



W DIESEL **THE PROGRESS**

MECHANICAL POWERTRAIN COMPONENT REPORT

A comprehensive list of powertrain component and system suppliers, along with the latest products and news.

ALLISON TRANSMISSION

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Contacts

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Engineering: Steve Spurlin

Product Line

Commercial-duty automatic transmissions and hybrid propulsion systems for bus, refuse, fire, construction, distribution, military and specialty applications.



Allison's 1000 Series transmission.

New Products

Allison Transmission said that for model year 2010 its Allison's Load-Based Shift Scheduling (LBSS) feature has been optimized to include a Super Economy Shift Schedule. This enhancement allows Allison LBSS to upshift under cruising conditions to further improve fuel economy. Allison LBSS will continue to automatically

select between Economy and Performance shift schedules based on the vehicle's actual payload and the grade on which it is operating. Load-Based Shift Scheduling is available on all Highway Series, Pupil Transport/Shuttle Series, Rugged Duty Series and Bus Series models. Super Economy Shift Schedule is available with SEM/LRTP capable engines.

Allison's 1000/2000 Series transmissions also offer increased horsepower and torque ratings to allow a broader range of applications. Allison 1000/2000 Series transmissions with Shift Energy Management (SEM) are now rated up to 340 hp and 660 lb.ft. of torque. Without SEM, they are rated to 300 hp and 575 lb.ft. of torque.

Hardware enhancements to the all new 1000/2000 Series models have reduced the power required to charge the oil lube distribution and main pressure system. The introduction of the Variable Modulated Main feature reduces main pressure when the clutch apply system does not require full main pressure. New wave friction plates reduce internal drag. The result is more efficient operation that helps improve fuel economy, the company said.

The new 2010 Vehicle Acceleration Control (VAC) feature, available on Bus Series and Pupil Transport/Shuttle Series models, is engineered to help control aggressive driving practices and improve overall fuel economy. The VAC limits acceleration by controlling

the amount of engine torque based on vehicle load, and the company said that fuel economy can be improved by as much as 3%, Allison said.

Also new for 2010, Allison B 300 and B 400 models are available with Increased Lockup Availability, which enables the transmission to shift into lockup in the first range, and lockup stays on through the first to second shift. The transmission's electronic controls monitor acceleration to determine when to activate lockup.

Allison also said its 4700 and 4800 models will be available with a second "deep reverse" in addition to the standard reverse. This feature, the company said, will provide greater control and engine braking during operation on steep grades as it will give vehicles a slow creep capability with high engine speeds. With a mechanical ratio of 17.12, it will have an effective torque converter multiplied ratio up to 32.5:1, Allison said.

The feature will be available midyear 2010 on Rugged Duty Series, Emergency Vehicle Series and Specialty Series models.

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Product Line

Altra produces a range of mechanical power transmission products marketed under a variety of brands including Ameridrives, Boston Gear, Warner Electric, Formsprag Clutch, TB Wood's Inc., Industrial Clutch, Kilian Manufacturing, Marland Clutch, Nuttall Gear, Stieber Clutch, Twiflex Ltd., Huco Dynatork, Bibby Transmissions, Matrix International, Inertia Dynamics, Delroyd Worm Gear, Warner Linear and Wichita Clutch. Its portfolio consists of industrial clutches and brakes, enclosed gear drives, open gearing, couplings, machined-race bearings, variable frequency and belted drives, linear actuators and other related products for the automotive, general industrial, material handling, aggregate and mining, marine, power generation, oil and gas, transportation and turf and garden markets.

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Product Line

Flexible couplings, composite shafts, resilient mounts, brakes, monitoring systems, torsional vibration analysis, service, installation and on-site support.

ARVINMERITOR INC.

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Product Line

ArvinMeritor encompasses the brands Meritor, Euclid, Gabriel, Meritor WABCO and Mascot Truck Parts. Products include drive axles, front steer axles, drivelines, clutches, foundation braking systems, vehicle control systems, ride control systems, trailer axles and suspensions, aftermarket parts and services. The company serves line-haul, specialty vocations, off-highway, military, bus and coach, and medium-duty vehicle markets.

New Products

ArvinMeritor Inc. has introduced a new drive axle designed for dock loaders and spotters operating at ports and terminals. The new drive axle was engineered to carry up to 10,000 lb. more than other axles for this application, said the company.

The axles feature a housing constructed of HSLA plate with forged spindles bolted to the housing. The planetary wheel end has a 3.46 ratio and a range of axle ratio from 8.5 to 24.8. The axle is rated for 3000 rpm with potential for higher speeds, said the company. High clamp force designed to maintain bearing setting for extended periods helps to reduce maintenance, ArvinMeritor said. Weight ratings are 15 to 38 ton GAWR and 150 ton GCW.

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Product Line

Single-, double- and triple-reduction planetary final drives and brakes for

mining, construction, forestry, agricultural equipment and industrial applications. Configurations include wheel drives, swing drives, and shaft or spindle output drives.

New Products

Auburn Gear's new PTO planetary pump drives were designed to accept power input from 540 or 1000 rpm PTO shafts to the gearbox via male or female splined shafts. Through the gearbox, the pumps can drive a wide array of devices on many agricultural and industrial implements, such as spinner spreaders, augers, pumps, grain wagons, rotary tillers, orchard sprayers and mower conditioners.

Other features include sealed gear housings, self-contained high-pressure gear lube, high-capacity tapered roller bearings and heat-treated input and output gear splines for increased wear resistance and durability, said Auburn Gear.

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AxleTech's XTL wheel end.

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Product Line

Service and parking brakes for off-highway and industrial applications including totally enclosed multidisc brakes both wet and dry from 1000 to 125,000 lb.in. of torque; ball ramp mechanically and hydraulically actuated brakes to 200,000 lb.in.; hydraulic caliper brakes from zero to 200,000 lb.in. of torque; mechanical caliper brakes from zero to 15,000 lb.in. of torque; hydraulic clutches for standard SAE mounting configurations.

