

New for 2008!

Just another reminder that MSC's product coverage has been revamped for 2008 to highlight a collection of exciting products each month. In general, these products have been introduced within the past six months. All products submitted are considered for publication, and we encourage submittals related to all segments of the steel industry: engineering, detailing, fabrication, and erection. Submit product information via e-mail to Keith Grubb (grubb@modernsteel.com) or Geoff Weisenberger (weisenberger@modernsteel.com).

We've also recreated the previous format of the products section online in a searchable database of product producers. You can browse producers by category or search for specific terms to find the products you need. Check it out at www.modernsteel.com/products. To be listed in the product directory, e-mail Lou Gurthet (gurthet@modernsteel.com). In addition, this online database lists contact information for all AISC-member detailers.



A Winning Combination

The Champion 10,000 welder/generator from Hobart Welding Products offers a two-for-the-price-of-one deal. Every buyer gets a generator and a welder for a price that some people pay for a generator alone. Powered by either a 20-hp OHV, twin-cylinder Kohler engine or a 22-hp OHV Subaru engine, this machine produces 10,000 watts of peak auxiliary power and a 210-amp constant-current DC weld output at 60% duty cycle.

The Champion 10,000 boasts 9,500 watts of continuous power (while not welding) from four 120-V (20-amp) receptacles and one 120/240-V (50-amp) receptacle. All receptacles feature push-button reset circuit breakers. Auxiliary power is not available while welding.

The unit provides excellent starting capabilities for motors in the 3- to 5-hp range. It can run for up to nine hours on one 10-gallon tank of gas under a steady load of 4,000 watts. Unlike competing units, the rheostat does not have to be set to maximum for full auxiliary output.

On the welding side, the Champion 10,000 features Hobart's patented Field Current Control (FCC) technology for smooth stick arc starts with minimal sticking of the rod. The FCC monitors feedback from the welding arc and continuously adjusts the current from the generator to maintain optimum arc characteristics.

The Champion 10,000 has a 50- to 230-amp output for welding with 6010, 6011, 6013, and 7018 rods up to $3/16$ in., and 7014 and 7024 rods up to $5/32$ in. The machine is also suitable for general scratch start DC TIG and limited flux-cored welding (CC flux-cored welding only). In addition, it can be used for MIG welding aluminum when paired with the optional Olympic 30A spool gun and HWC-115A weld control.

For more information, visit www.hobartwelders.com or call 877.HOBART1.

Keeping Tabs on Cranes

Hirschmann Automation and Control (PAT) has introduced the TRS 05 wireless system upgrade. The TRS 05 gives crane owners the flexibility to incorporate wireless sensors into existing hardwired systems. The TRS 05 is compatible with most Hirschmann/PAT systems on hydraulic or lattice boom cranes. The module will monitor up to four wireless sensors at one time and utilizes the existing console and hardware. Hirschmann's industry-proven wireless sensors install quickly and easily in the field and have an operating range of up to 1,000 ft. Sensor options include anti-two block, load, angle, and wind speed. Frequency Hopping Spread Spectrum Technology (FHSS) is utilized to ensure accurate and consistent reception of data and provides additional protection against interference common to construction job sites. The TRS 05 contains unique, serialized transmitter identifiers that are used to ensure proper operation when other cranes are working in the area. The TRS 05 is pre-wired for quick and easy installation and is also available with an optional repeater or as a standalone system.

For more information, visit www.hirschmann-usa.com or call 717.217.2216.



Make Cuts More Accurate

Pat Mooney, Inc. – The Saw Company's Pro Pegasus DS Mitre Semi-Automatic Saws include heavy-duty mechanisms for efficient operation. Featuring 1¼-in.-wide saw blades, these precision gear-drive saws provide 40% greater beam strength than saws with 1-in.-wide saw blades; greater beam strength results in faster, more accurate sawing. An electronic display of the cutting angle also enhances precision, as operator set-up errors are eliminated.

The Pro Pegasus performs semi-automatic operations, including positive hydraulic cutting control, hydraulic clamping, and auto return of the saw head after the cutting cycle. Its swivel saw head mitre cuts up to 60° both left and right. This saw head easily rotates via a rack-and-pinion system.

Further contributing to its precise performance are its solidly constructed machine base with locking cabinet, precision carbide blade guides with roller guides, and case-hardened and ground helical gears.

Infinitely variable blade speeds from 50 – 400 FPM are controlled via the saw's inverter. Cutting capacities for the Pro Pegasus DS are 12½ in. by 20 in.

For more information, visit www.patmooneysaws.com or call 800.323.7503.



Precision Lubrication

UNIST, Inc.'s LVSS (low-volume spray system) is designed specifically for metalforming die lubrication. The system provides precision spray to lubricate parts and tooling and addresses those with unique requirements or that need more lube than the coil stock lubrication process provides. The scalable, programmable system allows for complete control of air and fluid applied to metalforming dies. It is also effective in progressive, transfer, and secondary operations.

The UNIST SPR 2000 Programmable Lubrication Station is used to control the sequencing, duration, and frequency of nozzle actuation for the LVSS. The system can be programmed with up to 250 job setups. Once a setup is entered, it is simply recalled the next time it is needed. Fluid and air volumes are managed using separate needle valves located on the nozzle, providing control to direct the right amount of fluid to the desired surface. When using the LVSS, pressurized fluid is always available at the nozzle assembly, delivering the capability to apply fluids and lubricants in minute quantities at the exact rate and volume required by each job.

The LVSS can stand alone or be integrated with a Uni-Roller coil stock lubrication system, using a single SPR 2000 for both. One controller can operate up to 22 nozzles or a combination of rollers and nozzles. A retrofit kit can be added to SPR 2000 controllers already in service, or the complete system can be ordered from the factory. A UNIST representative should assist you in deciding whether the LVSS, a traditional SPR 2000 system nozzle, or the Uni-Roller is the best choice for your specific application.

For more information, visit www.unist.com or call 800.253.5462.

Drill Without Overheating

CS Unitec's new ECO-30/3P is a portable, compact, and light-weight magnetic drill with a patented power-assist mechanism to reduce both feed pressure and load on the cutter and motor to prevent motor burnout and cutter breakage. This allows the machine to maintain a maximum RPM under full load.

The ECO-30/3P has a strong 7.5-amp/110-volt motor that is double-insulated to increase operator safety. Using annular cutters, the operator

can quickly drill up to 1⅛-in.-diameter holes. Superior holding strength of 3,300 lb is provided by a high-density dual-coil magnet with TEMPTEC technology to ensure that the magnet does not overheat. When the magnet is switched on for long periods of time, the coils can overheat or even burn out. The TEMPTEC feature is standard with this model and reduces the power to the magnet when the drill motor is not active and, therefore, will not build up heat.

This ultra-compact drill is 12¼ in. high with a 2¾-in. stroke and weighs only 22 lb, making it portable and easily transportable between work areas. The unit's standard equipment includes an integrated auto lubrication system, carrying case, chip guard, safety chain, carabin hook, gloves, safety glasses, ear protection, and allen keys.

For more information, visit www.csunitec.com or call 800.700.5919.

