

### Multipurpose tire radials

Continental's portfolio of multipurpose tire (MPT) radials includes the MPT 81, MPT 80, and



MPT 70 E. The cost-effective tires feature high transportation capabilities suitable for the multipurpose vehicle that operates both on and off road. The MPT 81, which offers a maximum speed of 110 km/h (68 mph), is suitable for winter use, offering good traction in off-road applications in combination with quiet running on road. Approved for speeds of up to 100 km/h (62 mph), the MPT 80 with its even ground pressure distribution provides safe mobility on soft ground. The MPT 70 E, which is approved for up to 70 km/h (43 mph), is a dedicated construction-site tire due to its rugged design.

### Structural adhesives

Metal bonder adhesives from Plexus provide a combination of high strength, fatigue endurance, impact resistance, and toughness on metals and other substrates



including stainless steel, aluminum, thermoplastics, and composites. These two-part methacrylate adhesives are nonsagging gels that have been specifically engineered for performance in rigorous metal bonding applications such as heavy truck trailer, marine, bus,

and coach. The adhesives require no primers and little or no surface preparation on most substrates. Available with or without 12-mm (0.5-in) solid glass bead spaces for bond gap thickness control, the adhesives come packaged in ready-to-use cartridges, pails, and drums.

### Commercial coatings

PPG's Delfleet Essential, a member of the Delfleet family of commercial coatings, is a system of topcoats and primers with a full range of product options designed for fleet shops that require cost-effective quality and consistency.



According to the company, Delfleet Essentials delivers good flow, leveling, hiding, quick out-of-dust times, and a wide range of color choices including solid and metallics. Lead-free formulations are also offered for most of the traditional lead-based colors. The coatings are available in a 2.8 VOC that sprays like a 3.5 VOC.

### All-terrain tire

McLaren Industries' NU-AIR AT semi-pneumatic, all-terrain tire for skid steer loaders and backhoes combines the cushioned ride of pneumatic tires with the durability of solid tires. Featuring strategically placed holes throughout its specially engineered sidewalls, the NU-AIR AT is resistant to cuts and snags in severe operating conditions, making it suitable for work on any terrain. The placement and depth of the sidewall holes are



designed to create proper cushioning for optimum machine performance and longevity. Unlike fully pneumatic tires that provide shock absorption using compressed air, the NU-AIR AT will not flatten, eliminating downtime from unexpected punctures.

### Metal-matrix composite

CPS Technologies' AlSiC (aluminum silicon carbide) coolers offer higher reliability for hybrid electric vehicle (HEV) power module insulated gate bipolar transistors (IGBTs). AlSiC cost-effectively offers the pin fin geometries that are



required for liquid cooling in HEVs. In addition, AlSiC coolers provide an isotropic thermal expansion that is compatible with device/electronic substrate to reduce mechanically induced stresses during thermal cycling for improved electronics and module reliability. The AlSiC device compatible thermal expansion (8 ppm/°C) simplifies IGBT assembly over Cu pin fin coolers, eliminating the need for stress-compensation layers that increase resistance, assembly complexity, and cost over the higher-thermal-expansion Cu (17 ppm/°C). Because of its lightweight quality, AlSiC is a suitable cooler material for the weight-sensitive HEV application.



Starting with an advantage.

From day one, the new Tyco Electronics brings many advantages to our customers, investors, employees and communities. As a \$12.8 billion company, with a 60-year head start, we've been at the forefront of the explosive growth in electronics worldwide. With nearly 100,000 employees in more than 45 countries, and a peerless reputation in engineering, our approximately 500,000 products include electronic components, network solutions and wireless systems. Tyco Electronics is committed to the technologies that bring advantages to everyone's life every day.

[tycoelectronics.com](http://tycoelectronics.com)

TE Logo and Tyco Electronics are trademarks.

[sohex.hotims.com/13772-229](http://sohex.hotims.com/13772-229)

 **Tyco Electronics**

Our commitment. Your advantage.