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Product Line

Heavy-duty specialty, high mobility and off-road axles and components, including planetary axles and transfer cases serving the off-highway, specialty truck, industrial and military markets.

New Products

AxleTech has introduced a new axle incorporating wheel end technology that the company said can reduce tire wear by as much as 60%. The new XTL axle's patented dual-tire wheel end allows independent rotation of wheels during a turn, thereby minimizing tire scrub, which is a primary cause of tire wear, the company said.

The new XTL axle can extend drive axle tire life up to three times and steer axle tire life by 1.5 times, AxleTech said, as well as eliminate the need for tire rotation.

For the high-mobility military market, AxleTech has introduced new 5G axles

and independent suspension systems. The 5G axles have been optimized for strength and durability to accommodate up-armorings and increased payloads in military vehicles. They incorporate upgraded cast steel material and high-strength forgings. The trunnion and king pin area have been reinforced to resist higher steering forces, the company said, and housing wall thickness has been enhanced all around for higher dynamic load capability. The axle, which is available in load ratings from 10,000 to 29,000 lb., are ABS and CTIS ready, AxleTech said.

AxleTech's Independent Suspension Axle Systems (ISAS) are now available for high-speed, high-mobility applications requiring improved ride and handling. Utilizing the same planetary technology used in its 3000, 4000 and 5000 Series axle systems, the ISAS can deliver an average cross-country speed improvement over beam axles, the company said. ISAS technology can be configured for both medium- and heavy-duty vehicles.

Company News

AxleTech announced it will consolidate four Michigan and Illinois operations into a new leased facility in Troy, Mich. The company will invest approximately \$5.4 million into the new facility and will retain 107 jobs.

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Product Line

Power take-offs, adapter kits, hy-

draulic gear pumps, hydraulic valves, hydraulic reservoirs.

New Products

Bezares USA has introduced its FR series fixed displacement bent axis piston pump to the North American market. The FR series is a low-flow, high-pressure pump available in displacements from 2.40 to 6.68 cu.in./rev and operating pressures to 5076 psi. The pump series is ported for the North American market with SAE J514 straight thread O-ring boss (ORB), and the rotation of the FR series can be easily changed in the field with minimal tools, the company said. Due to the high torque requirements, the FR series comes with an ISO 1753 DIN mount, which Bezares said matches its PTOs designed to fit everything from a rear-mount Volvo or ZF to an Eaton or Allison transmission.

Company News

In the spring of 2009, Power Transmission Options (PTO) Ltd. changed its name to Bezares USA Ltd. By taking on the name of its parent company, based in Madrid, Spain, the North American operation is seeking to leverage the 56-year heritage of Bezares, which is a supplier of PTOs and truck-mounted hydraulic components throughout Europe.

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Product Line

Engineered brake systems including caliper disc brakes, drum brakes, full circle driveline service and park brakes, ball-ramp brakes, master cylinders, boosted master cylinders, slave cylinders, actuators, full-power hydraulic brake valves, manifolds, pressure switches, dry and wet friction material.

New Products

Carlisle Industrial Brake & Friction (CIBF) has launched a series of products for the global wind energy business. The range includes four active hydraulic disc brakes, including the WBA-90, WBA6-120, WBA1-75 and WBA1-90 for rotor and yaw wind turbine applications.

The company also developed a series of brake linings for wind turbine yaw applications. The Noise-Free range of brake linings have been specifically engineered for yaw braking applications, where a higher brake coefficient of friction, lower noise and longer service life are required. The new linings are manufactured from a proprietary, non-asbestos material that is co-molded onto the backing plate to provide enhanced shear strength and in-service integrity, said CIBF. The linings are available in a range of sizes and thicknesses to accommodate all commonly used wind turbine calipers, the company said.

CIBF continues to grow its military business, as the increase in vehicle armoring has led to greater vehicle weight, which puts increased stress on vehicle braking systems. In 2009 CIBF added a 17.5 by 5 in. air wedge drum service brake for land attack vehicles.

For heavy construction equipment, CIBF developed the VHB-480 brake, which is a hybrid between two older

models, the M4 and SCL2. Although originally designed specifically for Volvo, the brake has broad application in the construction market on articulated dump truck rigid haulers, the company said.

On the ag equipment side, CIBF launched the MIDI Twin Booster, a boosted master cylinder aimed at 80 to 120 hp applications.

Company News

In mid-2009, The Carlisle Companies, parent to Carlisle Industrial Brake & Friction, acquired the remaining interest in Japan Power Brake Inc. (JPB), Atsugi, Japan, from joint venture partner Yokohama Rubber Co. Ltd. With annual sales of approximately \$10 million, JPB provides braking systems for off-highway equipment, primarily in the mining and construction industries in Japan.

JPB's products include dry disc brake assemblies, hydraulic components and associated friction parts sold primarily to global heavy-duty construction equipment manufacturers. The company also has a significant aftermarket customer base. Carlisle Industrial Brake & Friction, a unit of Carlisle, and Yokohama Rubber had jointly owned JPB since 1989.

Carlisle also recently announced that it has created Carlisle Engineered Transportation Solutions (ETS), which consists of Carlisle Tire & Wheel (CTW), Carlisle Industrial Brake & Friction (CIBF) and Carlisle Power Transmission (CPT). The new operating unit was formed in December, the company said.

As one integrated strategic operating organization, ETS is intended to enable Carlisle to leverage synergies and best practices among the three companies while preserving the unique aspects of each business. Combining them into one operating unit will strengthen the value of the Carlisle brand, create a differentiated platform for their markets and bolster Carlisle's position with key manufacturing and distribution customers, Carlisle said.

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Product Line

Drivelines and drives for off-highway applications such as ag machinery, construction equipment, material handling and mining; pitch and yaw drives for wind generators; main inverters for wind applications.



