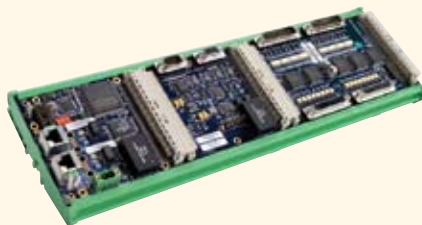


I/O module

SQIO SynqNet I/O interface boards from **Danaher Motion**

allow high-volume machine builders to integrate their custom analog and/or digital I/O hardware with complex, high-performance motion into a SynqNet network architecture. SQIO maximizes machine performance by providing real-time I/O and remote motion performance diagnostics via SynqNet for in-depth system level visibility, analysis, and control. Suitable for integrating custom I/O into a SynqNet network, SQIO modules also offer a solution for high-volume OEMs who have specific I/O timing needs or need tight synchronization with motion requirements, or who want system level software visibility of I/O status and operation.



Device protection

Carlo Gavazzi Computing Solutions'

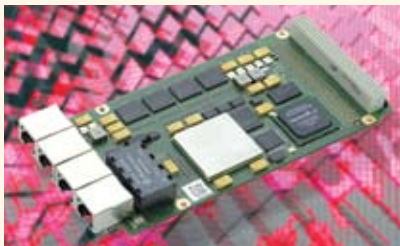
rugged electronic packaging services for commercial off-the-shelf products are designed to offer users the capability to outfit standard commercial products such as computers, servers, data storage units, and mobile electronic equipment with a durable, rugged, and more protective enclosure. Applications include the military and aerospace industries, where harsh environments often require protection of embedded and applied computing devices. Engineered using durable, lightweight aluminum with welded seam construction, these enclosures meet military specifications and can be configured with a shock and vibration isolated sub-chassis and an advanced temperature control system to fully shield the internal device from extreme temperatures.



Embedded system modules

MEN Micro offers a new single-board computer as a part of its series of PowerPC-based embedded system modules.

EM9 employs **Freescale's** latest MPC8548, providing up to 1.5 GHz of processing power. Also using **Altera's** Cyclone II field-programmable gate array, EM9 is a universal computer core for cost-critical embedded solutions in particularly harsh environments. It also provides individual I/O for each application through IP cores. Specific applications include control and safety of network systems as well as machine control, human-machine interfaces, or embedded terminals. The board's QUICC III processor consists of an integrated e500 core with floating point unit, memory management unit, and L2 cache. MEN Micro's EM9 can also use an MPC8543 processor.



Locking rocker switch

The 58336 locking rocker switch from **Cole Hersee** automatically locks in the off position, and a



slider must be actuated before the switch can be turned on. Suitable for trucking applications that require an additional level of safety, the switch offers a bright orange actuator that allows users to easily view if the switch is locked. The weather-resistant locking rocker switch offers a matte black finish housing, bezel, and actuator, and has a 25 A at 12-V dc rating.

Rugged sensor

The GS-1630 linear gauge sensor from **Ono Sokki Technology** is a compact and lightweight digital



sensor that can be installed in current production equipment and existing fixtures. The sensor is designed to measure dimensions, thickness, curvature, displacement, variation, and position as well as a half dozen other attributes. Suited for harsh environments, the GS-1630 has a waterproof seal, and a dust bellow is provided for additional protection. Endurance testing revealed that the sensor has a life span beyond 5 million strokes.



check » shift » accelerate » park



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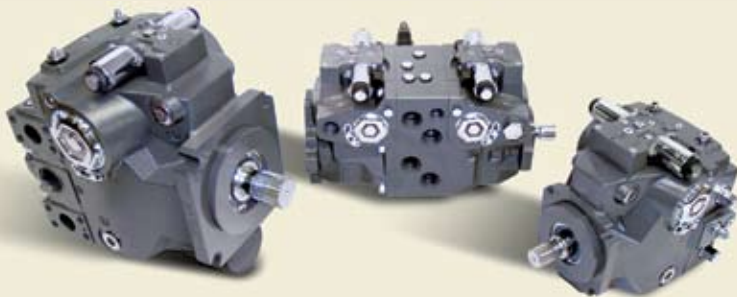
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Solid tire

The SC 20 solid tire from **Continental's** Super Elastic family of tires is designed for speeds of up to 25 km/h (15 mph). Used for general requirements in multipurpose applications, the tire is optimized for use on paved surfaces and smooth floors. Vehicles fitted with the SC 20 can lift and stack up to a height of 5 m (16 ft). Its design offers high stationary stability for the vehicle. With its low rolling resistance, the SC 20's energy consumption and heat build-up are very low. Modifications have been made not only to the appearance but also to its core features. The new aspect ratio offers improved suspension and shock absorption, therefore providing driving comfort during transportation and stacking.

ergonomic design. The unit's optimum weight distribution provides easy handling and allows use in tight work spaces.



