

# SPM *update*

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## Dear SPM user,

The reception of the new SPM®HD method introduced in 2010 has been beyond expectations. Installations of the Intellinova system with SPM®HD have been made in various industries and also tests have started on a number of specific applications, never before measured on because of limitations in the scope of available measuring techniques.

Many of the plant stoppers in process industry are low rpm applications with varying degrees of disturbances from the process, causing vibration and mechanical shocks. Tests are now being conducted on low speed gearboxes, press rolls, conveyor belts, wind turbines, thrusters, traction winches and more.

As we gain experience from these tests, more case stories will become available during 2011. You may have already read about the successful SPM HD measurements on wire presses for pulp production at Holmen Paper Hallstavik, SCA Ortviken Papermill and Smurfit Kappa in Sweden. Many more SPM HD installations are under way in various corners of the world, and we look forward to extending its area of application even further.

SPM HD truly is a breakthrough in condition monitoring of low rpm applications, making it possible to incorporate the majority of plant machinery in your predictive maintenance program.

Best regards,

Anders Sundberg

Business Development Manager

Since the summer of 2010, Ortviken paper mill outside Sundsvall, Sweden, uses the SPM®HD measuring technique from SPM Instrument to measure bearing condition on four twin wire presses.

## SPM®HD cuts maintenance costs at SCA Ortviken paper mill

Ortviken paper mill, owned by SCA and located on the Gulf of Bothnia coast in Sweden, produces coated publication papers, LWC and newsprint on four paper machines. The raw material is fresh spruce pulpwood, mainly from SCA's own forests in northern Sweden. The production capacity is 850.000 tons of paper.

For Ortviken, SPM HD is the solution to years of problems with bearing related breakdowns on low RPM machinery like the twin wire presses, which are used for dewatering of the pulp. None of the monitoring systems installed in the mill provided a dependable method for detection of bearing wear and damage, and bearing replacements therefore

were carried out in conjunction with timebased maintenance. The lack of reliable bearing condition information often lead to the dismantling of the wrong bearings, in turn causing breakdowns on other bearings in worse condition. The relatively expansive bearing damages made dismantling difficult and in some cases the shaft would also be damaged. Lengthy and unplanned production stops and consequential damages requiring repair all induced significant additional costs.

Then in the summer of 2010, the Intellinova online system with SPM HD was installed on Ortviken's four twin wire presses. Following a short period of system calibration, six bearing damages have been suc-

cessfully identified to date. Four bearings have been replaced during planned stops and two more will be replaced in the near future. Examination of the replaced bearings have verified that SPM HD does indicate the correct type of bearing damage, and bearing replacement costs are now significantly reduced.

*Urban Lander*, maintenance manager at SCA Ortviken: "After a few months of bearing condition measurement with SPM HD, we conclude that it works completely and to our full satisfaction. We are now planning for the application of SPM HD on more low RPM machinery, and we can recommend SPM HD to other users with bearing problems on such machinery."

### BMA Advanced Instrument in China opens new subsidiary

The SPM distributor in China, BMA Advanced Instrument Ltd., officially opened a new subsidiary, SPM Instrument Beijing Co Ltd., which will take over BMA's exclusive distributor rights in China.

Although not a part of SPM International, BMA Advanced Instrument Ltd. has a longstanding partnership with SPM and have supplied SPM products to Chinese customers since 2004. Vibration measurement is widely used in China, and shock pulse technology is increasingly gaining acceptance in the market. In accordance

with our Certified SPM Professional Guidelines, BMA Advanced Instrument Ltd. has proven their extensive knowledge of SPM technology, methods and products. Through their daily operations and marketing activities, they demonstrate an ambition to grow and continuously improve. The new subsidiary is proof of the BMA

commitment to the promotion of SPM brand recognition.

*Only distributors who meet our high quality standards may carry the SPM name. The "Certified SPM Professional" certificate is your guarantee that the distributor is a knowledgeable and trustworthy supplier of SPM condition monitoring products.*



# Condmaster® Nova

## New Condmaster® Nova version

Next to the SPM HD measuring technique, a new version of Condmaster was the most significant product release in 2010.

Condmaster® Nova 2010 contains a number of new functions, among which is the **Colored Spectrum Overview**, a brand new way of presenting historical spectrums and providing a graphical presentation of trends and patterns graphically, in the form of a three-dimensional view of all spectrums under a measuring point.

Further news in Condmaster include the **Condition Manager**, replacing the old Criteria Guide for alarm

configuration purposes, and the **Report Manager** which offers a number of standard reports on the contents of the Condmaster database.