The VaryT
toroidal transmission from Carraro.

New Products

Carraro has recently introduced three new axles. The T.10.0 series is offered with a front independent suspension and is a continuation of Carraro's transmission range.

Also new is the VaryT toroidal infinitely variable transmission for agricultural and construction equipment applications. The VaryT range of transaxles (combining a stepless transmission and the vehicle axle in one unit) uses Torotrak's full-toroidal traction drive. The VaryT transmission ratio is continuously variable and independent of engine speed to boost productivity through optimized fuel economy, according to the company. It also allows full traction capability at zero ground speed.

The vehicle can be controlled with seamless transitions from forward to

neutral to reverse. Lower noise levels, the elimination of launch or reversing clutches and the inclusion of features such as accurate cruise control — even at working speeds irrespective of external load conditions — reduce driver fatigue to allow longer continuous working time with improved levels of safety and productivity.

The third introduction is the DueT transmission, which implements automotive transmission concepts in agricultural applications. With a dual clutch architecture, the even gears are connected to one of the two clutches and the odd gears to the other. When changing gears, said Carraro, the electronic control pre-selects the required gear using a synchronizer and then inverts the clutch transmitting power.

Standard speeds range from 1 to 24.8 mph with maximum speeds reached 37.2 mph. With the electronically controlled clutch, the constant full traction will ensure 4WD when braking or when conditions require, said Carraro.

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Product Line

Partial machines, integrated systems and design components including undercarriage, transmissions, electronic components and systems, electro-hydraulic components (pumps, motors,

cylinders, valves and control) and systems, operator and cab stations, and hydraulic hose and couplings.

New Products

Caterpillar Inc. is now offering specialized chassis for the water truck market. The Cat 773F WTR and 777F WTR off-highway trucks and the 785D WTRE mining truck, all feature ISO 3471 rated ROPS structures.

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Product Line

Industrial and agricultural geardrives, power take-off drivelines, utility vehicle and off-road axles, electric wheel drives and customized mechatronic systems for industrial, agricultural, marine, wind energy, lifting, construction and earth-moving equipment applications.

COTTA TRANSMISSION CO. LLC

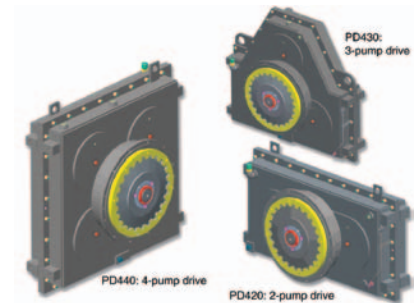
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Product Line

Cotta manufactures transmissions, including speed increasers and reducers, high-speed transmissions, transfer cases, creep drives, split shaft power take-off, heavy-duty pump drives, custom and reversing drives for a wide range of specialized mobile and stationary applications.



Cotta's X-treme pump drives.

New Products

Cotta has added to its line of heavy-duty pumps with three new models, designed for use in extreme applications. The new X-treme pump drive series comprises the two-, three- and four-pump configurations. They have input ratings up to 1500 hp and can reach 900 hp per pad. The pump drives can be driven as either power splitters or combiners.

The SAE pump mounting pads are field configurable using customer-specific pads and a spline adapter, said Cotta. In addition, the pump drives can be specified with through drives or through shafts with an optional disconnect. The SAE bell housings can also be specified for direct mount to engines.

They are targeted to applications with challenging conditions, such as marine, rail, construction, dredging, drilling, hydraulic power, process equipment, oilfield and crane applications.

JANA HOLDING CORP.

Off-Highway Products Group
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Product Line

Axles, driveshafts, transmissions and electronic controls for off-highway equipment and commercial turf equipment. Dana also supplies drivetrain systems in the Roadranger marketing alliance with Eaton Corp.



Dana's Spicer TE-15HX transmission.

New Products

Dana Holding Corp. has introduced a new IC-powered driveline system for 9 to 10 ton forklift trucks designed to accommodate larger-sized material handling vehicles. This system presents the debut of the Spicer Model 139 axle, the latest in a line of axles specifically designed for industrial lift trucks.

Suitable for lift trucks equipped with pneumatic or cushion tires, the Model 139 axle is engineered to handle the highest load capacities while offering the same durability, reliability and ease of maintenance provided by the Model 137/138 axles already used for smaller lift trucks, Dana said. The new axle includes integral frame and mast mounting provisions for fixed-mast lift truck applications, its spiral bevel center section and a 6:1 planetary ratio generate 13:1 through 17:1 overall axle ratios.

Dana is also introducing a new, optimized drivetrain for 17.5 ton front-end loader vehicle applications that includes a Spicer 319 summing motor and Spicer Model 114 planetary drive axles.

The Spicer 319 summing motor transfer case is designed to provide maximum tractive performance and high efficiency. Targeted for applications requiring 140 to 220 hp, this

transfer case employs two hydrostatic motors each with optimized gear ratios. To maximize efficiency at higher vehicle travel speeds, a clutch automatically disconnects the low-speed, high-gear-ratio motor, allowing the high-speed motor to function alone.

The Spicer 319 summing motor transfer case delivers seamless continuous variable transmission (CVT) performance from zero to 25 mph, the company said.

Dana is also developing new hybrid drivetrain technology specifically engineered for off-highway vehicles. A concept transmission in the evaluation phase, the Spicer TE-15HX is an electric parallel hybrid featuring a dual power path transmission control system. This system is engineered to continuously monitor operating conditions and select the proper combination of diesel and electric power to optimize productivity while reducing fuel consumption, emissions, noise and engine idling.

Dana has adopted a neutral stance toward energy storage in the development of the Spicer TE-15HX transmission. Drivetrain systems configured with supercapacitors can be used with highly cyclic applications such as front-end loaders, while container handlers and other applications that permit longer duration charging under a light load can be outfitted to work with lead-acid storage and other conventional battery technologies.

