



WHAT WAS ROLLING AT THE **HANNOVER MESSE** 2015?

6,500 companies from 70 countries have showcased technologies for tomorrow's production plants and energy systems. More than 220,000 trade visitors – 70,000 of whom came from outside Germany – used HANNOVER MESSE to catch up on the latest technologies and made key investment decisions.

The Bearing Industry @ Hannover 2015

1359 different bearing industry related products and services were displayed by 426 companies in Halls 5, 6, 21, 22, 24, 25, 16 & 17. Hall 22 was the main Hall for bearings overwhelmed by the gigantic booths of Schaeffler and SKF. The high presence of Chinese bearing manufacturers were remarkable and confirmed by many attendees.

For the first time in the Hannover Messe history it was clearly to see the high amount of partnerships and synchronization between European and Asian bearing distributors / manufacturers and further localization of common bearing brands. The evidence that the mentality of the industry is changing rapidly from 'Where is it produced?' into 'How is it produced?'

The present companies could be divided generally into four groups. The common bearing producers, the special and customized bearing producers, producers who provide application related solutions and distributors. The sector is clearly in a period of major challenges and undergoes a dynamic change. The impacts of the further industrial globalization, the upcoming 'Industry 4.0' and the 'Internet of Things (IoT)' started clearly changing the landscape of the bearing industry.

The gap between the common bearing producers and the customized solutions based producers is becoming bigger at fast speed.

What will we see @ Hannover 2017?

The current dynamics of the industry will probably move the above mentioned four groups of bearing companies in more than four different directions. Some of the

producers will keep their production at the same range and quality level, while others shall try to expertise in certain types at higher quality level.



Mr. Tom Hamlett & Mr. Paul Cuthill from GODIVA BEARINGS, The two SUPERHEROES at HannoverMesse

There is an expectation that more and more common bearing producers will jump in the sea of industrial reliability by providing new products and services along with the bearings they produce. The bearing distributors will play the key role here for small and mid-size bearing producers for achieving this goal.

The producers who follow the path of 'industry 4.0' and 'internet of Things (IoT)' will be probably more deeper in space...

Enjoy this BearingNEWS special edition newsletter!

Kenan M. Özcan

SCHAEFFLER

at the Hannover Messe 2015

Performance, efficiency, intelligence - rolling bearings are at the heart of new trends in technology and products

The global megatrends of mobility and „Industrie 4.0“ as well as the associated further development of rolling bearings, plain bearings and linear guidance systems in terms of loading, operating life and power density are the main features of Schaeffler AG's Industrial division's presence at the Hannover Messe 2015. In addition to the perennial themes of increasing performance, economy and energy efficiency, the subjects of sensors, actuators and networking as well as continuous condition monitoring are key focus points in product development. "The drive components with integrated sensor technology and smart actuators we are presenting in Hannover are a prerequisite for networking machinery and plant as well as for the control of autonomous processes in our customers' value added chain," according to Robert Schullan, member of the Executive Board at Schaeffler AG and President of Schaeffler Industrial.

Mobility for Tomorrow

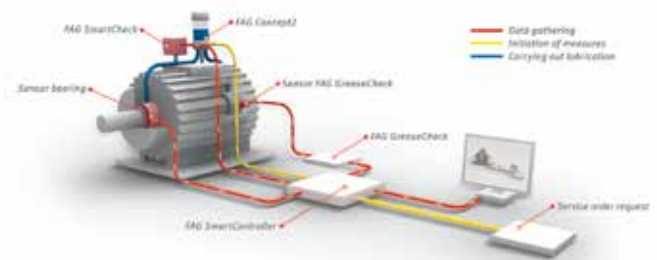


Environmentally friendly drives, urban and inter-urban mobility and the broad subject of energy are the specific focus points of Schaeffler's "Mobility for Tomorrow" strategy. As development partner and global supplier to the automotive and industrial sectors, Schaeffler has a detailed knowledge of drive train systems in both vehicles and industrial applications. Schaeffler's

strength lies in its breadth of knowledge which covers not only the automotive sector but all other types of urban and interurban mobility such as two-wheeled transport, rail and aviation.

„Industrie 4.0“

The „Industrie 4.0“ initiative places particular emphasis on networking components, machinery and production



systems by using IT systems which are either top-down or integrated into machines. A prerequisite for this is components which can identify and transmit condition-based information. Rolling bearings have a decisive role to play here as they are responsible for guidance and positioning as well as supporting process forces and movements.

