

Lindau based DORNIER GmbH

Successfully interwoven: Tradition and innovation

Screeching tires, brake marks on the asphalt and then a violent bang - a car accident can happen faster than you think. So it's a good thing when the life-saving airbag works properly. For this reason, the highest quality standards apply when manufacturing airbags. About 80 percent of the airbag fabric used worldwide is manufactured on looms from Lindau based DORNIER GmbH.

The company's head office is in Lindau at Lake Constance/Bodensee and is the largest manufacturer of looms in Germany. After the war, this reputable aircraft company looked for a new field of business and decided to specialize in high-quality textile machines. „We supply looms throughout the world with an export quota of over 90 percent. Our looms are used to manufacture top quality textiles for furniture, clothing and also for the safety industry, for example including fabric to make airbags. It goes without saying that the fabric must meet the highest quality standards,“ says Siegfried Biegger, head of



machining production. „Bedding, for example, can of course be produced somewhere else more economically, but when you

need quality and certain safety standards, then this is the right address for you.“

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News

GOOD TRADE SHOW OUTCOME FOR GILDEMEISTER



The EMO 2009 in Milan was a success for Gildemeister. The company concluded the trade show with orders received amounting to 52.6 million Euros and 254 sold machines. As the largest exhibitor at the EMO, Gildemeister presented 41 exhibits, including seven world premieres, on an area measuring about 1,500 square meters. This metal working trade show received more than 124,000 visitors from nearly 100 countries.

BRAZIL: LARGEST MARKET FOR MERCEDES BENZ TRUCKS

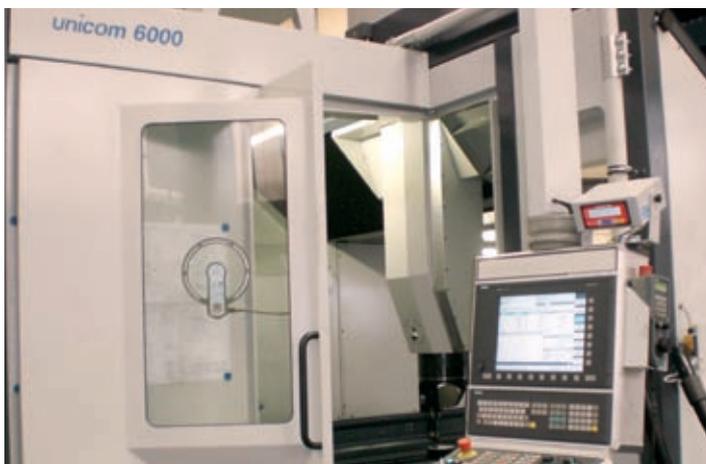


In 2009 Brazil became the largest market worldwide for Mercedes Benz trucks. More than 23,000 trucks were sold between January and September. Mercedes Benz do Brasil is the largest manufacturer of commercial vehicles in Latin America and has the largest Mercedes Benz truck factory outside of Germany. In 53 years, Mercedes Benz do Brasil has sold more than 1,000,000 vehicles; every second truck in Brazil is a Mercedes.

QUOTE OF THE MONTH:

»You can't overtake a person if you follow in his footsteps.«

*Francois Truffaut,
* 6 February 1932
† 21 October 1984
French director*



BRANKAMP CMS system at work on an Unisgn Unicon 6000 complete machining center for vertical turning and 4-axle milling.

Patent applications

Germany is out in front

Germany is Europe's patent king: In 2008, 18 percent of European patents went to German inventors and businesses. This pushed the Federal Republic into prime position over other European countries, followed by France and the Netherlands with six and five percent respectively. Only the USA registered more patents in Brussels with a share of 25 percent. Last year saw a total of 147,000 applications for a European patent. The main applicants included Philips with 2,857 patents, followed by Siemens with 1,863 and Samsung with 1,677.