Whenever possible, the TE-15HX control system disengages the diesel engine and supplies power from the energy storage system for inching and other vehicle operations that require low energy consumption. During idling, it provides power for lights, climate control systems and other electrical accessories.

The Spicer TE-15HX transmission incorporates the flexible modular design of the Spicer TE-15 electronically modulated transmission to coordinate the operation of the diesel engine and a generator.

Dana is evaluating three-speed and four-speed versions of the TE-15HX

transmission in long-drop and short-drop configurations with an estimated rating of 147 to 235 hp.

Company News

Dana Holding Corp. has announced that it will consolidate its Heavy Vehicle Products operations in Kalamazoo, Mich., and Statesville, N.C., into two locations in the Toledo, Ohio, area and a yet-to-be-determined location in Greater Detroit.

DURST DIVISION

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Product Line

Axles, bevels, worm drives, transfer cases, shifting transmissions, hydraulic pump drives and torque converter-driven transmissions.

New Products

The Durst division of Regal Beloit, Shopiere, Wis., has introduced a new zero offset direct drive (ZODD) line, especially designed as a low-cost assembly for engine-driven hydraulic pumps. This newest-generation Durst ZODD features a two-piece design for easier installation and a lower profile for applications where space is a premium.

The new ZODD line, which features a one-piece drive plate, is targeted toward a variety of off-highway applications including construction, forestry and agricultural equipment, as well as aerial work platforms, specialty vehicles, marine uses and oilfield applications.

The ZODD line is designed to mount on SAE 2, 3, 4, 5 and 6 engine adaptors, with SAE 6.5 through 11.5 drive plate options.

EATON (ROAD)RANGER

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Product Line

Roadranger offers a combination of drivetrain components and systems from Dana Corp., Eaton Corp. and other partners. Products include a fleet resource manager; transmissions and clutches; drive, steer and trailer axles; tire maintenance systems and driveshafts.



Eaton's UltraShift PLUS transmission.

New Products

Eaton Corp. has launched its next generation of automated transmissions for over-the-road and vocational truck applications. The new UltraShift PLUS family of fully automated transmissions incorporates new automated clutch technology and intelligent shift selection software that employs grade sensing, weight computation and driver throttle commands designed to make more intelligent shift decisions and provide more efficient, safe and productive vehicle performance.

A total of six new transmission platforms are available as part of the UltraShift PLUS family. The platform designations, which represent a wide range of newly tailored transmission designs, include the Linehaul Active

Shifting (LAS) transmission, available in both an overdrive and direct drive; the Multipurpose High Performance (MHP) transmission; the Multipurpose Extreme Performance (MXP) model; the Vocational Construction Series (VCS); the Vocational Multipurpose Series (VMS); and the Vocational Extreme Performance (VXP) transmissions.

All of the UltraShift PLUS launches and shifts are automated with the use of a new self-adjusting electronic clutch actuator (ECA) designed to provide faster, smoother engagements. The new transmissions also share a Hill Start Aid feature to prevent roll-backs on grades; an oil level sight glass to easily check fluid levels; six- and eight-bolt PTO availability; automatic, manual and low mode selections; and a creep feature for significantly improved maneuverability with continuous low-speed control.

Combining the six platforms with different ratio sets and custom-designed shift calibrations in the software results in hundreds of individual configurations designed specifically for each application and powertrain, said the company. Full production was expected to begin in 2010.

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Product Line

Fabco manufactures and distributes steerable/driving axles, transfer cases, split-shaft power take-offs and specialty drivetrain components for medium- and heavy-duty trucks.

FAIRFIELD MANUFACTURING CO. INC.

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Product Line

Planetary final drives, hydrostatic brakes, swing transmission systems, custom gears, shafts, electric drives and mechanical assemblies.

New Products

Fairfield has developed a range of high-torque jack-up drives for marine and offshore applications. Based on the company's Torque-Hub planetary drive technology, the new jacking drive products are designed to offer maximum jacking torque ratings from 700,000 lb.in. to more than 20,000,000 lb.in.

Available features include customized input configurations, output pinion gears and ratios suited to the specific applications. Fairfield Torque-Hub jacking drives have ABS and DNV certifications and include precision gear components to ensure smoother jacking, higher reliability and stronger performance in the most demanding of applications, the company said.

In addition to a complete line of jack-up drives, Fairfield also provides a full range of Torque-Hub planetary drives and custom-designed assemblies for marine environments, including swing drives, winch and hoist drives, and custom drive solutions for mobile equipment applications.

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Product Line

Torsional elastic couplings and torsional vibration dampers for marine, locomotive, heavy construction equipment and power generation system applications.

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Product Line

Flywheel couplings and housings, shaft couplings, PTO stub shafts and pipe couplings.

New Products

Guardian Industries is offering the Superflex coupling, FBA flywheel coupling, pump mounting plates and spaces/adapters.

The Superflex coupling is constructed of two cast-iron hubs, a 55 shore "A" super-elastic flexible rubber element and bolts with self-locking nuts. To reach the necessary torsional load, the rubber element comes with a removable outer metallic band, which when removed, allows the rubber to expand from its pre-stressed condition.

The Superflex coupling is targeted toward applications such as light towers, gen-sets, compressors, welding sets and construction machinery with large driven inertias. It's rated for temperatures up to 212°F.

The Flywheel-Blind Assembly (FBA) coupling is a torsionally soft engine drive with dampening characteristics,

said Guardian. It consists of a steel flywheel flange, splined steel hub, rubber vibration damper and specially designed fasteners.

Flanges are available in SAE sizes 6.5 to 14, with metric options available. It can be used in gas and diesel engine applications such as aerial lifts, skid-steer loaders, excavators and low mass compressors.

The pump mounting plates are available in SAE sizes 1 through 6 and in either a plain or zinc finish. E-coat, black oxide and power coat are also available on request.