Integrated torque measurement units for maximum precision and efficiency

A highlight from Schaeffler is the new magnetoelastic FAG torque measurement unit. This mechatronic solution from Schaeffler provides significantly more accurate monitoring and control of applications and processes. By offering solutions for bearings and subsystem, Schaeffler is able to provide the torque





measurement unit as a ready-to-fit solution, matched to the specific application.

Smart actuators: Innovative screw drives for electromagnetic linear actuators



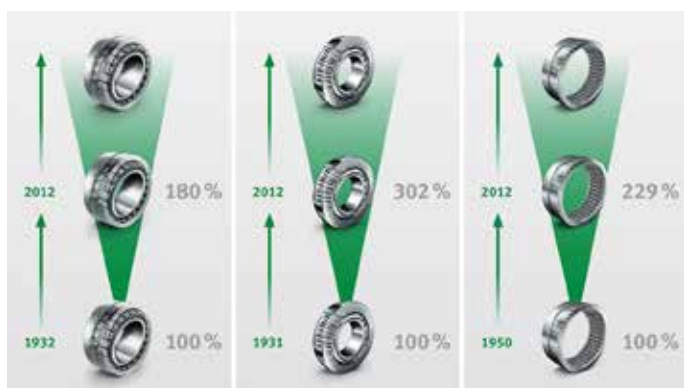
Schaeffler is presented a new design and new operating principle to expand its range of spindles by introducing a screw drive with particularly high load carrying capacity and power density. The PWG planetary screw drive is paving the way towards “smart actuators”: extremely high efficiency electromagnetic linear actuators with minimum space requirement.

Measurably better with X-life

Considerable potential for increased functionality, economy and reliability in industrial applications is being released thanks to continuous development of rolling bearings, plain bearings and linear guidance systems. X-life is the seal of quality used by Schaeffler for products which have a considerably longer rating and operating life due to their increased basic dynamic load ratings in applications where the load and design envelope are identical.



New bearing design - toroidal roller bearing



FAG-TORB in X-life quality

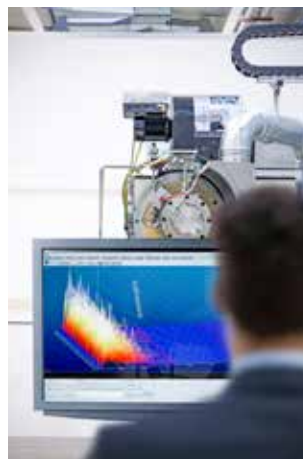
Schaeffler is presenting a new bearing design at the



2015 Hannover Messe with its FAG TORB toroidal roller bearing. This is a roller bearing with angular adjustment in X-life quality. It combines the angular adjustment capabilities of a spherical roller bearing with the axial displacement of a cylindrical or needle roller bearing.

Solutions for preventing white etching cracks

Schaeffler is presenting a comprehensive range of



solutions at the Hannover Messe to increase resistance in bearings to white etching cracks and to prevent premature bearing failure. White etching cracks are structural changes in the material that form below the surface of the bearing. Under the influence of external loads, this can lead to premature failure of the bearing in question. This can affect bearings in wind turbines as well as in many other industrial applications. To achieve efficient and economical reduction in white etching crack damage, Schaeffler recommends a statistically proven technical solution of through-hardened bearings combined with black-oxide coating of the outer rings, inner rings and rolling elements using the coating system Durotect B.

For the complete press kit of all our press releases for the 2015 Hannover Messe, go to: http://www.schaeffler.de/content.schaeffler.de/de/press/presskits/press_kit_hmi/press_kit_hmi

NN, Inc. Debuts as Exhibitor at 2015 Hannover Messe

NN, Inc., a diversified industrial manufacturer of precision metal bearing components, industrial plastic and rubber products, and precision metal components, debuted as an exhibitor at the 2015 Hannover Messe

NN's Metal Bearing Components Group was located in the Motion, Drive and Automation (MDA) hall and showcased some of the company's latest innovations, including precision balls and rollers, stamped metal parts, and a breakthrough new welded cage. NN gave visitors a chance to better understand the technology, engineering, and process advancements that are needed

to produce a world-class bearing. Senior Vice President of the Metal Bearing Components Group, Jeff Manzagol said, "The Hannover Messe was a great opportunity for NN to show the world that we are committed

to creating ever-increasing value for our customers. With dedicated resources, we continue to supply the bearing industry with the highest quality and highest precision components."

NN's Autocam Precision Components Group, which manufactures precision metal components, also made its initial debut at the Hannover Messe in the Industrial Supply hall.

Headquartered in the U.S., NN has 4,200 employees and 25 manufacturing facilities in North America, South America, Europe, and Asia. For more information, visit www.nninc.com.