Intellinova users may now also use **Machine Operating Conditions**, i.e. process parameters such as power, pressure or flow as criteria for assessing operating condition. Furthermore, Condmaster Nova 2010 has a new and simplified installation program.

**Tips  
& Tricks**

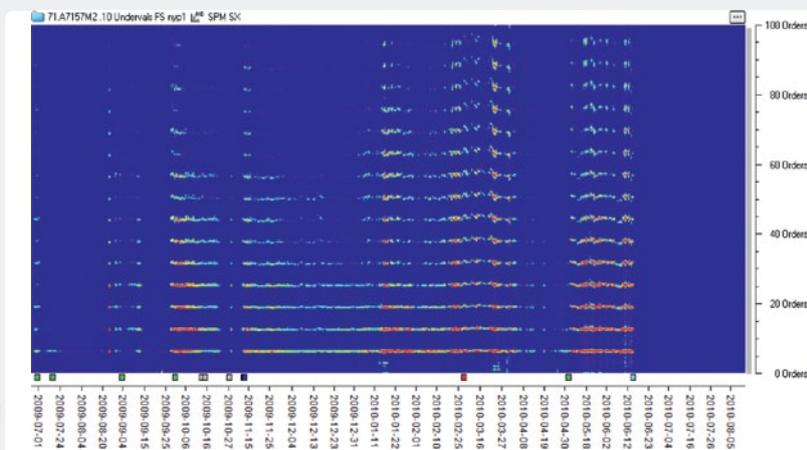
**Colored Spectrum Overview** enables you to use at multiple spectrums at once to identify patterns and trends indicating possible damage. The function is very useful and can be applied regardless of what measuring devices and measuring techniques you use.

The Colored Spectrum Overview shows multiple spectrums, sometimes thousands, over a longer period of time. It clearly distinguishes between signals which are always present in the machine and signals which are caused by developing damages. This function gives a very good overall picture of machine condition development. There is no need to predefine what symptoms should be highlighted, as the overview displays all symptoms by default. Spectrums can be viewed in orders, CPM or Hz.

To use the function, mark any number of measuring points in the Measuring point tree, then click the **Color Spectrum Overview** icon:  In the overview, you can toggle

between measuring points using the arrow button at top of the screen, or with Ctrl + <Down>. This way, you can efficiently scan lots of spectrums. One customer using the Colored Spectrum Overview function is Hallsta Papermill in

Sweden, where preventive maintenance engineer *Andreas Bjurman* says: *"Compared to analyzing individual spectrums, we get a much quicker view of the development of a bearing damage using Colored Spectrum Overview."*



# B



## SPM signs on with Italian Navy frigates

The Italian Navy implements a fully integrated Condition Based Maintenance (CBM) program with SPM online equipment for all critical machines on its new series of frigates.



The Intellinova online system monitors gas turbines, diesel generators, electric propulsion motors, desalinators and other important machinery on board six frigates. Vibration measurement and analysis is carried out for baseline recording and fine tuning of alert/alarm thresholds.

The online system communicates with the ship management system via OPC, all as part of the work to integrate various systems onboard in order to support the CBM strategy. The same input signals are used for machine protection, health assessment and maintenance planning.



## VibChecker also as EX approval

VibChecker is a light and compact-sized instrument for vibration measurement in the 10-1000 Hz frequency range. Measurement results are immediately and automatically evaluated against ISO standards.

Green - yellow - red LEDs indicate vibration severity and a real time FFT spectrum is produced for easy pattern recognition. Results can be stored for documentation and follow-up. With its built-in probe, easy button operation and clear symbols, VibChecker is an all set to go instrument; just point the probe and measure to locate vibration-related problems.



## Rolf Sjögren retires – Michel Tommasin new Customer support

Rolf's successor is Michel Tommasin, who ran his own business in consumer electronics for many years before joining SPM. Michel has a genuine interest in technology and has extensive experience in working with customer-related issues on a corporate level.

About his new job, Michel says: "I accept this challenge with great respect for our customer relations and the deep knowledge within SPM. I will do my best to ensure prompt and competent support also in the future."

Michel, who lives in Strängnäs, Sweden, is of Italian ancestry and speaks Swedish, English, Italian and Spanish.

### SPM Academy

SPM offers some of the world's most straightforward and efficient methods for condition monitoring on rotating machinery.

The SPM Academy provides the training that serves as an integrated part of the company's approach

to condition monitoring. The SPM Academy trains executives, supervisors, production personnel and maintenance personnel who are involved in different ways in mechanical condition monitoring. The objective is to enable you to

obtain the information that is critical to your production in plenty of time, so that you can avoid expensive production stoppages.

The SPM Academy offers standardized courses as well as customized training.



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