The spacers/adapters are manufactured steel and aluminum and are available in SAE sizes zero through 6. The line includes SAE housing spacers, single-step housing adaptors and double-step housing adaptors. Custom applications and the optional finishes are also available upon request.

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 Customer Service: Lisa Miller



The Hayes HEX-FLX flexible engine flywheel coupling.

Product Line

Flexible and flywheel couplings, engine housings, pump mount plates, bearing supported stub-shafts, HEX-FLX plastic flywheel couplings, L-series jaw-type couplings, driveshafts, u-joint adapters, pump motor adapters and accessories.

New Products

Early this year, Hayes received a patent for the shaft locking system used on its HEX-FLX line of flexible engine flywheel couplings. The HEX-FLX couplings are two-piece units used in off-highway machines such as aerial lifts, bucket loaders, skid-steer loaders, excavators, sweepers and wheel loaders.

The couplings cover an engine range of 30 to 600 hp and SAE flywheels 6.5 through 11.5. The nylon flywheel plate is engineered to provide high torsional stiffness, while the powered metal hubs can be modified in form and length as needed to meet application requirements. The patented locking system secures the unit effectively to splined shafts, the company said.

THE HILLIARD CORP.

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 Elmira, NY 14902-1504
 Phone: 607-733-7121
 Fax: 607-737-1108
 E-mail: hilliard@hilliardcorp.com
 Web: www.hilliardcorp.com

Contact

Sales & Marketing: Rob Doud

Product Line

Precision clutches, differentials, drive units, electric and caliper brakes for mobile and stationary equipment applications.

HYDRO-GEAR

1411 South Hamilton Street
 Sullivan, IL 61951
 Phone: 217-728-2581
 Fax: 217-728-7665

E-mail: info@hydro-gear.com
Website: www.hydro-gear.com

Contact

Doug Dyer, ddyer@hydro-gear.com

Product Line

Hydro-Gear produces high-performance integrated commercial hydrostatic transaxles, axial piston pumps and motors, LSHT motors, drive systems and electric-drive solutions for the lawn and garden and industrial markets.

New Products

Hydro-Gear has developed the ZT-5400 powertrain, adding to its ZT series hydrostatic transaxles. Developed for the commercial markets, the ZT-5400 comprises automotive-style planetary gears; piston pump and motor; heavy-duty shafts, gears and bearings; internal wet disc brake; and a two-speed drive system for shift-on-the-go transport speed.

ITL

(International Transmissions Ltd.)
Industrial Estate
Wrexham, North Wales
LL13 9UF
United Kingdom
Phone: +44 1978 661140
Fax: +44 1978 664262
Website: www.itl-trans.com

Contacts

Nigel Harding, nigel.harding@itl-trans.co.uk
John Snodin, john.snodin@itl-trans.co.uk

Product Line

Drivetrain components for off-highway machines, diesel engines, transmissions (powershift and synchroshuttle) and axles (rigid and steering).

**JOHN DEERE
POWER SYSTEMS**

Funk Drivetrain Components

3801 West Ridgeway Avenue
P.O. Box 3500
Waterloo, IA 50704-5100

John Deere Coffeyville Works:
Industrial Park, Hwy 169 North
P.O. Box 577
Coffeyville, KS 67337

Phone: 800-533-6446
Fax: 319-292-5075
E-mail: jdpower@johndeere.com
Website:
www.johndeere.com/jdpower

Contacts

Worldwide Manager of Sales:
Robert Preschel
Product Managers:
Dawn Eike, Quintin Saye

Product Line

Pump drives, inboard planetary axles, mechanical and powershift transmissions, and planetary gearboxes for off-road mobile and stationary equipment.

KNOTT BRAKE CO.

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Lodi, OH 44254
Phone: 330-948-0144
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E-mail:
kfleeman@knottbrake.com;
l-cseko@knottbrake.com
Website: www.knottbrake.com

Contacts

Sales and Marketing: Ken Fleeman (brakes); Louis L. Cseko, Jr. (friction)
Engineering: Joe Kott, Bob Gogolin

Product Line

Mechanical and hydraulic brake systems and components for off-highway and industrial equipment and friction materials.

New Products

KFM Friction, the joint venture between Knott Brake and Germany's Frima Friction Material Reibbelag GmbH Co. KG, has announced the

addition of Beral equivalent friction materials. Available as linings, the materials are well suited to medium- and heavy-duty parking brake applications while still being cost-effective for light-duty vehicles. Like all of KFM materials, the Beral equivalent products are asbestos-free.

KTR CORP.

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Phone: 219-872-9100
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E-mail: ktr-us@ktr.com
Website: www.ktrcorp.com

Contacts

Market Manager: Larry Schlich
Engineering: Gren Brunjes

Product Line

Flywheel couplings and hydraulic pump drive accessories, steel disc API and curved jaw-style shaft couplings, magnetic drive couplings, keyless clamping elements, torque limiters, precision universal joints and torque measuring devices.

LOGAN CLUTCH CORP.

28855 Ranney Parkway
Cleveland, OH 44145
Phone: 440-808-4258
Fax: 440-808-0003
E-mail: alogan@loganclutch.com
Website: www.loganclutch.com

Contacts

President: Andrew Logan
Sales Engineer: Mike Vining
Manager – Parts and Service: Ed Gallucci

Product Line

Power takeoffs, PTO clutches, multiple disc clutches and brakes, friction and steel clutch discs.

New Products

Logan has expanded its front PTO

offering to include Caterpillar, Kohler and Cummins diesel engines. The clutches are designed to transmit up to 100% of the engine's torque off the front of the engine.

LOVEJOY INC.