The special issue

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„Uncomplicated: System replacement with BRANKAMP SAR“

Portrait

The IT specialist

Carsten Neubauer works around the globe and installs the BRANKAMP BDE system DC5000 and the innovative FactoryNet. He services systems by teleservice from Erkrath. And by the way, he's also on the spot when BRANKAMP employees' computers get stuck, the e-mail system gets blocked or the printer goes on strike. As network administrator he has been looking after the entire IT system at BRANKAMP since 1998.

So this 42 year old certainly has his hands full: Together with another employee, he not only looks after the in-house IT system but also all the PC-based equipment in the development department. The diversity and daily challenges of his job appeal very much to the trained electrician. „It's

great to see that problems are solved in the end, however complicated they might appear to be at the beginning.“ And, „As system administrator, you really have to get your teeth into some jobs to find the solutions, even outside normal work hours,“ says Mr. Neubauer about his job.

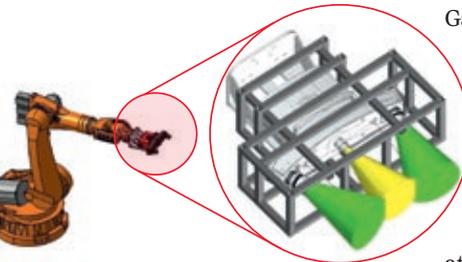
In his free time, father of two Mr. Neubauer performs on stages across the Bergisches Land (northern region of North Rhine-Westphalia, Germany): He is a passionate saxophone player and has performed numerous times with the DRK Wuppertal wind orchestra.



Innovative measuring technology solution

Collision protection for coordinate measuring system

Audi has developed an innovative collision protection system for a robot-supported, optical coordinate measuring system at its Neckarsulm plant. Audi is employing the experience of ProcessMonitoring global market leader BRANKAMP for its new concept.



The new protection system is used in measuring technology for tool-making at Audi in Neckarsulm, where the dimensions of sheet metal parts are calculated in a robot measuring cell. A sensitive, optical sensor is mounted to a robot. Up to now, however, the sensitive coordinate system has not been protected against collisions.. Karl-Heinz

Gawron from Audi AG tackled this problem in his technician's study assignment and designed a cage made of aluminium profiles that almost entirely encloses the measuring system. Both a force and acoustic emissions sensor from BRANKAMP are attached to the cage. These sensors recognise the tiniest forces and the quietest noises inside the cage material. A BRANKAMP CMS system evaluates the measured data and switches the system off immediately. Gawron summarizes, „This opens up entirely new possibilities for the measuring department, such as unmanned measuring over night.“

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The company brings in about 50 percent of its turnover from looms which are up to 5.4 meters wide and are designed as pneumatic or rapier looms. Nearly any type of material can be processed: from silk to fiberglass and wire. The company's product range is rounded off with the manufacture of film stretching units for high-quality packing films and drying units for paper or building materials.

Quality assurance starts with the production of individual machine parts to ensure that these renowned looms work perfectly. „Our looms are entirely manufactured in-house - from planning to component production, right up to assembly,“ explains Biegger. „We currently have six machines equipped with the BRANKAMP

CMS in our production department. We have also tried out systems from other manufacturers, but we were never really that happy with them.“ With nearly 1,200 employees at three locations, this company can manufacture up to eight machines a day. Since 2005, Lindau based DORNIER GmbH has been relying on BRANKAMP in the production of their looms and special machinery. Biegger continues, „Previously we had crashes which destroyed the B-axes on two machines. Each one caused about 20,000 Euros of damage. But we haven't had any crashes since installing the BRANKAMP CMS. So our purchase is already amortized just by avoiding a single crash. Any new purchases therefore always include a BRANKAMP system.“

FIGURES OF THE MONTH:

The top locations for company head offices worldwide:

USA	18%
Germany	12%
Great Britain	7%
France	5%
Netherlands	4%
China	3%
India	3%

Source: Ernst&Young, