

'One-for-all' synchronous belt drive solution for arduous applications

THE INTRODUCTION OF THE CONTI SYNCHROCHAIN® 'ONE-FOR-ALL' BELT DRIVE SOLUTION THAT IS AN IDEAL ALL-ROUND SYNCHRONOUS BELT FOR ARDUOUS APPLICATIONS, WHERE IT IS ESSENTIAL TO HAVE NOT ONLY MAXIMUM POWER TRANSMISSION, BUT ALSO MAXIMUM RESISTANCE TO AN ADVERSE WORKING ENVIRONMENT. IT IS ALSO A CREDIBLE ALTERNATIVE TO CHAIN DRIVES, AS NO LUBRICATION IS REQUIRED.

In contrast to other synchronous belts which can be noisy and wear out pulleys it is quieter and less aggressive due to its CTD profile and the special finishing layer on its working surfaces. Conti Synchrochain® ensures reliable power transmission for high torques and high dynamic stresses. In addition, it is very hard wearing, resistant to moisture, temperatures between -40°C and +100°C, and has excellent chemical stability. The belt maintains reliable, 'maintenance-free' performance even when exposed to harsh elements and aggressive substances such as salt, oil, grease and abrasive solid matter.



Conveyor chain gets heavy duty

To complement the existing range of British Standard Conveyor Chain, Renold has introduced an extra strength chain that is more suitable for conveyor applications selected on ultimate tensile strength (breaking load). Each chain is the same size dimensionally as its normal counterpart, for example an extra strength 24000 lbs chain has basically the same dimensions as a normal 12000 lbs series chain.



This chain is used extensively in the conveying of bulk food stuffs such as grain, maize, wheat and raw food mixtures and waste processing by-products. Most of these applications use scraper type conveyor systems that normally have long centre distances between sprockets. Such systems are sometimes slow moving with little or no shock loading, hence the chain has to take the strain.

Tough seals meet face-to-face

A NEW RANGE OF METAL-FACED SEALS FROM PIONEER WESTON DRAWS ON 60+ YEARS OF EXPERIENCE DESIGNING, DEVELOPING AND MANUFACTURING MECHANICAL ROTARY SEALS WITH THE ADDITION OF O-RING ELASTOMERIC MATERIALS EXPERTISE AND DESIGN TECHNOLOGY FROM PARENT COMPANY ERIKS – ACKNOWLEDGED AS EUROPE'S LARGEST MANUFACTURER AND SUPPLIER OF O-RING SEALS.

Designed to be used both as a replacement item and as an OE fitment part the new range is ideal for applications such as wheel hubs, axles and drive shafts. From the

"Pioneer Weston has combined two areas of ERIKS Group expertise to develop a new range of rotary seals for arduous applications."

Metal faced seals offer bearing protection and lubricant retention on any relatively slow moving rotary shaft, predominantly found in tracked vehicles such as earth movers, mobile cranes and large off-highway vehicles. The new range from Pioneer Weston was designed at the new dedicated UK sealing technology centre in Warrington, and assembled in the UK.

outset the new seal range offers a broad mix of standard sizes and dimensions to fit the widest range of applications; pairs of seals from 38mm ID to a huge 1.5m ID are already available with further special variations being added continuously as new applications are identified.



Taking a bearing on vibratory screens

NSK's new integrated bearing assembly units have been designed specifically for manufacturers and repairers of vibrating screens. The screen units are designed by NSK to meet manufacturer's requirements. They integrate high strength housings, vibratory-specification bearings, seals, bolts and washers, into bespoke assemblies that are pre-greased and ready to install. This reduces inventory, installation and warranty costs, and brings the security of a single source supply.

The screen units help to improve the competitiveness of screen manufacturers in a number of key ways. First, all of

the design work and unit assembly is undertaken by NSK, reducing in-house design, and purchasing and stockholding costs. Second, the screen manufacturer does not have to undertake in-house sub-assembly, and final assembly time on the machine is reduced substantially. Third, installation does not require a separate 'Clean' bearing assembly area, or in-house heating equipment for fitting bearings into housings.

The bespoke bearing assemblies comprise SG iron high strength housings, integrating CAM-VS vibratory specification bearings, labyrinth and contact seals, to deny the



ingress of contaminants. The assemblies are pre-greased and ready to fit, with bearing location features and provision for re-greasing. The series of spherical roller bearings used are designed specifically to provide improved bearing life under severe operating conditions, and can reduce levels of both vibration and noise by 50–60%.

Solenoid valves for a tight spot

Norgren has unveiled its FAS series of 10 and 15mm miniature solenoid valves for applications where space is tight. The new series of 10 and 15mm miniature solenoid valves

They are available for piloting and motion control projects, through to arduous and demanding fluid and gas control applications. Designated as Picosol (10mm) and Microsol (15mm), these Swiss engineered valves are reliable, durable and proven in various applications such as piloting, water quality monitoring,

printing, sanitation, medical, packaging and automation.

For use with different mediums, the valves can also be used with aggressive gases and liquids. They have a high performance to size ratio and can address difficult pressure requirements. Both valves have high flow rates with the Picosol capable of delivering 32 l/min and the Microsol 194 l/min. The low power consumption reduces energy costs and both models have a life span of more than 100 million cycles.

Eaton valves provide relief when the pressure is on



Eaton has introduced a range of Vickers direct-acting, poppet-style relief valves, suitable for safety circuits and industrial applications that typically have high duty cycles.

The valves provide a compact and cost-effective solution for handling high pressure and flow requirements in tough engineering and general environment applications. The Vickers valves offer rated pressures adjustable from 25bar to 400bar, with flow rates up to 350 l/min. The valves are available in cartridge, sub-plate and inline mounting styles in sizes 6, 8, 10, 12, 16, 20, 25 and 30. Each valve principally comprises a sleeve, a spring and a poppet with an adjustable damping spool. The setting of the spring pressure is variable via an adjustment element.

Free football gear – with ERIKS Tools+Maintenance...

The PredictorPro World Cup football competition is being sponsored by ERIKS Tools + Maintenance, a range of over 25,000 products containing items ranging from lasers to socket sets, the tools range also provides an access point to a huge range of maintenance services designed to improve productivity.

So if you fancy your chances at winning some of the top prizes on offer for predicting results during this World

Cup competition, you can log-on at <http://ipe.predictorpro.com/> and start to predict the results.

If you don't win one of the large TVs or other prizes on offer you can always claim free home nations football shirts, balls and sports bags when you purchase special offer products such as AEG heavy duty cordless drills, and hammer drills, order some new tools now from ERIKS, and get on with some work – and a game of football!