2655 Wisconsin Avenue
Downers Grove, IL 60515
Phone: 630-852-0500
Fax: 630-852-2120
E-mail: info@lovejoy-inc.com
Website: www.lovejoy-inc.com

Contacts

Sales and Marketing: David Mortensen
Engineering: Dan Fagan

Product Line

Flexible shaft couplings including straight jaw, jaw in-shear, curved jaw, S-flex, motion control, disc, torsional, gear, grid, universal joints, variable speed pulleys, ROSTA tensioners and motor bases. Hydraulic components include aluminum reservoirs and accessories, coolers and pump motor adapters. The company also offers full-service powder metal sintering capabilities.

New Products

Lovejoy Inc.'s new rotation-elastic Rosta MB 100 Motorbase, with a slip-page-compensating operating mode, is designed to provide maintenance-free suspension for the drive motors used in machinery with big friction belt drives such as stone crushers, woodchippers, stone saws and cyclone pumps. The flexibly mounted and pre-tensioned drive motor is engineered to automatically and continuously compensate for belt elongation. This effectively eliminates torque peaks, greatly improving the service life of the belt sets, the company said.

The self-adjusting universal motorbase is for friction belt drives with drive power in the 120 to 335 hp range. The heavy-duty motorbase comes fully assembled and ready to

use. The two-part motor plate includes as a standard feature, the mounting holes for all motor frame sizes listed above. The belt tension can be accurately set by using a mechanical pre-tensioning unit, the company said.

The bevel gear-lifting spindle has a maximum tensioning travel of 4.7 in. and, depending on the desired motor inclination angle, can be secured to two different positioning holes on the Rosta rubber suspension element.

MARCO GLOBAL INC.

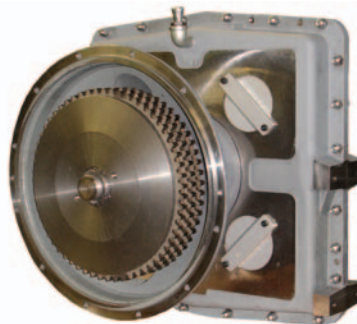
4259-22nd Avenue West
Seattle, WA 98199
Phone: 206-285-3200
Fax: 206-282-8520
E-mail: sales@marcoglobal.com
Website: www.marcoglobal.com

Contact

Sales: David Reid

Product Line

Remote air or oil-actuated clutches and hydraulic pump drives for marine and industrial applications from 100 to 1000 hp.



Marco Global DS48 pump drive.

New Products

Marco Global is offering a new series of hydraulic pump drives for heavy-duty applications. Eight sizes are available ranging from 100 to 1000 hp and with various increasing or decreasing gear ratios and a selection of input arrangements.

Integrated into the pump drive is an engine-mounted, remote-operated in-

put clutch; available with either air or oil actuation. The clutch requires no pilot bearing or clutch plate adjustments, said Marco. It comes in standard SAE 11 in. through 18 in. sizes and SAE zero through three flywheel housings.

The clutch design also incorporates a balanced-force approach to eliminate thrust loads and reduce generated heat, prolonging seal and bearing life, said the company.

Marco has also introduced the series DS of compact oil-actuated pressure-set clutches, designed as an input clutch to a hydraulic pump drive, pump drive output clutch, single pump PTO and for use in direct drive-line applications.

Engagement speeds are able to reach 3500 rpm with actuation pressure controlling the clutch slip torque, said Marco. The DS clutches are available on standard SAE C or D configurations at either input or output shaft ends. It's rated for 1200 lb.ft. of torque.

MICO INC.

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Website: www.mico.com

Contacts

Sales: Gregory Juberien, Brad Stage, Jason Huntley
Engineering: V.J. "Tod" Tillman, Peter Backes



A MICO check valve assembly.

Product Line

Braking and controls including: hydraulic and electrohydraulic components and brake systems for heavy-duty, off-highway vehicles and equipment; hydraulic accumulator charging valves; air/hydraulic actuators; hydraulic brake valves (two-fluid and modulating types); electrohydraulic brake systems; brake locks; caliper disc brakes; multiple disc brakes; master cylinders; power cylinders; remote actuators; slave cylinders; and wheel cylinders.

New Products

MICO has developed a check valve assembly designed for full-power brake systems in mobile equipment and vehicles. The system is a compact manifold assembly that incorporates a check valve and an inverted shuttle valve. The assembly supplies fluid for two separate accumulator circuits while reducing the necessary number of system components and limiting plumbing and hardware requirements, MICO said.

The MICO check valve assembly is targeted toward full-power hydraulic brake systems that must store energy in two separate accumulator circuits, such as split systems with a pressure-compensated pump and electrohydraulic accumulator charging controlled by a pressure transducer at the unit's switch port.

The system features high flow capacity — up to 11 gpm — and has a maximum operating pressure of 3625 psi. Pressure is supplied to two accumulators by the assembly's inlet port. The inverted shuttle valve isolates the higher pressure of the two accumulator circuits, while directing the lower pressure to the switch port. A check valve prevents pressure at the switch port from leaking back to the inlet port.

By combining the functionality of multiple components into a single housing, MICO said the check valve assembly decreases costs and time required for installation. Its design is also intended to reduce potential leak

points and contain possible failure points for the hydraulic system. The assembly limits check valve leakage to a maximum of 0.25 cc per minute at 3500 psi.

NORAM

(North American Clutch Corp.)
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4360 N. Green Bay Ave.
Milwaukee, WI 53209
Phone: 414-267-4000, 866-337-5906
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E-mail: jeffh@noram-clutch.com
Website: www.noram-clutch.com

Contacts

Sales and Marketing: Jeff Hargarten,
Greg Mangan
Engineering: Dave Hampson

Product Line

Mechanical clutch brakes, centrifugal clutches, bolt-on speed-reducing gearboxes, low-voltage actuators and spindle assemblies.

