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# Hotspot

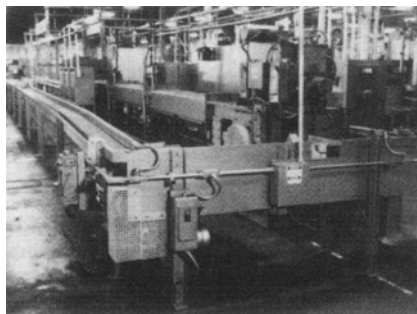
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Michigan Induction has *upgraded its metallurgical laboratory with software that performs statistical evaluation* of product and process characteristics for the induction process, gears, shafts, and various component parts. The laboratory also has a collection of sample mount preparation and analysis equipment that includes a Nikon Epiphot Metallograph, a micro-hardness tester, wet saws, and Rockwell hardness testers. For more information, contact: Michigan Induction, 8468 Ronda Dr., Canton, MI 48187; tel: 313/459-8514; fax: 313/459-8795.

Super Systems Inc., a manufacturer of carbon probes and heat treating control systems, and Barber-Colman Company, Cincinnati, OH, *have signed a partnership agreement*. The venture, named Super Systems, a Barber-Colman Systems Partner, will provide customers with integrated heat treat control systems.

Flame Treating Systems has built model 4236, *a machine that flame hardens crane wheels* for Konecranes Components, Hyvaanka, Finland. The spinning machine rotates either straight or grooved wheels on a platform hydraulically raised or lowered and surrounded by four flame heads. Wheels range from 20 to 80 cm (8 to 30 in.) diameter with groove widths to 20 cm (8 in.). Flame heads and yokes are designed to provide constant hardness depth along the tread and up the flange. Hardnesses obtained on type 4140 steel wheels are 450 to 600 HV (45 to 55 HRC) on the wheel surfaces, and 400 HV (40 HRC) at depths of 2.7 to 5.1 mm (0.1 to 0.2 in.). Cycle time including quenching is 2 to 5 min. The machine can heat treat 40 wheels in an 8-h day. For more information, contact: FTSI Inc., 715 E. Geer St., Durham, NC 27701; tel: 919/956-5208; fax: 919/956-5057.

Seco/Warwick, a heat treat furnace manufacturer, has formed a product team for *Aluminum Solution Heat Furnaces*. Jack Mahoney will be team leader. Traditional walking beam furnaces are shown in the photo. For more information, contact:



Seco/Warwick

Seco/Warwick Corp., 180 Mercer St., Meadville, PA 16335-3618.

The Beavermatic BHV *vacuum furnace* is designed for tool rooms and other specialized applications. The 60 by 90 by 50 cm (24 by 36 by 20 in.) furnace operates at temperatures up to 1300 °C (2400 °F) and has a load capacity of 270 kg (600 lb). For more information, contact: Kary Peterson, Beavermatic Inc.; tel: 815/963-0005; fax: 815/963-5673.

Macsteel has completed the *third phase of a \$135 million expansion of its heat treat facilities* in Fort Smith, AK, and Jackson, MI. A furnace and bar straightener were added to the company's Fort Smith plant. Both plants are undergoing refinements to charging and output tables so heats of bars may be staged and handled more efficiently. For more information, contact: Macsteel, General Office, One Jackson Square, Ste. 500, Jackson, MI 49201; tel: 1/800/876-7833; fax: 517/782-8736.

Tocco, an induction heating system manufacturer, *has acquired Eddycurrent Machinery Agents*, Birmingham, England, an induction heating company. Peter Smith, Tocco's United Kingdom sales manager, has been named director of operations for Tocco European Operation. For more information, contact: Tocco Inc., Headquarters & Mfg. Operations, 1506 Industrial Blvd., P.O. Box 447, Boaz, AL 35957; tel: 205/593-7770; fax: 205/593-4735.

The Fall/Winter 1996 *Metal Minutes*, an eight-page newsletter from Seco/Warwick, includes articles on walking-beam furnace technology for powder injection molding, aluminum braze team news features, and an aluminum rod facility recently built in Europe. For a copy, contact: Seco/Warwick Corp., 180 Mercer St., Meadville, PA 16335-3618.

The Ultra-Probe from Marathon Monitors is a *carbon probe*. A patent-pending focused burn-off system supplies the probe with virtually instant recovery. Special alloy is used for the sheath to diminish error-generating catalytic action and surface pitting. For more information, contact: Marathon Monitors Inc., 3100 E. Jemper Rd., Cincinnati, OH 45241; tel: 1/800/322-4444; fax: 513/772-7853.

The Grieve No. 698 is an *inert-atmosphere electric box furnace with a forklift power motor*. 168 kW of heat input is separated into two independent zones of control with maximum operating temperatures of 1090 °C (2000 °F). Workspace dimensions are 120 by 240 by 170 cm (48 by 96 by 66 in.). One aircraft engine manufacture is using this furnace for heat treating of fan jet blower wheels. For more information, contact: Grieve Corp., 1540 E. Dundee Rd., Ste. 250, Palatine, IL 60067-8311; tel: 847/934-4500; fax: 847/934-4720; e-mail: bandC@interaccess.com.

HitecMetal Group (HTG) *has acquired Solder Craft Inc.*, Plymouth, MI, a sub-contract copper brazing and welding facility. The geographic location of the company will locate HTG closer to the automotive OEM market. For more information, contact: HitecMetal Group, 1101 E. 55th St., Cleveland, OH 44103-1046; tel: 216/881-8100; fax: 216/881-6811.

Laser Machining Inc., a company that specializes in laser welding, cladding, and heat treating, *has added two 6 kW and one 12 kW CO<sub>2</sub> lasers* to its existing 31 laser systems. The company *has also broken ground for a 9000 m<sup>2</sup>* (30,000 ft<sup>2</sup>) addi-

tion to its present 21,900 m<sup>2</sup> (73,000 ft<sup>2</sup>) facility. For more information, contact: Laser Machining Inc., 500 Laser Dr., Somerset, WI 54025; tel: 715/247-3285; fax: 715/247-5650.

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**Michigan Induction** is *performing induction consulting*. The lab will advise on induction capital equipment requirements, power supply matching, induction tooling, and associated processing parameters. For more information, contact: Michigan Induction, 8468 Ronda Dr.,

Canton, MI 48187; tel: 313/459-8514; fax: 313/459-8795.

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**Carl Hayes** was elected President and **Douglas Perks** elected Second Vice President for 1997 of the *Industrial Heating Equipment Association*, Arlington, VA. Mr. Hayes is President, C.I. Hayes Inc. and Hayes Heat Treating Corporation, Cranston, RI. Mr. Perks is President and CEO of Eclipse Inc., Rockford, IL.

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**ICI Americas** has available the Saffil High Density Blanket in 1.2 and 2.5 cm (0.5 and 1 in.) thicknesses. This *polycrystalline alumina fiber blanket for insulation modules resists thermal shrinkage and chemical attack* to 1600 °C (2900 °F). The 96% alumina, 4% silica blankets contain less than 0.5% impurities. The median fiber diameter is 3.0 mm (0.0001 in.). For more information, contact: ICI General Chemicals, Concord Pl., Tatnall 2, 3411 Silverside Rd., P.O. Box 15391, Wilmington, DE 19850; tel: 302/887-4160.

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