### Construction seats

The KAB 600 series construction seats from **Commercial Vehicle Group** are designed to provide safety and comfort for construction vehicle operators. The seating offers a modular design to allow



for the air or mechanical suspensions to be interchanged, and three different K-series seat uppers and five different positioning system modules are available. The K-series uppers offer adjustable lumbar support, seat heaters, seat cushion tilt and length adjustment, adjustment armrests, and headrest. The K-series meets ISO 7096 seat performance standards for construction vehicles without the need to change damping or springs for different equipment categories. It is suitable for use in articulated and rigid dump trucks, large and compact wheel loaders, graders, backhoe loaders, bulldozers, and other large construction machines.

### Tire flatproofing

**Arnco's** SuperFlex soft-fill polyurethane material provides a flatproofing function for off-highway vehicle tires. When ride, footprint, and floatation are needed, a SuperFlex-filled tire functions similarly to an air-filled tire. It protects both operator and machine from vibration and jolting, increases tire life and performance, adds ballast, and maintains proper tire pressure and footprint. The polyurethane liquid is pumped into the tire by an Arnco-certified dealer, and cures into a soft rubber-like material that fills the tire. It eliminates flats, blowouts, or other damage that can occur with air-filled tires, works in any tire with a sound casing, and has shock absorber properties with a hardness of 8. SuperFlex is suitable



for off-highway vehicles such as skid steers, ditchers, and front-end loaders.

### Suspension system

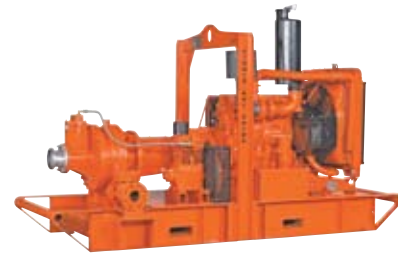
**ContiTech Vibration Control's** Schwingmetall K3500 LT hydro-mount suspension system features a long spring travel for maximum comfort and safety. With its compact design and load-carrying capacity of 100 to 300 kg (220 to 660 lb), the system is suitable for use in heavy-duty applications such as the cabin suspension on agricultural and industrial vehicles like wheel loaders and excavators. The K3500 LT hydro mount provides the high lateral stiffness typical



to a cone mount, which effectively reduces the pitching and rolling motion. With integrated hydraulic damping, intermittent excitation forces are damped, providing the elastomer mount a softer design; therefore, the vehicle driver is subjected to less strain at work and gets better ride comfort even when operating conditions are exceptionally harsh.

### Self-priming pumps

**Godwin Pumps' Dri-Prime** product line features two series of self-priming pumps: CD for lower pressure and HL for high lift. Applications for the CD series include construction dewatering and sewer bypasses. Suitable for higher-pressure applications such as mine and quarry dewatering and pumping through nozzles or long pipelines, the HL series



offers the HL110M, HL130M, and the HL 160M extreme high-lift models. The pumps provide broad application flexibility through a single-stage impeller design with lifts to 183 m (600 ft) and solids handling capability to 35 mm (1.4 in).

### Crane tires

The **Michelin X-Crane AT** range of tires is designed for all-terrain cranes that travel long distances on roads. The tire offers productivity and safety gains for 35- to 600-t (40- to 660-ton) cranes with 2 to 12 axles. Its radial casing and enhanced tread blocks ensure progressive grip that reduces vibrations and improves driver comfort. With fewer vibrations, there is less mechanical stress for equipment fitted with the Michelin X-Crane AT. Additionally, the tire can be re-grooved and re-treaded.

### Ergonomic seating

Double-decker train seats from **Grammer** offer improved comfort, design, and modularity and a 540-mm (21.3-in) width. The ergomechanics backrest adjustment mechanism automatically modifies the backrest's contours when the angle changes so passengers can alter the sitting position while continuously receiving backrest support. A lumbar hump changes shape to suit the natural curvature of the spine, and the V-shaped head cushion is suitable for passengers of all sizes. Second-class trains use



Grammer's D 3000 seats (pictured) with ergonomically designed cushion contours, seat attachment systems, and rod construction for improved strength and surface quality.