

Metropolitan Industries

Romeoville IL, USA

DST50 BACKS UP INDUSTRIAL MARKET

3-Phase auxiliary power makes debut

After years of development and design, Metropolitan Industries is pleased to announce the production and availability of the DST50, the first 3-phase battery back-up system for industrial markets.

This new product (patents pending), is designed to provide uninterrupted power to a duplex pumping system or any 3-phase motor application up to 5 HP. The DST50 utilizes line power until the system deems it unusable or a power outage occurs. During this time, the DST50 will automatically switch to reserve power, which consists of six bus batteries. According to the design team at Metropolitan Industries, the result is the first product able to handle industrial applications.

Similar products on the market run computers or network systems that use loads which are less demanding. The DST50 will handle industrial loads associated with pumping applications, machinery, manufacturing or anywhere that high torque demands are required.

Given the amount of brown outs or blackouts in the Chicagoland area, Joseph Sanchez, director of public relations, says there should be a strong demand for a product of this nature. According to Sanchez, all types of industries will benefit from the DST50 during times of power failures.

Some notable features include the ability to integrate and monitor the DST50 through a build-

ing management interface. Users can also access the system status via Internet with a wireless modem. The DST50 utilizes Metropolitan's patented Intellipump control software system that monitors and controls flow operation of the panel and automatically re-sequences floats in the event of a float failure.

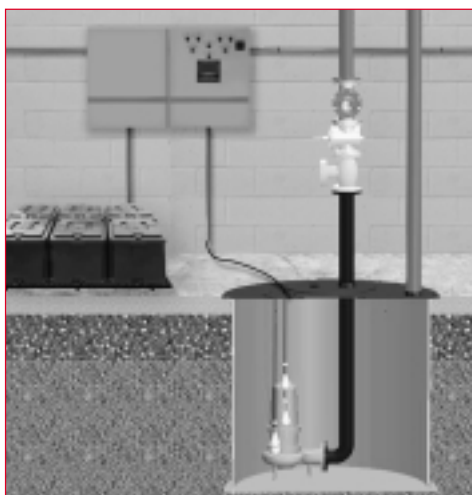
Other features include a LCD readout that continuously advises and informs users of the system's status. The DST50 comes equipped with phase loss protection that prevents motor over-heating and winding losses. All controls come housed in one enclosure.

The experience Metropolitan Industries, Inc. has in back-up systems does not begin with the DST50. For over a decade, Metropolitan has designed, marketed and sold the SUMPRO which is the residential version of their back-up system used for sump pumps, computers, refrigerators or wherever back-up power is needed.

John Kochan, Jr., president of Metropolitan Industries, Inc., is eager to gauge reac-

tion to the new product. "There is a need for this product in the industrial sector. The unveiling of this product during the next few months should be interesting," says Kochan.

Metropolitan Industries, Inc. is a single source supplier of pump systems, controls and ancillary equipment for over 40 years. They serve the commercial, municipal and industrial markets nationwide. For more information about the DST50 or the company, you may contact them at 800-323-1665 or log on to www.metropolitanind.com.



Installation of the new DST50 that includes six bus batteries on the left and control panel in the center. When a power outage occurs or line power has failed the DST will continue to run your pumps or motors using reserve power (bus batteries).

METROPOLITAN CONTRIBUTES TO CHICAGO BUSWAY PROJECT



An aerial view of Chicago looking East – City of Chicago/Peter J. Schulz



In 2002, Chicago completed a \$35 million Lakefront Busway project that links McCormick Place Convention Center with Navy Pier, all museums and hotels through a two-lane dedicated shuttle-bus

route that runs along the city's Grant Park.

After the renovation of McCormick Place in the late 1990's, the convention center continuously drew over 50,000 people per day mostly from Chicago's 31,000 downtown hotels resulting in heavy traffic congestion during the morning and evening rush hours.

The Chicago Department of Transportation understood the problem and opted for a dedicated busway, which separates convention traffic from general traffic while decreasing travel times between McCormick Place and hotels. Since the busway opened, a user-friendly convention environment exists while reducing the convention center's transportation costs and traffic congestion.

Metropolitan Industries, Inc. contributed to the project by providing two new storm water-pumping stations at each new underpass along the Illinois Central railroad tracks, which the busway runs adjacent too.

Each underpass required a new duplex, submersible lift station complete with two submersible pumps, custom duplex control panels, two alarm dialers and standby back-up diesel generators.

Two types of alarm dialers were utilized because of the importance of maintaining "dry underpasses" for the CTA Buses. The first dialer was a traditional automatic telephone dialer using voice lines and the second was a new cellular dialer that utilized some aspects of wireless internet SCADA or WIS. The redundancy gave peace of mind to operators in the event that local phone service became interrupted.

WIS is a technology excellent for SCADA communications. It uses wireless data communication that takes advan-

tage of the existing wireless Internet networks to join systems that could be thousands of miles apart. This is a reliable way of securely connecting hundreds of locations with a minimal installation effort.