Photo: Members from NN Global Sales Team, Purchasing, and R&D

Carter @ The Hannover Motion, Drives and Controls exhibition



Carter Manufacturing Limited was in attendance at the show for the 3rd time located in the main bearing Hall 22, stand B32-1. Show visitors were interested by the comprehensive range of specialist bearing products on show at the Carter Manufacturing Stand. The products generated an unprecedented level of enquiries and enthusiasm, especially the newer technologies such as the large Silverthin 40" Super Precision Thin Section Bearing on display at the front of the stand.

Carter Manufacturing Limited is reflecting on a highly successful show with a booking already securing the stand for the next show in 2017. We would like to extend a warm thanks to all our customers and prospective customers that took the time to stop and visit us during the show.

You can find more information about the other products which were displayed during the show on www.carterbearings.co.uk

"PROSINO, The Ring Specialist"



PROSINO S.r.l. is an Italian company highly specialized in the turning & heat treating of steel rings for super precision bearings and custom made bearings

PROSINO S.r.l. has successfully presented their products in Hall 24 and enjoyed a very good response from visitors (OEM's and end-users).

Dimensional range of the rings: from 8 mm of bore up to 300 mm of OD.

Main focus of the company is:

- High quality raw material source
- Complete traceability of production steps
- Heat treatment
- Geometrical and dimensional accuracy
- Flexible production facility

Contact: Dr. Pietro PROSINO - pprosino@prosino.com - Mob: +39 335 8361291

JESA participated for the second time at Hannover Messe!

For the second time, JESA Bearing Solutions displayed their future technology, innovations and solutions at the Hannover Fair in Germany. The JESA booth was situated in the dedicated bearing producer hall where JESA presented its customized bearing solutions in combination with overmolded polymers as well as their very successful high performance guide wheels range. "We were approached by a very large number of distributors interested in promoting our new LRG rollers on their market" said Marcel Dubey, Sales & Marketing Director at JESA.



The exhibition not only creates many promising contacts but also offers existing JESA customers the chance to preview, the latest in innovation and materials, such as the JESA new high performance stainless steel "Steenox".

If you want to see what went on during the event, please visit the JESA photo gallery and the JESA Youtube channel.

Visit JESA website www.jesa.com for more information.

Gallery photo : www.flickr.com/photos/jesaspinningsolutions/

Youtube Channel : www.youtube.com/user/Spinningsolutions



NKE has participated in the Hannover Fair for the 8th time

NKE Austria GmbH has participated in the Hannover Fair for the 8th time. The bearing manufacturer showed high profile at the leading trade fair Motion, Drive & Automation 2015 (MDA) in Hall 22 with a 100 square-metre stand.

In attending the world's biggest industrial fair, the company showcased its new bearings solutions for different industrial applications, especially from the segments of agricultural machinery, electrical motors and general machinery. "Our aim is to develop new solutions together with our OEM customers, and to find new ways of cooperation with our distributors", explains Harald Zerobin, NKE's technical Managing Director. "Customers want to have alternative bearing solutions in order to increase efficiency and reduce costs", adds Heimo Ebner, NKE's commercial Managing Director. "Through the trade show, we would like to improve our market position in different industrial segments."

NKE produces standard and special bearings for all industrial applications. Engineering, product development, production and final processing of components, modular assembly, quality assurance, logistics, sales and marketing are centralised at NKE's headquarters in Steyr, Austria. A wide range of standard bearings is available from stock or at short production lead-times. NKE also provides tailored products and solutions. NKE's products are distributed through 15 international representative offices and more than 240 distribution outlets in 60 countries.

Visit www.nke.at for more information about NKE products

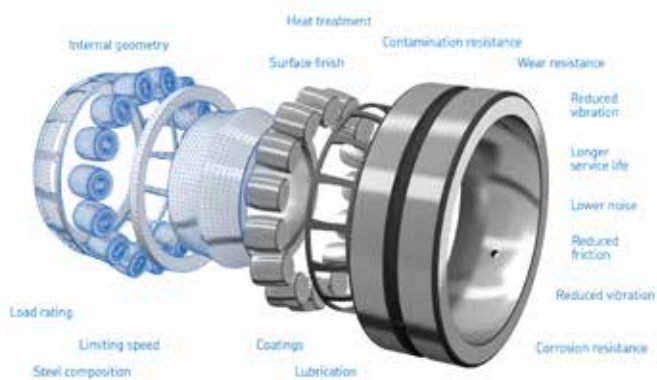
SKF outlines how to Power the

SKF has been presenting a selection of its leading products and innovations as well as an innovative technical discovery at Hannover Messe 2015.

