

Networking with the CMS: The 100%-carefree-package by BRANKAMP

All the way

There are three major factors that are important for modern manufacturing businesses to prevail in the more and more competitive market: Increasing the availability of machines, permanently safeguarding the optimal quality of parts, and preventing costly long-term breakdowns of machines after malfunctioning. This is one of the reasons why ProcessMonitoring systems such as the proven classic BRANKAMP CMS are becoming the indispensable standard in more and more businesses.

This is not just about the equipment of individual machines anymore. "The full potential of the ProcessMonitoring technology can of course only be reached if all of the machinery is equipped" according to Werner Ebeling, signatory at BANKAMP. The systems prevent process errors, support faster installation of the machines, and turn them off early in the case of malfunctions, which can avert or at least limit expensive damage. "This increases the availability of the manufacturing facilities. It increases the output and lowers production costs" as Ebeling summarizes the benefits.



Standard in modern manufacturing: CMS networking with FactoryNet

Particularly interesting: Large property insurers provide discounts on the insurance pre-

miums if the machines are equipped with BRANKAMP systems.

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A BRANKAMP C100 on an AG200 belonging to the Schütte company. The auto parts supplier Bosch produces injector bodies for fuel injection on the multiple drill.

The special issue

Efficiency, safety and mobility (part 2)

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News

BRANKAMP IN FINLAND

BRANKAMP has trained its Finnish representatives in sales and technology. The Finland team was brought up to date in February at Fastems in Tampere, the "Manchester of the North." "The Finnish market is very important to us" says Werner Ebeling, signatory at BRANKAMP.

BRANKAMP: STRONG SHOWING

The ProcessMonitoring pioneer BRANKAMP will appear in the following trade shows: FEIMAFE 2007 (May 21-26, Ahembi Park, Brazil), Blechexpo & Schweisstec 2007 (June 13-16, Neue Messe Stuttgart), EMO 2007 (September 17-21, Hannover), Stamping Days 2007 (September 19-21, Pforzheim).

MAHLE STARTS PRODUCTION IN CHINA



The auto parts supplier Mahle has started production in its Chinese joint venture Mahle Tri-Ring Train (Hubei). Mahle owns 60 percent of Macheng shares. Their partner Hubei Tri-Ring owns the other 40 percent.

QUOTE OF THE MONTH:

"Our toughest competitors and challengers are our customers and their expectations."

Takeo Fukui – President of Honda

News

GERMAN MECHANICAL ENGINEERING BOOMS

For the first time German mechanical engineers took second place in the world with a production volume of 180 billion Euros. This means they have passed the Japanese (174 bil. Euros) who are now in third place. The Americans remain in the lead at 271 billion Euros.

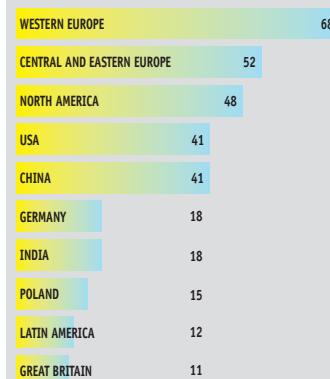
BRAZIL IN A CAN



The Brazilian BRANKAMP representation for punches – the TESTOR company – is recording more and more orders for B100. The innovative BRANKAMP system is often used in the production of cans. It already sorts out defective parts during the production process. Read more about this on page 4 of the journal.

FIGURE OF THE MONTH:

The ten most attractive investment locations in the world for the year 2006, in percent:



Western Europe is clearly considered the most popular investment location in the world with 68 percent. But also Eastern and Central Europe are very attractive to businesses around the world with 52 percent. In the ranking of the most popular locations Germany takes 6th position with 18 percent.

ProcessMonitoring in Brazil

BRANKAMP: Strong position on the Sugarloaf

In today's competitive world global presence is more important than ever. Therefore BRANKAMP is spreading its world-wide net of representations more and more. In Brazil, the ProcessMonitoring specialist from Erkrath has been present since 1989.

The HDT Company in Sao Paulo represents the machining division. In order to be able to show employees the production on-site in Germany, HDT traveled to Erkrath with a four person delegation. "This way we can convey the BRANKAMP philosophy to our partners right here," so Werner Ebeling, signatory at BRANKAMP. But the Process-Monitoring specialist is also well positioned in the areas of punches and cold forging. "Our representation TESTOR supplies the Brazilian market for punches including can manufacturers with innovative Process-Monitoring systems", according to Ebeling. The company South-Wind International in Sao Paulo



Werner Ebeling (2nd from right) with machining experts from HDT in Brazil

is responsible for cold forging. All three BRANKAMP representations also were at this year's FEIMAFE – the Brazilian trade show for tools and machine tools.

Monitored by BRANKAMP

A stiff breeze in energy production

Wind energy has moved away from the fringe a long time ago. In 2006 the 18,685 wind turbines in Germany produced a total energy of 20,622 MW. This puts Germany far ahead in the international comparison.

Wind energy is really not a new idea. Even in the ancient world people used the energy wind produces for locomotion as well as to perform mechanical labor. The first plants for generating electricity came into existence at the end of the 19th century. The rotor blades of modern wind turbines are now made from glass fiber reinforced plastics or from carbon fibers. Germany is among the tech-

nology and world market leaders not only in the use but also in the production of systems and system components. German wind energy

employs a total of 70,000 workers. BRANKAMP controls the production of such wind turbines with its ProcessMonitoring systems.



