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nextSENSE

nextNEWS

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Dear reader,

Our new Newsletter provides you with the breaking news on new products, facts worth knowing and solutions in the area of railway measurement technology.



Calipri Wheel – the all-rounder for 12 different applications

With just one measurement device, the innovative, non-contact Calipri Wheel, you can solve an entire range of measurement tasks. 12 different modules offer the chance to extend the service life of trains and rails in equal measure.

The one-of-a-kind module system of the Calipri Wheel turns it into an all-rounder that is usable in the following areas:

- Wheel profile
- Brake disc

compensating for any lopsidedness and twists of the measuring head.

Limited measurement range: One cannot measure the entire measured object, e.g. the wheel profile, from one measurement position. This problem was solved by having the measured object dynamically scanned by the sensor moved by hand. In the process, a great many measurements are made from various directions, with each measurement showing only one individual section from the entire measurement profile. The individual sections are selected with a special algorithm and combined in an overall profile. From the overall profile, the measurement parameters, e.g. the flange height of the wheel profile, are calculated by various calculation rules.

This patented method, developed by NextSense, is absolutely one-of-a-kind. Owing to its all-round applicability, a multitude of profiles can be measured, e.g. rails, but also gaps on car bodies.

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Deutsche Bahn concludes framework agreement with NextSense

In July 2011, NextSense and DB Deutsche Bahn AG concluded a framework agreement which now enables all DB companies (S-Bahn, long-distance rail traffic, service workshops, etc.) to procure the approved modules of the Calipri Wheel™ without any difficulty. Alongside the Wheel Profile measurement module, these also include the modules for the measurement of the brake disc, the wheel clearance, the wheel thickness and the wheel diameter. All measurements are conveniently carried out using one and the same device. The Calipri Wheel has already been able to record initial successful deployments on the Berlin S-Bahn and at a number of DB Regio workshops.

Both the measurement accuracy and various factors of influence were systematically collected and analyzed by the accredited calibration laboratory of DB in Chemnitz for the globally unique hand-held measurement device, which works in an entirely non-contact way. The Calipri Wheel delivers measured values that are significantly more reproducible in comparison to conventional measurement methods using contact - even in the confined space under the vehicle in a service workshop. The intelligent software of the measurement device reduces the influence of the user to a minimum—an essential requirement for the measurement of safety-relevant components in railway technology.

We, the NextSense team, look forward to being able to support DB AG with its further successes. We are confident that we will be able to sign similar contracts with other important companies in the railway industry in the very near future.

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International Meeting of the Sales Partners in Graz

NextSense—operating on the global market since 2008—has succeeded in a very short time in building up an extensive network of sales partners spanning virtually the entire world. The business model of NextSense is based on indirect sales by specialists who are very well networked in the railroad sector. As a complementary product in their portfolio, Calipri makes it possible for the sales partners to expand their service in the area of wheel set and infrastructure maintenance.

In the course of the launch of a number of new products, NextSense's international sales partners decided on a get-together in Graz. One special focus was on our Asian sales partners, who joined us only recently. Over the course of the two-day meeting, our partners were not only able to enlarge their know-how but used the opportunity to catch up on the latest developments and improvements of the

Calipri. Our partners enter the market optimally informed and well trained, thus expanding the distribution area of the Calipri, which is in use already today from New Zealand to Canada, from Sweden to South Africa.

Alongside the longstanding partnerships in Western Europe, Scandinavia, North America, India and Australia, sales partners in the following Asian countries could be gained: China, Japan, Singapore, Malaysia, Thailand, South Korea and Taiwan. We look forward to our joint collaboration.



NextSense - a brief introduction



NextSense is a high-tech company providing innovative solutions for the measurement and testing technology in the rapidly expanding market for optical sensors. We develop, produce and market mobile, laser-based profile-measuring devices as well as individual system solutions for customers from various sectors. In addition to numerous renowned companies in the railroad-traffic and railway supply sectors (DB, ÖBB, SBB, Siemens, Stadler, Bombardier, Alstom, etc.), our customer portfolio includes automotive and steel companies such as Daimler, VW, Magna-Steyr and voestalpine. Certified in accordance

with ISO-9001:2008, our company is a spin-off of the Austrian research organization Joanneum Research and currently employs 23 staff members at its site in Graz. In the picture on the left, you see our two CEOs, Franz Schiep and Clemens Gasser.

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