The company has been developing advanced solutions to customers operating across industry since 1907. The company utilizes its vast experience and industry insight to continuously produce new technologies, which deliver competitive advantages to customers, such as improved productivity and sustainability.

SKF launches innovative new bearing rating life model

SKF has launched the SKF Generalized Bearing Life Model, a pioneering new bearing rating life model that is specifically designed to help engineers predict bearing life with greater levels of accuracy than ever before. The new model is a major step forward for the industry, and will play a vital role in enabling OEMs and end users to match bearings and application conditions with even greater certainty, resulting in improved machine life and reduced operating costs.



SKF EnCompass Field Performance Programme helps to meet real-world application conditions. The SKF Generalized Bearing Life Model takes both surface and sub-surface failure modes into consideration.

Developed as part of the SKF EnCompass Field Performance Programme, the new bearing rating life model will enable original equipment designers and end users to more closely match bearings to actual application conditions, therefore further optimising bearing performance.

Power the future with SKF's new report

In partnership with industrial technology experts and academics from all over the world, SKF have released a new thought leadership report focusing on the future of

manufacturing and engineering. The document, entitled 'Power the Future', features contributions by specialists from within SKF and leading external authorities. It focuses on current and emerging trends in engineering technology and processes, and outlines how the factory, machinery and the workforce will evolve in the near future.

'Power the Future' will enable engineers and students to develop a greater knowledge of the main areas of interest that are predicted to become increasingly prevalent to future technology developments in a variety of key global industrial segments.

The Power the Future report can be downloaded for free from www.skfpowerthefuture.com.

Launched at Hannover: SKF smart innovations boost mobility and connectivity

At Hannover, SKF has launched a variety of new product innovations that boost mobility and connectivity in industrial applications.

SKF Enlight

SKF Enlight is a package that combines a powerful new mobile app with a special Bluetooth-enabled sensor. It allows non-expert staff to gather expert data such as vibration and temperature information, using standard mobile devices on demand.

The package features three main elements: a mobile app entitled Data Collect, which turns a standard mobile device such as a smartphone or tablet into a data collection device; the SKF Wireless Machine Condition Detector (WMCD), which is a special sensor that measures vibration and temperature data – and relays it to Data Collect via Bluetooth; and – if appropriate – ruggedized Atex Zone 1-compliant tablets and smartphones, if users need to collect data in hazardous areas such as oil & gas, refining, chemicals and pharmaceuticals.



The Future at Hannover

TKSA 51



The TKSA 51 is a new SKF shaft alignment tool, which prevents shaft misalignment. Easy to use, the TKSA 51 is the first instrument designed for intuitive shaft alignments using tablets and smartphones. The app makes it quick and easy to set up of motors, drives, fans, gearboxes, pulleys and couplings, even by first time users. It comprises two compact and lightweight laser measuring units, designed to suit almost any application. Using the versatile shaft brackets, the instrument can be mounted on small machines with limited space, whilst extension chains, rods and magnetic holders are supplied for mounting the tool on large machines.

SKF Insight



SKF Insight monitors dynamic parameters such as vibration, temperature, lubrication condition and load, and informs the user when conditions are abnormal and can threaten to cause bearing damage. When it was launched, at Hannover 2013, SKF Insight was a technology concept – a way in which maintenance engineers might improve condition monitoring by keeping tabs on bearing health. Two years on, it is a fully functioning solution running in customer pilots, capable of supplying data directly to diagnostic centers for better condition monitoring via the SKF Cloud using SKF @ptitude

SKF showcased a selection of technology innovations at Hannover 2015

Visitors to Hannover Messe 2015 would also get a glimpse of a selection of SKF's other innovations, designed for use in a variety of industries, including Oil & Gas, Automotive and many more.

Top Drive exhibit



The top drive exhibit showcased a range of SKF advanced solutions that are helping to improve the operational reliability of critical top drive systems in the oil and gas sector. This includes bearings, seals, lubrication and condition monitoring products.

Sliding Door Damper exhibit

The Sliding Door Damper (SDD) incorporates two gas springs and an oil damper, ensuring that doors up to 400kg in weight can quickly be brought to a soft, safe final position – almost no matter how hard they are closed. As well as acting as a brake, the SDD also positions the door in its closed position and is ideal for use in a range of sliding door structures, such as barn doors, room partitions and French windows.



For further information, please contact:

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BMI Participated in Hannover Messe 2015

Bearing Manufacturing India participated in the Hannover Messe 2015 from 13th - 17th April 2015. The company received a good response from the variety of products displayed.

In synchro with the partner country for the Hannover Messe and the "MAKE IN INDIA" campaign the company showcased a vast variety of solutions for agriculture machinery steel plants, gear boxes general machinery and several other industries BMI is developing a wide variety of solutions for customers in 45 countries.

