

SKF

LAUNCHES RE-ENGINEERED MOUNTED BALL BEARING UNITS

SKF has launched a newly re-engineered product line of mounted ball bearing units with industry-standard inch series cast iron housings in several designs, high-performance SKF inch or metric insert bearings, and several shaft-locking methods. These mounted bearing units will suit a wide range of light- and medium-duty industrial applications, including conveyor systems, fans and air-handling equipment, and similar machinery across industries.

Four robust cast iron housing types have been introduced: pillow block units (P2B, P2BL, and P2BM series), 4-bolt square flange units (F4B and F4BM series), 2-bolt oval flange units (F2B series), and tapped base units (P2BT series). All housings conform to ABMA (American Bearing Manufacturers Association) inch series dimensional standards and their solid construction adds strength and promotes stability in service. The housings in an assortment of bore sizes are supplied pre-lubricated and with grease fittings for re-lubrication. Housings easily slip fit onto a shaft. Set screw, eccentric, or concentric shaft-locking mechanisms can be specified.

Unlike competing versions in the marketplace, these mounted units exclusively integrate highly engineered, high-quality SKF brand insert ball bearings (inch or metric). Their race-



ways have been ground and honed to provide precision, quiet running, and higher speed capability. A molded glass fiber reinforced polyamide cage adds durability. In addition, the outside diameter of the bearing and the inside diameter of the housing have been uniquely sphered, allowing the bearing to swivel within the housing and compensate for any errors in initial alignment during installation.

These mounted ball bearing units

ultimately offer ideal solutions accommodating diverse mounting surfaces, load requirements, shaft sizes, and dimensional requirements, whether in OEM or aftermarket applications. Custom mounted bearing products can be developed.

For more information:

SKF USA Inc.
Phone: (800) 440-4753
www.skfusa.com

R+W

OFFERS MID-SIZE HEAVY-DUTY SAFETY COUPLINGS

R+W has recently introduced two new smaller STN series safety couplings with conical clamping hubs, to bring heavy duty industrial style overload

protection into midsize applications. The two new sizes, 2 and 5, cover disengagement torques ranging from 200 to 5,000 Nm, and shaft diameters from 45 to 80 mm (1.750" to 3.125").

Taking advantage of the well-proven ball-detent safety element system, the driving and driven ends separate within milliseconds of a torque overload, releasing the motor inertia from the driveline, and reducing expensive repairs and costly downtime. The driveline is free to coast to a stop after disengagement, and re-engagement simply requires that a force be applied to the back sides of the plunger modules,

either with a mallet or pry bar. Disengagement torque values are adjustable in the field and multiple ranges are available depending on the module configuration.

These safety couplings are designed with an output flange that can connect to a pulley or sprocket. Shaft to shaft connection methods are also available with either disc, elastomer, bellows, or gear coupling designs.

For more information:

R+W America
Phone: (630) 521-9911
www.rw-america.com



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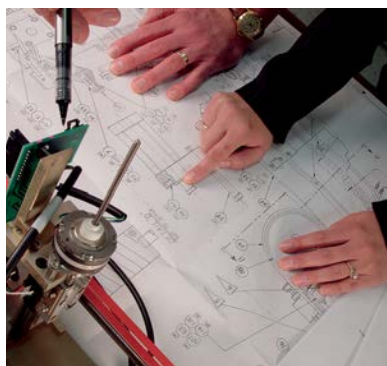
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Brecoflex

INTRODUCES OPEN-ENDED TIMING BELT

Brecoflex CO., L.L.C. is pleased to introduce the newest belt option in its move-series, the AT10move-M. This open-ended version joins the successful BFXmove truly endless timing belt that was launched in 2015. The move-series represents the next generation of timing belts, offering up to 75 percent higher stiffness and 30 percent higher transmittable force than the standard AT10 belt.