There are many features available with WIS integration. For example, it allows Internet connections for the purpose of remote access via personal computers, personal data assistants PDA, as well as other Internet-enabled devices. The use of these devices makes possible such timesaving methods as email reports, over-the-Internet control and



Pictured is a small section of busway as it turns around a corner giving riders a great view of the city and Soldier Field.

mobile data collection. The advantage is real-time, up to the second information that can be viewed anywhere Internet access is available.

Another feature is the ability to easily communicate with the system via telephone to receive voice-automated updates and/or adjust system settings on the go through your cellular phone or PDA. Other features include the ability to receive emergency alarm alerts via personal cellular phones, pagers, PDAs and even a landline phone located in a residence.

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NEW TECHNOLOGY CUTS COSTS OF FABRICATION



Bob Svoboda demonstrates the capabilities of the new plasma cutter as he displays Metropolitan's logo cut from a sheet of steel. Using CAD\CAM computer software, the plasma cutter will cut according to exact specifications in a drawing.

In an effort to modernize the fabrication process, Metropolitan Industries, Inc. recently invested in a plasma-cutting table capable of sculpting a slab of steel into any two-dimensional shape with little or no effort.

Metropolitan is utilizing this technology for the fabrication of bases used in their clam shell houses and housed booster stations, plates for panel stands, pump bases and miscellaneous brackets.

According to Bob Svoboda, fabrication supervisor, the new plasma cutter is a valuable asset during the fabrication process. Before this technology arrived at Metropolitan, cutting was slowly done by hand. Results were inaccurate, time consuming and costly. Typically, it would take 12 hours to cut 40 standard mechanical alternator bases. With the plasma cutter, it only takes 45 minutes to accurately cut 40 bases.

"The addition of the plasma cutter has been an asset to the shop area. It cuts cleaner, faster, more accurate and can

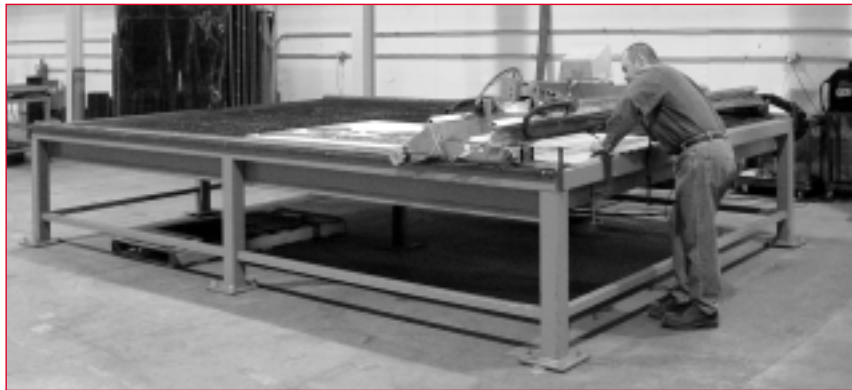
do multiple odd tasks with the push of a button," says Svoboda

Mounted on a huge table the size of a couple king size beds, the plasma torch moves up and down the massive base guided by two small tank tracks. A computer program fires the torch simultaneously releasing compressed air and plasma which cuts steel like a hot knife through butter.

Using CAD\CAM computer software, the plasma cutter will cut according to a drawing

and match the exact specifications in that drawing. It also has the capability to store repetitious cuts in the computer hard drive for easy accessibility.

Metropolitan has had this technology for almost a year. After Svoboda fabricated the plasma table, the cutter was mounted and computer programs installed. In the year since it's inception, the plasma cutter has saved Metropolitan and it's customers thousands of dollars in fabrication costs due to its accuracy and speed.



Since the plasma cutter's inception it has saved Metropolitan's customers thousands of dollars due to it's speed and accuracy.

The Metropolitan Service Department never closes

Metropolitan Industries, Inc.

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METROPOLITAN CONTRIBUTES TO CHICAGO BUSWAY PROJECT *Continued from page two*



WIS is a SCADA communication method that Metropolitan Industries has integrated into many municipal projects. Many municipalities decide to integrate WIS into their system due to its communication reliability and the lack of system downtime due to weather, brownouts, etc. Because of the utilization of cellular and Internet networks, bad weather, power outages and lightning rarely affect WIS. With the use of a wireless transmission, there is reduced risk

of a severed line resulting from construction or powerful storms associated with leased-line communication.

In the same regard, WIS can operate through a power outage because of the battery-back up systems that are available through Metropolitan. In the event that a cellular tower goes out of service, WIS is smart enough to search for another cellular tower so users do not experience any down time. Data communications using this method works anywhere compatible cellular systems work, including indoors, when strength permits.

The use of WIS communications during the McCormick Busway project and other municipalities demonstrates Metropolitan's continuing effort to stay on the cutting edge of technology providing customers with new solutions, for as many options as possible, that solve the toughest applications.

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