Our aim is to expand distribution partners to increase our reach to OEM and MRO customers. With global recession customers are looking for alternate solution to reduce cost but not compromise on quality as well.



"Through trade shows BMI would like to showcase the technical capability of BMI engineering team in developing special, non standard and customized solution for OEM and MRO customers in smaller quantity as well" explains Mr. Snehal Sheth Managing Director of Bearing Manufacturing India.

More than 100 customers and prospects from 18 countries visited the BMI booth to discuss about existing and potential business opportunities to grow business further.

BMI manufactures standard and special bearings for all industrial applications. The company has an entire team of engineers working on new product development and engineering for special / customized solution for customers. Around 300 standard sizes are available from stock or quick lead times from India.

Visit www.bmibearings.com for more information

Groundbreaking new solutions presented by Prüftechnik



At the Hanover Fair 2015 PRUFTECHNIK again presented groundbreaking new solutions in the area of shaft alignment and condition monitoring.

Solutions by PRUFTECHNIK contribute to increasing machine service life and to reduce wear and repairs on bearings, seals, couplings, shafts and parts.

Other benefits include lower power consumption and higher production quality.

Discover PRUFTECHNIK's latest innovations for Vertical shaft alignment, Cardan shaft alignment and Machine status on tablets and smart phones on www.pruftechnik.com

ATS Electro-Lube for your application



ATS Electro-Lube have always looked forward to the Hannover Messe event. This year we attended with even more excitement as ATS announced

the launch of it's European distribution centre.

ATS specialise in the manufacturing of automatic lubricators, supplying innovative single point and multi-point lubrication solutions to a wide range of industries. Our electro-chemical and electro-mechanical units can adapt to a variety of environments, from extreme temperatures to under water, making them the most versatile lubers available.

With demand for our automatic lubricators growing across Europe, our new distribution centre will quickly and efficiently service the continent with our market leading products. While at Hannover, the support for our lubricators was overwhelming. We were able to establish strong ties with distributors across several European countries, and we are incredibly excited to watch these partnerships flourish as ATS expands it's global reach.

Visit www.atselectrolube.eu for more information.

KG[®] International was there too...

47 years ago, a dream led to what is today a Movement; a movement called KG International that is going strong based on the beliefs, principals and ethics of the founding Chairman Mr. Kedar Gupta.



(Team KGI, L to R – Hamidreza Zehtabchi – Iran, Istvan Klimon – EBT Hungary, Franco Lagna – Italy, Tozser Sandor – EBT Hungary, Rohit Gupta – CEO KGI, Maurizio Marani – Italy, Barbara Prampaloni – Italy, Jaspreet Reen – Dubai)

The tiny acorn that germinated from an idea, a potential foreseen, is today a mighty oak in the shape of KG International of Jebel Ali Free Zone, Dubai. Sprawling over 55 countries in

5 continents, with a team size of over 100, a portfolio of over 4,000 varieties, a relationship with principals

that goes back over 20 years; KGI believes in forging relationships that last. It is today one of the foremost & most respected bearing businesses in the world. The mantra till date remains commitment, quality, ethical business dealing.

It has taken passion, determination, steely resolve and belief to create this reality in less than 30 years; skeptics believed it could not be done, but the passion, the dedication and a firm faith have helped make KGI a company favoured the world over for its quality, reliability, customer centricity and range on offer.

KGI participated at the Hannover Messe and is pleased to admit that it was a wise decision which shall be repeated for the future editions too. The potentiality of the business that is generated was palpable in the number of visits received, the quality of enquiries received, the expectations of the visitors and the exhibitors alike and the general hum one felt in the air.

EPTDA Pavillion at Hannover 2015 was a success! Looking forward to Barcelona.

Through its formal alliance with Associate Member Deutsche Messe, EPTDA keeps on generating tangible member benefits to help member companies increase their international exposure and access to a network of market players from across the globe.

The EPTDA/PTDA pavilion members (**Gates, Godiva Bearings, KB Electronics Inc., NB Europe, RBC Bearings, Sedis, Uiker, Contra Praha, Belden, Fallbrook, Shanti Gears, Mondial, Tsubaki, Bervina, Esco Couplings**) had the opportunity to have a central presence at this leading show, while still maintaining their individual company identity.

EPTDA hosted a Reception at its Pavilion - giving a chance for its members, its partners and colleague exhibitors and visitors to network, share ideas and relax over a glass of wine and something to nibble. The EPTDA Welcome Reception was organized with the support of ConeMount Bearing Heaters.