Emissions reduction

Mann+Hummel targets the off-highway market with a range of products designed to reduce particulate emissions, including the SMF-AR diesel particulate filter with a sintered metal element. Features include improved durability, long service life, active regeneration without machine downtime, reduced maintenance costs, and a range of uses in applications with low exhaust temperatures including construction machinery and forklifts. The SMF-AR's sintered metal filter offers a higher ash capacity vs. conventional ceramic filter elements and is easy-to-clean. Filter regeneration does not require an external energy source, and soot is ignited automatically when necessary via radiant heat through heating elements fitted around the filter.

speed, the electronic control takes care of starting the vehicle smoothly, cruise control, and safe braking.



Fuel filter/water separator

FBO-14 and FBO-10 fuel filters from **Parker Hannifin/Racor Division** can be installed on heavy equipment as a pre-filter system. Applications include mining trucks, power generators, earth-movers, fuel-dispensing pumps, and pumper/lube service supply trucks. The units provide users with clean, dry fuel. Benefits of

the devices include high-flow rugged design, aircraft-quality filtration and water separation, ease of maintenance, and compatibility with diesel and biodiesel fuels.



Noise reduction

Adchem's foam bonding adhesive tapes for sound attenuation and vibration damping are suited for applications in the marine and heavy-equipment industries. The company's foam-bonding solutions can be adhered to a variety of natural and synthetic materials. The viscoelastic properties of Adchem's adhesive tapes are designed to create structural-borne wave interference and refraction when placed between two sheets of material. This composite exhibits less vibration, reducing the amount of sound energy that is generated.



Mobile filter unit

When cleaning or filling a hydraulic system, the integrated particle counter on **Argo-Hytos' Ecoline** unit displays the oil cleanliness class. The oil purity is indicated on a display or transferred directly to a PC. The integrated data storage unit collects up to 500 measurements. At any point in the cleaning or filling procedure, the user can see the current cleanliness class and only filter for as long as it is necessary. The Exapor micro-filter elements have a high dirt-holding capacity, therefore the unit operates cost-effectively, says the company. Benefits of the unit also include its low mass and its compact,



Dual transmission

The Addidrive Creeping transmission from **Poclair Hydraulics** is designed for vehicles that need to travel fast between work sites, yet must work at a low and constant speed, including road marking, railway/bridge maintenance, forest fire extinguishing, and garbage disposal vehicles, chip spreaders, road sweepers, and asphalt layers. The system operates using two independent transmission types: hydrostatic and mechanical. Shifting from one to another is done by activating a switch. The mechanical transmission is used for traveling on the road, while its hydraulic counterpart is used for work. In the latter, the mechanical brakes are spared as hydrostatic brakes will stop the vehicle. At low



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Harsh-environment bearings

Ride Technologies' tilted pad style hydrodynamic bearing features a polymer coated carbon steel runner for high-shock and high-load applications with low viscosity fluids and frequent starting and stopping. This design combination, the ride tilting pad bearing and polymer runner, allows the bearing to run cooler at high loads up to 3500 psi (241 bar) and can withstand shocks up to 100 g. Applications include submersible pumps, motors, compressors, and coal bed methane water pumping.



Injection presses

The RTIP line of injection molding machines **REP** and **Tung Yu Hydraulic Machinery**, are designed for the fabrication of rubber molding. The RTIP injection presses merge REP's injection technology—a V-head design that separates the plasticizing

and injection functions—with the frame and controls of the Tung Yu machine. This line of presses also boasts a small footprint, with the largest of the five press sizes requiring 2100 x 2600 mm (83 x 102 in). Some available options include hydraulic ejectors, fixed or movable traverse, plate handling outside the press, and pre-arrangement for vacuum.



SYLED03 and SYLED04 modules come with a choice of three or four high-intensity 1-W LEDs with multiple flash patterns. Both units are sealed to keep moisture out and have a simple dual-wire installation. Available in amber, blue, clear, or red LEDs, the units use either 12 or 24 V dc. In addition, the LED modules have been tested in a variety of indoor and outdoor environments on heavy-duty, commercial, construction, and utility vehicles to assess ruggedness and durability.



Hydraulic motors

White Drive Products' new hydraulic motor series provides users with low speed and high torque. Labeled the WS Series, these motors have flow rates up to 76 L/min (20 gal/min) continuous; torque to 824 N·m (608 lb·ft) continuous; and pressure rates up to 207 bar (3000 psi) continuous. The motors also have a three-zone commutator valve for higher flow capacity, heavy-duty tapered roller bearing for handling increased side loads, and an extra-large drive link that allows the motors to withstand pressure and torque spikes. Applications include use with agricultural equipment, skid steer attachments, augers, and mowers.



Snap-action switches

Crouzet's miniature and sub-miniature switches feature diagnostic functionality and longer overtravel intended to provide increased flexibility for design engineers. Designated for use in the commercial vehicle and agricultural equipment industries, the switches already have a proven success rate in European and Asian OEM applications, according to the company. The switch products include the V3, V4, and V5 models with a variety of actuators, sizes, and termination methods to fulfill different application requirements. An example of the aforementioned flexibility can be seen in the V5 model, which is a fully sealed subminiature, single break, changeover switch that provides diagnostic capabilities for switch readiness. All three models of snap-action switches are rated at up to 1 million cycles.

LED modules

Featuring an encapsulated power supply that eliminates the need for an external power source, **Superior Signals'** Meteorlite high-intensity LED modules are suited for vehicle safety lighting and traffic control applications in the off-highway industry. The



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