The advantages of AT10move open-ended belts include:

- 75% higher stiffness and tensile strength
- 30% higher transmittable force
- permits reducing the belt width by one standard size
- narrower drive reduces drive inertia and noise
- reduced wear and increased service life

In linear drive applications, the high tensile strength and high stiffness of the "move tension members" ensure faster settling and more accurate positioning with a very high degree of preci-

sion. The high load-bearing capacity of the tension members, optimized tooth shape and low-friction coefficient of the belt coating provides advantages in applications where long service life and low friction are important. These properties proved superior for BFXmove, and will make AT10move-M the most outstanding option for linear drives.

Move-series AT10-M is currently available in 25 mm, 32 mm, 50 mm, 75 mm and 100 mm widths with galvanized steel tension members.

The diagram below demonstrates the belt stiffness of the AT10move compared to other common belt sizes. One can clearly see that the AT10move opened ended belt provides a higher stiffness in a smaller belt, enabling the machinery to run efficiently with a more compact belt.

For more information:

Brecoflex LLC
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Nexen

BD CALIPER BRAKES OFFER HIGHER CLAMPING FORCE

Nexen Group, Inc. offers three models of BD (brute disk) caliper brakes: air actuated, spring actuated/air released, and spring actuated/hydraulically released. The innovative BD design utilizes arms to provide a mechanical advantage, allowing higher clamping force. (Stopping power can be multiplied by installing additional caliper brakes on each disc.) Torque ranges from 8,000 to 23,000 in.-lbs., with disc diameters from 12 to 24 inches. Actuators mount on either side of the brake. Connections can be rotated 360° around actuator axis, and all pivot points have life lubricated bearings.

Brake shoes are mounted with detent pins for quick replacement. Larger, curved brake shoes with more contact area are available for longer life and higher peak input rate.

Highlights of the BD caliper brake (features vary by model) include static brake torque (8,000 to 23,000 in.-lbs.), a maximum disc speed of 3,200 rpm, optional discs: 12 to 24 in., a disc thickness of 0.50 to 1.00 in. and QD Bushing compatible for shaft sizes up to 3.875 in.

For more information:

Nexen Group
Phone: (800) 843-7445
www.nexengroup.com



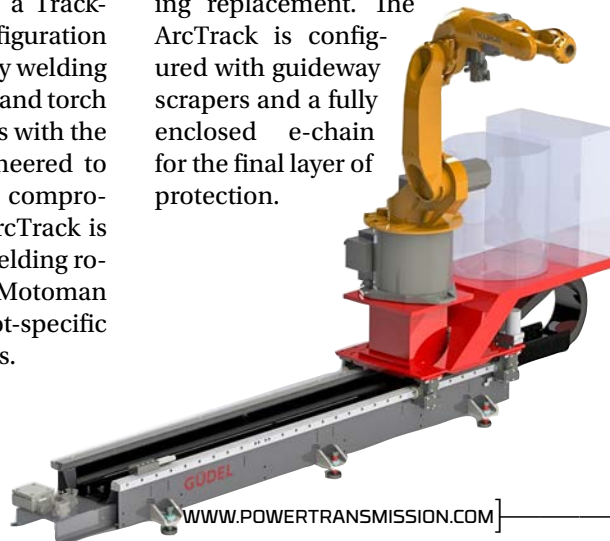
Güdel

INTRODUCES TRACK MOTION MODULE FOR ARC WELDING APPLICATIONS

Güdel, the global manufacturer of linear motion modules, robot track motion units, gantry robots and components, introduces ArcTrack, a pre-configured robot track motion module for arc welding applications that delivers the highest flexibility and reduces lead time by 40 percent.

Güdel has pre-engineered a TrackMotion Floor (TMF-2) configuration with an auxiliary shelf to carry welding equipment, large wire spools and torch cleaning and reaming devices with the robot. The shelf is pre-engineered to support over 750 kg with no compromise in performance. The ArcTrack is available for all leading arc welding robots, including Fanuc, ABB, Motoman and KUKA, and includes robot-specific gear boxes, motors and cables.