EPTDA has currently opened registrations for its Annual Convention taking place this year on the 23-25th of September in Barcelona! The high-level executive event of the year is also promising to be a great success!

Visit www.eptdaconvention.org for more information

ZEN at the Hannover Fair a short review



Some weeks has passed since Hannover Messe 2015. Our booth in hall 22 has been dismantled and stored, we were overwhelmed by the feedback the ZEN group got from you, our visitors.

In the various and interesting conversations we had with our customers and even with our competitors, it will be very interesting to try to find the answers to the challenges that lie ahead.

Have the improvements in our standard product range been enough?

Will our new high end ceramic product ranges and stainless steel special bearings be accepted as successful as our other products?

Will the trend for higher quality go on?

What will the market require in the future?

In the relaxed atmosphere at the ZEN hospitality bar we were happy to listen to customer suggestions to improve the service and make ZEN more efficient to you.

Therefore we like to thank all of you for the constructive conversations we had and we look forward to seeing you again at the ZEN bar in 2016.

www.zen.biz

At the Hannover Messe, the specialist for plastics in motion introduces its new service for tribo parts



3D printing service enables fast delivery of tribo-plastic prototypes

Those who need prototypes or special plain bearings in the future will be able to get even faster solutions supplied by igus. A year ago at the Hannover Messe the expert for motion plastics and high-performance plastics for moving applications, presented the world's first tribo-filament for 3D printers. Now igus has expanded its range of offers and will now provide a 3D printing service to its customers by delivering special parts even faster and at very affordable prices.



Complex components such as worm gears can be implemented with 3D printing service in a very short time. Thereby they are up to 50 times more abrasion-resistant than comparable components manufactured in the 3D printing

From the Hannover Messe onwards, igus will offer a 3D printing service with the in-house tribo-filament and will take over the complete production of special parts. "Our customers can contact us with their 3D data and get their parts quickly and easily printed by

us," says Tom Krause, Product Manager at igus iglidur® tribo-filament. "This is what we have been occasionally carrying out in recent months and now want to offer this service to all our customers." igus has expanded its potentials with the tribo-filament, which is 50 times more abrasion resistant than conventional 3D printing materials and delivers even more unusual geometries quickly and easily. The delivery times for printed parts are mainly dependent on the complexity of the components. 'From 24 hours' is a statement that is also true for these igus products

Calculate prices and order online

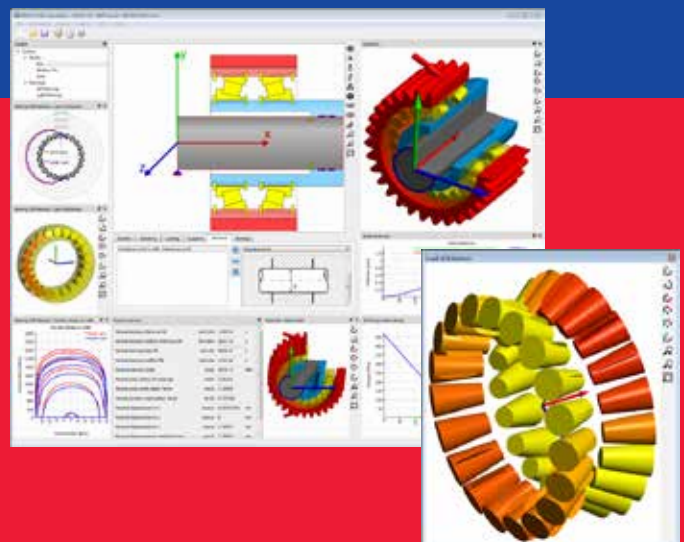
The service for customers is made as simple as possible up to the finished component. The data can be uploaded on the igus website and the components ordered. The prices are also determined automatically online, and similar to the indication of the delivery time, the price also depends on the complexity and the structure of the component.

Visit www.igus.de/de/presse for more information.

MESYS presents new version of shaft and rolling bearing analysis software

MESYS AG presented its new version 04/2015 of shaft and rolling bearing analysis software. New features in bearings analysis are: support for axial and double row radial tapered roller bearings, input of deformations of bearing rings and a statistical parameter variation. New features for shaft calculations are: The parameter variation was added, position of forces can be varied in load spectra, a pulley is available as load element and hydrodynamic journal bearings are available as supports. As new calculation module a calculation for ball screws was presented.

Visit www.mesys.ch for more information.



