Institute, 1550 Roberts Dr., Jacksonville Beach, FL 32250-3222; tel: 904/249-0448; fax: 904/249-0459; e-mail: metaltreat@aol.com; web: <http://www.industry.net/metaltreat>.