NORTH AMERICAN CLUTCH & DRIVELINE

10901 North Second Street
P.O. Box 15130
Rockford, IL 61115-5130
Phone: 800-383-9204; 815-282-7960
Fax: 815-282-9160
E-mail: sales@naclutch.com
Website: www.naclutch.com

Contacts

Sales and Marketing:
Derek Lemmons
Engineering: Bill Clemens

Product Line

Manufacturer of industrial power take-off assemblies ranging from SAW 5 housings with 6.5 in. clutches to SAE zero housings with 18 in. PTOs with single, double or triple plates as well as spring-loaded mechanical clutches for agricultural tractors and off-highway equipment.

OGURA INDUSTRIAL CORP.

P.O. Box 5790
Somerset, NJ 08875
Phone: 732-271-7361
Fax: 732-271-7580
E-mail: jandes@ogura-clutch.com
Website: www.ogura-clutch.com

Contact

Jim Andes

Product Line

Electromagnetic clutches and superchargers.



Ogura's EMB-300CP brake.

New Products

Ogura has introduced a line of electromagnetic clutches developed to handle the torque and speed requirements of most small to midsize gasoline and diesel engines up to 40 hp. The clutches are designed to fit engine shaft sizes of 1, 1.125, 1.25 and 1.44 in. and can either drive components directly or through a belt-drive system. In all, Ogura offers more than 3000 different clutch models.

Ogura has also developed a new spring-applied electric caliper disc brake that uses a series of springs to apply force to a friction disc and release it when voltage/current is applied. The electrically operated EMB-300CP brake measures approximately 7 in. long, 5 in. wide and 6 in. high and can produce 710 lb. of axial force, the company said. Normal operating voltage is 45 V with over-excitation operation voltage reaching 90 V.

The brakes are modular in design and can be configured with two brakes on one disc to double the torque, said Ogura. They can also be made with integral limit switches to register if the brake is engaged or disengaged. They can be used in a variety of industrial applications.

PT TECH INC.

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Sharon Center, OH 44274
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E-mail: info@pttech.com
Website: www.pttech.com

Contact

General Manager – Engine Products Group: Joe Guinter



PT Tech PTO.

Product Line

Power transmission products for the off-highway market including diesel engine clutches and enclosed wet brakes for severe-duty machines in both standard and custom designs, and complete clutch systems that are micro-processor controlled and hydraulically operated.

New Products

PT Tech has introduced its new HPTO12TS diesel engine clutch, designed for severe-duty applications. The new clutch has a 460 hp capacity and features an SAE J1939 compatible proportional control system, shorter overall length and a metric output shaft.

The company said the self-adjusting clutch's integrated torque-limiting capa-

bility can provide significant drivetrain protection and offers high side-load capacity without the use of pilot bearings.

RINGFEDER POWER TRANSMISSION USA CORP.

165 Carver Avenue
Westwood, NJ 07675
Phone: 201-666-3320; 888-746-4333
Fax: 201-664-6053
E-mail: sales@ringfeder.com
Website: www.ringfeder.com

Contacts

Sales and Marketing:
Carl W. Fenstermacher
Engineering: Robert E. Maul

Product Line

Reciprocating engine flywheel couplings, including u-joint couplings and keyless shaft/hub connections.

Company News

Ringfeder Corp. has changed its name to Ringfeder Power Transmission USA Corp. The new corporate identity is intended to create a unified global image and provide a platform for three global brands — Ringfeder, Ecoloc and Gerwah.

The Ringfeder line includes locking devices, shrink discs, Smart-Lock shaft connection systems, friction springs, shock absorbing units and fluid elastomeric dampers as well as torsionally flexible couplings. Ecoloc offers locking devices and metal bellows couplings, while Gerwah offers a variety of couplings specifically for packaging machinery.

RJ LINK INTERNATIONAL INC.

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Website: www.rjlink.com

Contact

Sales Manager:
Eric Holstein, eholstein@rjlink.com

Product Line

Manufacturer of gearboxes including speed increasers, speed reducers, transfer cases and custom designs for industrial original equipment ranging from 25 to 1050 hp.

STIEBEL DRIVE TECHNOLOGY

2131 Woodruff Road, Suite 2100
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Fax: 864-987-0098
E-mail: m.johns@stiebel-drives.com
Website: www.stiebel-drives.com

Contact

Vice President Sales: Mark Johns

Product Line

Pump drives with one to four outputs for SAE A to F size pumps, diesel or electric motor inputs, speed increase or decrease outputs, split-shaft power take-offs, steel and aluminum housings.

Company News

Stiebel has announced two manufacturing contracts. The company has been awarded a contract to manufacture the mechanical drive in Bosch Rexroth's HRB hybrid system and will manufacture the mechanical drive for Hytrac's Hydrotransmatic Plus drive-line system for off-road vehicles.

TORSION CONTROL PRODUCTS

1900 Northfield Drive
Rochester Hills, MI 48309
Phone: 248-537-1900
Fax: 248-537-1901
E-mail: mmackool@torsioncontrol.com
Website: www.torsioncontrol.com

Contact

Sales: Mick Mackool, vice president

Product Line

Helical spring torsional couplings and torque limiters up to 3000 hp.

TUFF TORQ CORP.

5943 Commerce Boulevard
Morristown, TN 37814
Phone: 423-585-1980
Fax: 423-585-2003
E-mail: sales@tufftorq.com
Website: www.tufftorq.com

Contact

Sales and Marketing:
Frank Freeman, manager

Product Line

Transmissions, transaxles, hydrostatic transaxles for lawn and garden, turf, small ag, utility and light industrial vehicles, piston pumps, marine transmissions.

TWIN DISC INC.

1328 Racine Street
Racine, WI 53403
Phone: 262-638-4000
Fax: 262-638-4482
Website: www.twindisc.com

Contacts

Sales and Marketing: Darryl Babu, vice president North American sales and marketing; Tom Schoepel, North American sales manager
Engineering:
Dean Bratel, vice president

Product Line

Heavy-duty off-highway power transmission equipment including hydraulic torque converters, electronically controlled all-wheel drive transmission and torque converter systems, power takeoffs, pump drives, hydraulic and pneumatic clutches and gas turbine starting drives.