All Güdel TrackMotion units are designed and engineered for harsh environments, including welding, painting, die cast, foundry, sealing, machining and grinding. Güdel's unique cam follower and cartridge bearing design handle the worst environments, and enable 15-minute MTTR for bearing replacement. The ArcTrack is configured with guideway scrapers and a fully enclosed e-chain for the final layer of protection.



Güdel TrackMotion units, including the ArcTrack, are available in lengths from 3–100 meters, and can be equipped with robot risers from 50–600 mm. Because ArcTrack is a standard engineered solution, lead times are reduced to 8–10 weeks from order.

For more information:

Güdel Inc.
Phone: (734) 214-0000
www.gudel.com

Renold Gears

DISPLAYS RANGE OF GEARING
SOLUTIONS AT IAAPA

Renold displayed its range of gearing solutions for theme park rides at the IAAPA Attractions Expo in November. IAAPA is the International Association of Amusement Parks and Attractions and represents nearly 5,000 amusement-industry members in 99 countries worldwide. It operates several global amusement-industry trade shows with Orlando being the largest. Renold is a long established and trusted supplier to the global theme park industry and offers a wide range of solutions, including custom designed gear units, with the choice of helical, bevel or worm gear types. Renold's experienced engineers were available throughout the duration of the show to offer advice on gearing for new rides as well as replacement gear units, maintenance and refurbishment. Renold's booth also displayed the new RBI coupling range, fluid couplings, sprag clutches and trapped roller free-wheels. The latter are precision devices that are fitted to provide absolute safety in the event of drive failure. If such a failure were to occur a backstopping safety feature engages immediately to protect the riders and the ride itself from back running.

For more information:

Renold Gears
Phone: +44 (0) 1706 751000
www.renold.com



Renold Gears supplies many gearing solutions for the amusement park industry.



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Hansford Sensors

RELEASES HIGH-PERFORMANCE CABLE OPTION FOR INDUSTRIAL ACCELEROMETERS

Hansford Sensors has released a new FEP cable option for its high-performance vibration sensors. The new cable and connector design meets the needs of several industries, but is specifically suited for the extreme demands of mining and heavy applications.

Hansford Sensors said: "In developing this new premium design cable option for our vibration sensors, we've met the specialist requirements of machinery operating in even the most extreme of applications. The FEP cable with its protective conduit is available to order now and can be paired with several of



The new FEP cable features a protective conduit made from stainless steel, which is highly resistant to oil, rust and corrosion and ideal for withstanding the demands of harsh industrial environments without compromising performance. Highly flexible, this cable and conduit combination also offers impressive compression, impact and tensile strength. With notable resistance to abrasion and tearing, the FEP cable is able to withstand temperatures ranging from -80°C to 200°C.

Commenting on the new launch, Chris Hansford, managing director of

our popular HS-100 and HS-150, top and side entry AC accelerometers."

Available with both dual acceleration and temperature outputs, the FEP cable and protective conduit is ideal for a broad range of industries including building services, pulp and paper, mining, metals, utilities, automotive, water and pharmaceutical.

For more information:

Hansford Sensors U.S.
Phone: (888) 450-8490
www.hansfordsensors.com

Ogura Industrial

IMPROVES AMC AND AMB SERIES DESIGN

Ogura Industrial is pleased to announce a new addition to our product line. Although the AMC and AMB series are not new, they have gone through significant design improvements. Because of these improvements, the AMC/AMB-E series is finding new opportunities for machinery manufacturers in North America because of some of its unique features.

The new E series is available in four

sizes, 2.5, 5, 10, and 20. These have been redesigned to have approximately a 25% increase in torque, a 5% reduction in power consumption, approximately a 15% lighter weight while also being roHs compliant and having a lower cost. These increases in performance and lower cost have been achieved by optimizing the coil, housing and rotor design to achieve a more efficient flux path.