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All the way

"Leading German insurances recommend the installation of our CMS systems," so the expert Ebeling. The systems also help in adhering to required quality standards in sensitive manufacturing areas, such as for car parts suppliers or in aircraft construction.

Many businesses have therefore long been using the ProcessMonitoring systems from the first mover and world leader BRANKAMP. More than 50,000 BRANKAMP applications are in operation around the world. "Our product range encompasses every-

thing from the effective ProcessMonitoring system CMS to complete Production Monitoring solutions that allow for optimal production control," according to Werner Ebeling. "For instance through the nifty combination of CMS systems with a GT terminal."

Set-up aids for presses in automobile production

Efficiency, safety and mobility (part 2)

Every year 250,000 cars roll off the conveyors at Ford in Genk. Roughly 5,000 employees produce the Mondeo, S-Max, and Galaxy models in the Belgian plant. One of the most important departments is the sheet metal shop with its giant machines of 2,000 tons of pressure. "Our spectrum reaches from complete side panels to fenders to reinforcing parts," explains Hans Josef Richner, electrical engineer at Ford in Cologne. One of the presses in Genk is as tall as a small single family house. The presses often measure more than 4.5 by 2.5 meters. Richner: "The critical moment in our manufacturing process is the installation phase for new tools."



*Bestseller Galaxy, BRANKAMP-System PK 6000:
"Increased productivity"*



Together BRANKAMP and Ford have localized the particular needs of the plant in Genk. "Just as important as the installation aid itself is being able to store the installation data and curves," says Richner. "Therefore we decided on the BRANKAMP PK 6000 as an installation aid." The advantages are self-evident: If an identical tool is needed, the optimal values are already stored in a curve in the memory. "This shortens the installation phase and increases productivity," according to Andreas Steinhauer.

Increasing productivity

Efficiency was also the measure of all things in the equipping of the punches with ProcessMonitoring. With the support of the Ford compe-

tence team, the service providers of BRANKAMP have

equipped a total of three lead presses with sensors and connections – co-called machine preparation sets. Of particular note: A BRANKAMP PK 6000 can monitor the installation of all three presses. "The BRANKAMP system

rolling cart," says Steinhauer. "This way the BRANKAMP PK 6000 can be used flexibly – exactly at the press at which a tool is being changed." The ProcessMonitoring system is connected to the corresponding press through a plug. "A particularly efficient solution", according to Richner.

Plans for the future

The car manufacturer will stay with ProcessMonitoring systems by the world market leader from Erkrath. "We are currently considering the use of BRANKAMP systems in our Ford plants in Cologne, Saarlouis, and possibly Valencia," says Richner.

If you are interesting in reading Part 1 of this article, please contact us at +49 (0) 211/25 07 60.



Every year a quarter of a million vehicles leave the plant in Genk.



BRANKAM B100: Defective parts are immediately recognized and sorted out.

B100 in the manufacturing of cans

Safety made easy

Cans are everywhere these days – whether it be for preserves, beverages, or paint cans. There is, however, always one problem in the manufacturing of such metal packaging: Ensuring that the quality always remains one hundred percent the same. The B100 by BRANKAMP can already detect deficient metal packages during manufacturing and sort them out.

B100's in-process control attacks the consistency problem in the manufacturing of cans at its root. The BRANKAMP system recognizes defective cans with double sheet metal or crease formation in the lids already during production. In order to prevent damage to the machine, B100 stops the production system as soon as it detects double layers of sheet metal. "Defective lids are simply sorted out during manufacturing. This way defective parts are not sold in the first

place," says Gerd Köster of BRANKAMP. This way the B100 by BRANKAMP not only protects the manufacturing business from deficient deliveries but also from unnecessary expenses. To give an example: Apart from defective parts, the BRANKAMP system also recognizes the danger of a collision and shuts the machine down in an emergency.

The in-process-control is ensured by force sensors. Depending on the application, the sensors

are placed directly in the tool or on the side of the machine. As soon as the sensors detect violations of the previously individually determined process patterns, defective parts are sorted out and the machine is stopped. The B100 by BRANKAMP can be adjusted or modularly upgraded for every manufacturing machine.

You can find tips and trends for ProcessMonitoring in can production at www.brankamp.com.

What is...

... the quick start mode?

BRANKAMP's quick start mode allows the user to start ProcessMonitoring systems directly after installation at the machine. Plug it in, push the button, start production – the basic setting of the machines is that simple.



As soon as the system is integrated into the machine, the user already has access to the most important functions. Collision protection as well as part counting are immediately available with the quick start mode by BRANKAMP. Another advantage of the quick start-up: When the service technician adjusts the parameters of the ProcessMonitoring system to the individual conditions of the manufacturing business, he already has access to the most important setting data. The machine operator also benefits from the quick start mode. He can get used to the system in the first few days and collect possible questions that the BRANKAMP service technician can then answer comprehensively during the fine-tuning. After the fine-tuning the operator can use all functions of the ProcessMonitoring system without limitations.

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