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ELGETI ENGINEERING GMBH PRESENTS BEARING ENDURANCE TEST RIG ELPAX-310 ON HANNOVER MESSE

From April, 13th to 17th, Elgeti Engineering GmbH exposed two test rigs on Hannover Messe, one of the world's most important industrial exhibitions. One of the exhibits is a bearing endurance test rig type EELPAX-310 which is suitable for lifetime testing of e. g. tapered roller bearings, spherical roller bearings and any kind of thrust bearings up to 310 mm outer diameter.

This testing machine comprises two test stations on one single frame by which four test bearing can be examined simultaneously. The software allows the operator to define time-dependent testing parameters which are



speed, axial load, temperature and oil flow rate. In this context, it has to be mentioned that there are two completely independent oil circuits which do not only avoid any interference between both test stations but

also allow testing with different lubricants at the same time.

Typical applications of this test rig are verification of products, materials, production processes etc. For such purposes, Elgeti Engineering GmbH delivers such products to especially bearing producers. Apart from that, they operate several test rigs at their own facilities in Aachen, Germany for independent

product evaluation and benchmarking.

Visit www.elgeti-engineering.de for more information.

ZVL AUTO Hannover Review

ZVL AUTO use to exhibit at the Hanover exhibition every two years since 2003, and is very pleased to be able to meet almost all their customers at one place. The Hanover exhibition is a good chance to find new opportunities and possibilities for establish cooperation with new companies. Meeting people from all around the world is pleasant and inspiring for the ZVL AUTO team.



The company is producing tapered roller

bearings since 1959 in Presov Slovakia. The production range includes at present tapered roller bearings in metric and inch sizes with inner diameter from 15 mm – 190 mm and outer diameter from 30 mm - 300mm. More than 10% of their bearings are with special design.

56 years of bearings production in ZVL AUTO is half a century of tradition, experiences, quality and confidence for the future.

You can find more information about ZVL AUTO on www.zvlauto.sk

MDA 2015 – ISB AFTER SHOW REPORT

ISB opens the exhibition season in 2015 taking part in the “Motion Drive and Automation”, held at the Hannover Messe - one of the most renowned exhibition sites in Germany – from April 13 to 17 year 2015.

With special attention to the issues of energy efficiency, reduction of consumption, urbanization and sustainable mobility, MDA 2015 represented for ISB the right place to confirm its presence among “The greats” of bearings and components industry. As always, it was also a great opportunity to lay the foundations for new and profitable business relations. In particular, there have been



many contacts from Eastern Europe, parts of the Mediterranean, North Africa, Middle East and India.

With a stand of over 100 square meters and innovative graphics than ever before, the “green mark” appears alongside the great leaders of the market, against which is an excellent alternative in terms of price and quality.

This has been the sixth participation of the Italian brand to the German exhibition, the proof that ISB keeps investing resources for the internationalization and continuous growth both of the brand and the company.

See you at Agritechnica,

Visit www.italcuscineti.it more information.



NTN-SNR OFFERS A BEAUTIFUL SHOWCASE FOR INNOVATION AT THE HANOVER MESSE 2015

NTN-SNR hosted several thousand visitors on the stand, set up from 13th to 17th April, at the Hanover trade show: an area of 370 m² entirely dedicated to innovations, expertise and strategy of the third largest bearings manufacturer in the world.

Professionals could discover here all the ranges - standard and technical - of the NTN and SNR brands on the six centres dedicated to the five markets covered by the Group in the industry. NTN-SNR thus presented the references that it develops in:

- construction and agriculture;
- steel industry;
- mines-quarries and cement plants;
- robotics and machine tools;
- railway;
- and wind energy.

Innovation is featured at each division, with a special mention for new mechatronics and monitoring solutions of NTN-SNR.

A seventh centre is devoted to the NTN-SNR sales label. Named ULTAGE, this label attests the added value of the range that is certified: increased service life, optimized maintenance costs, support throughout the life of the product, etc. ULTAGE, which integrates the product life cycle management process deployed by NTN-SNR, was the subject of a cycle of five conferences during the week: NTN-SNR experts provided answers about the method of selecting steel suppliers, quality of steel, heat treatment, bearing design and industrial and logistical efficiency of the Group.

Visit www.ntn-snr.fr for more information about the NTN products

Standard and special products of ZKL Group at Hannover Messe

The Czech manufacturer of bearings, ZKL Group, introduced both standard and also special bearings at Hannover Messe. Visitors could find among displayed exhibits e.g. sealed spherical roller bearings B22205.2RS and B22218.2RS which are mainly designed for applications, where there is a possibility of increased



humidity or impurity. The biggest added value of the sealed spherical roller bearings is that the service life can be 3 times longer.

Also other new bearings,

especially designed for the railway industry, were worth

seeing e.g. the slewing ball ring PLC 01-12-03 used in the joint of two carriages of city trams or the tapered roller bearings

PLC 82-09-01.4 which are protected against electric current with a ceramic coating applied on the outer ring.

