

CASE STUDY

Pioneering Automated Material Handling: Advanced Systems, Inc.

How **MELTRIC**® Connections Enhance Safety, Efficiency, and Reliability in Advanced Systems' Conveyor Solutions

"The reliability and durability of MELTRIC products have increased overall system efficiency, reducing the frequency of maintenance and associated costs."

*Mario Graziano – Advanced Systems Inc.
Project Manager*



UNMATCHED SAFETY



GREATER EFFICIENCY



UNWAVERING RELIABILITY

INTRODUCTION:

In the fast-paced world of industrial automation, Advanced Systems Inc. stands out as a leader in automated material handling solutions. Founded in 1989, the company has consistently pushed the boundaries of innovation, specializing in the design and implementation of efficient and reliable conveyor systems for manufacturing and distribution. Central to Advanced Systems' success is their dedication to incorporating top-tier components and technologies into their solutions.

THE CHALLENGE:

Advanced Systems faced several critical challenges in their automated material handling operations. Their existing electrical connections lacked the safety features and durability required for high-demand environments, leading to frequent issues such as overheating and handling difficulties under load. These problems not only posed safety risks but also resulted in increased downtime,

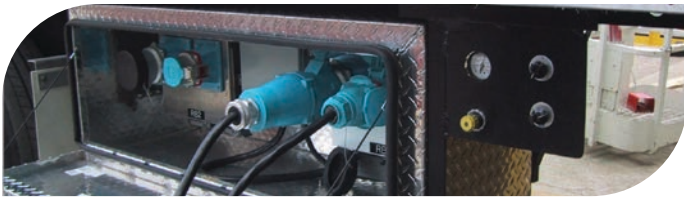
disrupting the seamless operation of their conveyor systems. The maintenance process was cumbersome, requiring specialized training that caused further delays.

Advanced Systems sought a reliable solution that would enhance the safety, efficiency, and reliability of their electrical connections. Advanced Systems aimed to maintain uninterrupted operations, enhance productivity, and deliver superior performance to their clients.

SOLUTION: MELTRIC® INNOVATION

To address the challenges they faced, Advanced Systems chose to integrate MELTRIC connectors into their automated material handling systems. MELTRIC Switch-Rated plugs and receptacles are renowned for their unique safety features, versatility, and durability, making them an ideal solution for high-demand industrial applications.





- Reduced need for frequent replacement, translating into **cost savings**
- Quick and straightforward use that **significantly reduces downtime**
- **Compliance and certification** including UL and CSA for use in North America

RESULTS/BENEFITS:

The integration of MELTRIC connectors into Advanced Systems' automated material handling operations has yielded substantial improvements in safety, efficiency, and reliability because of:

- Safety features such as a **dead-front construction** and **switch-rated capabilities**
- **Environmental ruggedness**, allowing use in indoor and outdoor settings

These enhancements have translated into significant operational benefits and value for both Advanced Systems and their clients. By leveraging MELTRIC connectors, Advanced Systems has been able to deliver more consistent and reliable system operations to their clients. The enhanced safety, efficiency, and reliability of the material handling solutions have resulted in increased client satisfaction.

MEET MARIO GRAZIANO:

As a Project Manager for Advanced Systems Inc., Mario Graziano is responsible for project quoting and budgeting, which initiates project lifecycles. He spearheads projects from design through installation and commissioning phases, ensuring that everything runs smoothly and according to plan.

IN MARIO'S WORDS:

Prior to choosing MELTRIC, Mario mentioned that Advanced Systems faced "challenges with connectors that lacked the safety features and durability needed for our high-demand operations. Issues included connectors overheating and difficulty in handling underload, which MELTRIC has effectively addressed."

Since implementing MELTRIC, Mario says that Advanced Systems has experienced "significant positive benefits" and so have their customers. "The quick and safe disconnect features reduce downtime and improve maintenance efficiency, leading to uninterrupted operations. The durable and robust design of MELTRIC connectors ensures long-lasting performance, minimizing the need for frequent replacements."

Mario rejoiced that "for our customers, this translates into more consistent and reliable system operation, increased productivity, and a safer working environment, all of which contribute to greater overall satisfaction and value."

Switching to MELTRIC helped Advanced Systems to improve their operations in a multitude of areas. "The use of MELTRIC connectors has reduced downtime by providing quick and safe disconnects, enabling more efficient maintenance and equipment changes. The enhanced safety features, such as dead-front construction and arc-flash protection, have minimized the risk of electrical accidents, creating a safer working environment for our team."



Based on Advanced Systems' experiences we recommend that facilities prioritize safety, efficiency, and reliability by exploring sophisticated and innovative electrical MELTRIC plugs and receptacles.



Contact MELTRIC to try a **free plug and receptacle** today. Make safety and efficiency top priorities in automated systems. Your profitability depends on it.

meltric.com

4765 W. Oakwood Park Drive • Franklin, WI 53132
414-433-2700 • mail@meltric.com

WWW.ADVANCEDSYSTEMS-INC.COM

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