

TOM TOM-TOOLS INTEGRATES INFRARED MICRO SENSOR OF EXERGEN GLOBAL IN THEIR OVALITY TOOL FOR TEMPERATURE MEASUREMENT IN THE CEMENT INDUSTRY

Arni, Switzerland and ZIJTAART, the Netherlands, February 21, 2017 - Exergen Global, an award-winning thermal solutions provider, today announced that TomTom-Tools, a Swiss-based company that provides state of the art measurement tools for the cement industry, is employing Exergen's micro IRt/c-K as part of a customized solution to help its cement manufacturing customers maintain ideal operating temperatures and increase production.

Rotary kilns, used in cement manufacturing, must maintain a very specific temperature range to prevent damage to the refractory stones inside the kiln and to ensure optimal cement mixing temperature. TomTom-Tools selected Exergen's micro IRt/c-K for the task because the non-contact sensor employ Exergen's patented heat-balance technique to provide the industry's most accurate and reliable non-invasive temperature measurement.

TomTom-Tools engineers integrated the Exergen micro IRt/c-K into their Ovality Sensor, a one of a kind tool that is fixed to the exterior of the kiln and that helps extend refractory life by measuring stress in the kiln shell during operation. From outside the kiln, Exergen's sensor employs the heat balance technique to accurately detect the kiln's interior temperature, and both the Ovality Sensor (<http://tomtomtools.com/product/ovality-sensor/>) and the Exergen Sensor send measurements to a personal computer using a Bluetooth connection. The Exergen sensor solution employs a PID controller to continuously calculate the difference between the desired and measured interior temperature and takes corrective action to maintain the optimal setting.

"We were facing a tremendous technological challenge. But the use of the Exergen's infrared sensor dramatically helped to reduce refractory stone damage and significantly diminished replacement and maintenance costs. At the same time we were able to increase production time," said Mr. Thomas Rheinegger, CEO of Tom Tom-Tools.

About TomTom-Tools

TomTom-Tools GmbH is a Swiss-based company with experience in diverse, condition based monitoring measuring applications in heavy industries; mainly cement. For many years, mechanical root causes of failures were not well understood. Thorough measurements could only be conducted when the equipment was down, which in many applications rarely happens. Therefore the company has developed several, high precision measurement systems, which will result in to superior condition based monitoring and planned maintenance activities. Thus, failures can be significantly reduced in frequency and severity. For more information please visit www.tomtom-tools.com.

About Exergen and Exergen Global (now known as CleverIR):

Exergen Corporation, the global leader in industrial and medical non-invasive temperature technology, provides non-invasive temperature measurement devices providing lower cost, higher accuracy, less invasiveness, and greater reliability than ever previously possible. Exergen is well known for its award-winning temporal artery thermometer in the healthcare and consumer market. The company was founded by Harvard-research scientist Dr. Francesco Pompei who holds over 70 patents. Exergen Corporation is based in Watertown, Massachusetts, U.S. Exergen Global is the worldwide solutions provider of Exergen Corporation's industrial non-contact infrared temperature sensor solutions and the recipient of the 2015 Global Frost & Sullivan Entrepreneurial Company of the Year Award (<http://bit.ly/2pYfsy4>). For more information, visit: www.exergenglobal.com.

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