For more information:

Ogura Industrial Corp.
Phone: (732) 271-7361
www.ogura-clutch.com

Igus

REDUCES AUTOMATION COSTS WITH
BELT DRIVE AXES

Mechanical engineers often need a basic, space-saving linear guide when designing technology that performs simple tasks, such as vending machines. Since such technology does not handle high loads, high speeds or high positioning accuracy, intricate linear guides are not necessary. However, most solutions on the market are very advanced, leaving manufacturers forced to either pay for features they do not need or develop their own linear guide.

Igus is now offering the drylin ZLW eco, a ready-to-install entry-level series that is making simple position-

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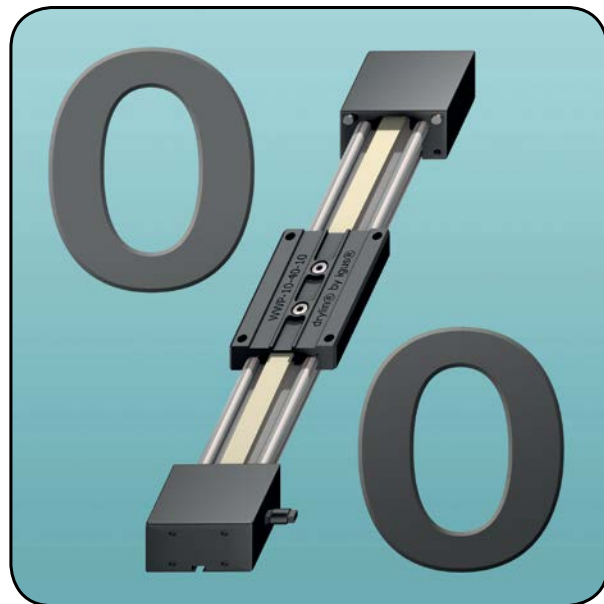
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ing and adjustment tasks extremely efficient and, above all, cost-effective. "A toothed belt axis of this entry-level series with a stroke length of 100 millimeters starts as low as 150 dollars," said Stefan Niermann, head of Igus' drylin linear and drive technology division. "In comparison, a toothed belt axis from the standard series, which has high-performance features and is therefore unnecessary to use for simple operations, costs almost three times more." The carriage and shaft end supports are produced by injection molding, which is more cost-effective than mechanical filling used for metal component production. "This also reduces the number of components and thus the installation efforts for every eco linear axis, which in the end is reflected in the low prices of this entry-level series," explained Niermann. A further cost-saving element of the drylin ZLW eco is the plain bearings used in the sliding carriage, which are made of iglide high-performance plastics. "Iglide bearings are forty percent more cost-effective than conventional rolling bearings and 100 percent maintenance-free in operation," Niermann said. Without compromising the smooth-running operation and durability of the standard series, users can simply install the eco axes and save time and money with the maintenance-free, dry-running triboplastic bearings.



The entry-level drylin ZLW eco has two installation sizes: 0630 and 1040. The base is an anodized drylin W profile made of clear anodized aluminum. At the ends of the profile are plastic shaft end supports for drive technology. A neoprene toothed belt is tensioned between the shaft end supports, which pushes and pulls a solid plastic carriage with a positioning accuracy of 0.3 millimeters. The stroke lengths can be individually adjusted by the user. Due to its lightweight construction, the toothed belt axes weigh only 0.3 kg and 0.7 kg, and can move loads up to 3 kg or 10 kg respectively. Matching motor kits also are available.

For more information:

Igus
Phone: (800) 521-2747
www.igus.com

DESTACO

INTRODUCES VACUUM CUPS FOR PICK-AND-PLACE PARTS HANDLING

DESTACO, a provider of precision movement, positioning and control solutions in industrial automation, is leading the way in vacuum-cup innovation with the introduction of its new Deepdish Series Vacuum Cups, which are designed to maximize grip performance on contoured and oily surfaces.