The heaviest bearing at the ZKL stand with the weight 224 kg and outside diameter 720 mm was the large-size double row spherical roller bearing 230/500EW33MH with a one-piece brass massive cage. The main advantage of the double row spherical roller bearings is the transmission of high load and tilt, which compensate the shaft deflection. These bearings are often used in the mining or energetic industries.



Bega Special Tools introduced their BETEX 24 XLDi light weight portable heater @Hannover

Developed in-house, the device design is based on the 'Safety first' motto. It is particularly suitable for heating rotating parts such as bearings, gears and couplings, enabling a shrink-fit. Contrary to the relatively heavy, low frequency induction heaters commonly available on the market, this new BETEX® 24

XLDi induction heater weighs merely 7 kilograms.

The new model's substantial weight reduction was realized thanks to the application of medium frequency technology, which does not require

a massive U-shaped core in conjunction with heavy steel yokes. In order to guarantee a balanced heating performance, the substantially lighter coil in the new model has been combined with a specially developed electronic unit.

The fact that the device components do not need to be demagnetized upon use is another advantage of



medium-frequency technology. Moreover, the heater's deployment does not require any preparatory activities and its energy efficient design helps to save on electricity. Regarding bearings, their original lubrication is not affected by this heater. When compared to conventionally applied heating methods, such as the use of blow torches and baths of boiling hot oil, this induction heater is the superior device for a safer, cleaner and particularly more efficient heating process.

The BETEX® 24 XLDi induction heater is suitable for heating components ranging from steel cylindrical / ball bearings, with closed and open housings, to gears, couplings and rings, up to a maximum outer diameter of 180 mm in conjunction with temperatures of up to 150° C. Heating a component with the maximum size specification takes approximately 15 minutes.

As standard, this BETEX® 24 XLDi induction heater package comes with heat-resistant gloves inside a plastic case specifically designed for this purpose. Thanks to the mentioned induction heater, the lifespan of the rotating components in machines may be substantially extended, resulting in a lower Total Cost of Ownership.

Visit www.bega.nl for more information

MARINE MAINTENANCE WORLD EXPO 2015

29 SEPTEMBER - 1 OCTOBER, 2015 ANTWERP, BELGIUM



MARINE MAINTENANCE WORLD EXPO HEADS TO ANTWERP FOR 2015 EVENT

- International ship maintenance and repair exhibition moves to Antwerp for three-day exhibition
- New venue just minutes from Port of Antwerp
- Including renowned Marine Maintenance Conference with Ship Owners and Operators Forum
- 29 September to 1 October 2015; Antwerp, Belgium

Marine Maintenance World Expo is back for its third year, with the 2015 event moving to a new Antwerp venue, just minutes from the international port.

Less than an hour from Rotterdam, the Antwerp site will house Marine Maintenance World Expo along with the show's ever-popular conference, bringing together the ship repair industry's leading lights and newest technologies under one roof.

Still the only global event dedicated to keeping the world's fleets operational, Marine Maintenance World Expo is already set to be bigger than previous years, with over 100 exhibitors due to take part, showcasing the latest marine repair innovations to a unique audience of industry professionals.

Ship repair yard and dry dock owners and operators, fleet maintenance and technical managers, operations directors, managing directors, marine surveyors, ship owners and operators, and offshore platform and wind farm owners and operators from over 62 countries around the world attended the 2014 event, and organisers expect even bigger crowds in 2015.

The expo will also host the world's largest conference

exclusively for the ship maintenance and repair industry, with more than 60 leading industry speakers lined up to speak in two separate streams during the three-day event, focusing on the key issues affecting the industry.

New for the 2015 conference is a Ship Owners and Operators forum on the second day, designed for ship owners to meet and discuss ideas on various maintenance best practices, lifecycle extension strategies and ways to reduce operating costs and downtime, via more sophisticated maintenance techniques.

A Ship Repair Yard Owners and Operators forum will provide the focus for the third day of the conference, with ship repair yard and maintenance companies coming together to discuss new

technology and ways to operate a more efficient yard while reducing turnaround times and increasing profitability.

To register for your free official entry badge to Marine Maintenance World Expo, and to book your place at the event conference visit www.marinemaintenanceworldexpo.com

www.bearing-news.com

Bearing NEWS

BEARING INDUSTRY MAGAZINE

BEARINGS for MARINE APPLICATIONS!

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BearingNEWS September issue
will focus on bearing related issues in the Marine Industry
and shall be distributed into the Marine Industry worldwide.



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