New Products

Twin Disc has introduced the TA90-7500 Series transmission, a smaller, lighter weight complement to its

TA90-8501 Series. The 7500 Series automatic transmission comprises a nine-speed coaxial power-shift transmission and an advanced electronic control system, said Twin Disc, with a maximum gross input power rating up to 2600 hp at 1900 rpm.

The new transmission incorporates an aluminum housing designed to reduce overall vehicle weight, as it weighs approximately 1100 lb. less than the larger TA90-8501. Overall length is 61 in. In addition, it can handle two PTOs up to 200 hp and includes a torsional coupling.

VIBRATECH TVD LLC

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Phone: 716-592-1000
Fax: 716-592-1001
E-mail: Lynn.Livermore@vibratechtvd.com
Website: www.vibratechtvd.com

Contact

Sales: Lynn Livermore

Product Line

Heavy-duty viscous torsional vibration dampers for diesel engine applications.

VON RUDEN MANUFACTURING INC.

1008 First Street NE
P.O. Box 699
Buffalo, MN 55313-0699
Phone: 763-682-3122
Fax: 763-682-3954
E-mail: sales@vonruden.com
Website: www.vonruden.com

Contact

Sales, Marketing and Engineering:
Brandon Anderson

Product Line

Right angle gearboxes, planetary gearboxes, parallel shaft speed reducers, overhung load adapters, cus-

tom parts production, hydraulic motors, VDI-driven tooling gearboxes.

WORLD WIDE METRIC INC.

37 Readington Road
Branchburg, NJ 08876
Phone: 732-247-2300
Fax: 732-247-7258
E-mail: sales@worldwidemetric.com
Web: www.worldwidemetric.com

Contact

George Contos, CEO

Product Line

World Wide Metric specializes in expansion joints and flanges that are available in metric DIN and JIS flanges in carbon and stainless steel, slip on, weld neck, blind and lap joint. The company stocks sizes ranging from 0.375 to 24 in. Larger sizes from 26 to 64 in. are available upon request. The company also produces hydraulic fittings in DIN 2353 metric compression, SAE J514 37 degree flared, SAE J1453 ORFS, BSI 5200 BSP adaptors, hose and hose fittings, brass compression, flared and pipe fittings, metric copper solder fittings, and hydraulic precision tubing in steel and stainless steel.

WPT POWER TRANSMISSION CORP.

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Product Manager: Wes Carlson, carlson@wptpower.com
Marketing Manager: Tyler Kisner, kisner@wptpower.com
General Sales Manager: Rich McKelvey, mckelvey@wptpower.com
Customer Service Manager: Sidney Kelly, s.kelly@wptpower.com

Product Line

WPT Power Transmission is an international manufacturer of pneumatic and hydraulic power take-offs, clutches and brakes for a broad range of industrial and petroleum applications.

ZERO-MAX INC.

13200 Sixth Avenue North
Plymouth, MN 55441
Phone: 800-533-1731; 763-546-4300
Fax: 763-546-8260
Website: www.zero-max.com

Contact

Sales and Marketing: Robert Mainz

Product Line

Overhung load adapters, variable speed drives, spiral bevel gear drives, adjustable speed drives for chain drive systems.

New Products

Zero-Max has expanded its range of overhung load adapters (OHLA) designed to provide radial and axial load support and reduce premature hydraulic motor or pump bearing failure. Applications include forestry shredders, recycling machinery and cold planers for road paving.

The OHLAs are constructed of premium materials with cast housings and precision machined stress-proofed steel shafts. Designed for either face or foot mounting, they are available with a variety of shaft options including splined, threaded,

tapered and extended output shafts. Special input bores and housing modifications are also available, the company said.

More than 50 standard models are available for handling axial and radial overhung loads on most motor or pump shafts. Input bore sizes range from 5/8 in. to 3.5 in. SAE mounts available include A, B, C, D, E, and F mounts with two- or four-bolt mounting flanges.

Zero-Max has designed and manufactured more than 1500 custom designs to application requirements, including submersible units. All custom OHLA designs include a detailed approval drawing submitted prior to manufacture, the company said.

ZF INDUSTRIES INC.

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Vernon Hills, IL 60061
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Fax: 847-478-6811
E-mail: offhwyinfo@zf.com
Website: www.zf.com

Contact

President: John Duncan, Off-Road Driveline Technology and Axle Systems, North America

Product Line

ZF supplies powershift and hydrostatic transmissions, steer and rigid axles, electronic controls, torque converters and mixer drives for construction, agricultural and material handling vehicles.

New Products

The Off-Road Driveline Technology and Axle Systems Division of ZF will use bauma 2010 to launch a production-ready off-highway hybrid drive system based on its Ergopower automatic transmission for the heavy-duty markets. The hybrid transmissions will not only manage the drivetrain system, optimizing the utilization of combustion engine and electric motor, but will also deal with the vehicle's ancillaries, the company said.

ZF will also show a new continuous variable transmission (CVT) for construction machinery at the Munich, Germany, event.

Company News

ZF reached a milestone late last year when it assembled the 20,000th S-Matic stepless transmission for agricultural machinery applications at its Passau-Patriching plant. The company began volume production of the continuously variable tractor transmissions in 2000.

The S-Matic transmission was originally launched by the former Steyr Antriebstechnik, which was taken over by ZF in May 2000. Volume production started at Steyr location and was relocated to Passau in 2005. The continuously variable S-Matic transmission covers a power range from 150 to 240 hp and is designed to allow stepless operation within a range of zero to 31 mph.

In parallel to this milestone, ZF said the S-Matic transaxle has entered volume production for Same Deutz-Fahr CVT tractors rated up to 200 hp.