The new DESTACO Deepdish Series Vacuum Cups feature an all new bell-shaped body design, available in three sizes, 65, 90 and 110 mm. Unique, molded-in gussets prevent the cup edges from rolling up on convex surfaces while the thin, pliable design and special inner tread pattern allow the cups to effectively adhere to flat, convex, concave, domed and oily surfaces for maximum grip performance.

"The addition of the Deepdish Series to our vacuum cup line instantly expands the number of applications and uses for our cups. These new cups establish a whole new standard of operational reliability, longevity and productivity for our customer's pick-and-place parts handling needs," stated Matt Girand, vice president, global research, development and engineering of DESTACO. "We're constantly striving to innovate new ways to help manufacturers improve their production processes, and the addition of the Deepdish Vacuum Cups illustrates this commitment."

Another key attribute that sets the new DESTACO Deepdish cups apart from all others is the polyurethane materials-of-construction. Polyurethane provides superior wear-resistance when compared to rubber to promote longer service life and reduced maintenance. In addition, polyurethane will not leave any marks on handled objects and has fantastic elastic memory, even after hundreds of thousands of cycles. To top off this robust feature set, the new DESTACO Deepdish cups have a durometer of 60 (PU60, translucent red in color). The 60 durometer makes it easier to pick up highly contoured panels, while also being capable of withstanding the elevated shear forces that are created by increased acceleration and deceleration rates.

For more information:

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Röhm

OFFERS LUBRICATION SYSTEM, CLAMPING SYSTEM AND DRONE GRIPPER

Röhm exhibited several of the company's latest product developments at EMO 2017 including the Lubritool lubrication system, an intelligent clamping system, a drone gripper and several industry-specific solutions.

The Lubritool system is the most intelligent lubricating tool on the market and enables automatic lubrication of tool clamping systems in machine tools within seconds instead of minutes. It reduces costly and time-consuming maintenance work associated with the manual lubrication process and prevents machine downtime. At



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EMO, the Lubritool received the MM Award for innovation presented by the trade journal *MaschinenMarkt*.

Röhm also showcased an intelligent clamping system that opens new possibilities in workpiece clamping by supporting manufacturers in Industry 4.0 initiatives. The system registers clamping force during rotation and during the course of machining, logging status data and prompting users to undertake proactive maintenance when necessary.

To meet the needs of the growing drone market, Röhm debuted a gripper that makes it possible for drones to grip, move and release objects automatically. Additionally, visitors to the company's booth experienced several industrial solutions for railways and the oil and gas industries, as well as an all-around package for the machining of artificial hip and hip socket implants—a market that is steadily growing as life expectancies increase.

For more information:

Röhm Products of America
Phone: (770) 963-8440
www.roehm.biz



Iwis

OFFERS GRIP CHAINS WITH WEAR-RESISTANT CLAMPING ELEMENTS

Chain manufacturer Iwis presents grip chains that have wear- and corrosion-resistant clamping elements that ensure safe and reliable feeding, transport and positioning of thin-walled materials with a large surface area. Grip chains are used, for example, in packaging, medical technology, electronics, PCB production and metal-working industry applications. For use in food processing, all chains are available with food-grade lubrication.

The clamping elements allow the chain to grip and hold thin-walled materials with large surface area, such as films. Different levels of spring force allow a wide range of materials to be gently gripped and securely held. Conventional grip chains often have the drawback that the clamping elements do not provide enough space to insert the film. They also apply a point load to the film, which can cause the film to deform at the gripper or even to rupture. They are also noisy in operation. The gripper of the new grip chains from Iwis fits into its groove very accurately and therefore offers a better retention force. More free space in the foil insertion area allows an improved foil feed and the foils do not twist or deform at the edge of the gripper element. This design also reduces noise emissions. The grip chains also feature burled plates, which ensure a reliable operation and optimum hygiene.



High-performance grip chains from Iwis have an outstanding wear resistance. Being optimally pre-stretched, the chains exhibit only a minimal initial elongation. Being highly rigid, they can also be used in long machines. Identical chain lengths within the selected tolerance range ensure excellent running characteristics in both synchronous and parallel operation.

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