

# APPLICATION BRIEF

## INDUSTRIAL MANUFACTURING



NEC

ART. 500



NFPA

70e

## Woodhead® Power Systems and Components from Molex for Industrial Plants Help Prevent Electrical Injuries

**Woodhead® Aero-Motive® Pow-R-Feed™ and Festoon Systems are engineered to improve the safe operation and maintenance of Automated Storage/Automated Retrieval system pathways, cranes, hoists and other linear motion systems.**

**Business Challenge:** Safeguarding Workers Against Electrical Hazards. Electrical safety in highly automated industrial plants is of primary importance. To reduce risk and ensure compliance, employers constantly seek ways to protect workers from electrical injuries through safety education and training, and smart equipment selection. For decades, Molex has provided industrial enterprises with innovative solutions designed to help protect workers and provide safer, more efficient operation of automated factory systems. Our wide array of electrical products and systems are engineered and built for high performance and long service life, with minimal maintenance.

**Solutions:** Woodhead® Electrical Systems and Components. Molex solutions deployed in industrial plant applications include:

**Pow-R-Feed™ System.** This compact, versatile and totally enclosed linear conductor system is designed to provide electrical power and/or control currents to high-speed moving machinery. The Pow-R-Feed System features a channel design incorporating free-floating continuous copper strip conductors, which virtually eliminates the voltage drops, signal

interference and arcing that sometimes occur in systems using spliced copper wire conductors. Unlike covered bar systems, the Pow-R-Feed System is lightweight and easy to install on hanging steel mounting brackets that allow for high-speed travel and may be installed along horizontal or vertical curves. Their unique design minimizes brush wear, corrosion and expansion or contraction due to extreme environmental conditions. A rugged PVC housing eliminates workers' risk of accidental contact with the copper conductors.

Pow-R-Feed Systems are the high performance choice for electrifying hoists, cranes, crane runways and Automated Storage/Automated Retrieval (AS/AR) systems. A highly versatile problem solver, Pow-R-Feed has been deployed in automotive, aerospace and appliance manufacturing plants, paper mills, aircraft hangars, frozen food and meat processing plants, as well as in material handling, AS/AR systems and other high-speed linear motion systems.

These products support NFPA 70e guidelines which protect workers in close proximity to live conductors.

**Aero-Motive Balancers** allow workers to move suspended tools or objects up or down quickly and with very little effort. Balancers are available in standard, heavy and severe duty versions to accommodate different load weights. They are often deployed to balance heavy loads in tooling, welding, meat processing, packaging, and paint mixing applications. Balancers are manufactured with secondary chain support and ratchet lock-out to prevent falling on workers.

**Woodhead Cable and Hose Reels.** Our rugged, spring-powered industrial duty cable reels provide a safe, dependable power supply

for portable lighting, portable power, power tools and other mobile electrical equipment. Our full line of industrial hose reels can be used for distribution of air, water and other fluids such as oil, solvents or cleaning liquids. All cable and hose reels are designed to prevent over heating even when the cable reel is fully wound. It can run at max current and not overheat.

Our products support OSHA and meets NEC ART. 500 requirements.

**Benefits and ROI:** Only Molex offers such an extensive range of safety-oriented electrical products designed for use in demanding industrial automation environments. Our diverse, robust product lines can help companies maintain operational efficiency and uptime, while reducing labor costs and protecting worker safety by ensuring compliance with electrical codes and OSHA regulations. By using products that protect worker safety, companies can reduce insurance and labor costs.



To learn more about Woodhead® electrical products and solutions, call your Molex representative today or call 1-800-225-7724 or visit [www.woodhead.com](http://www.woodhead.com)

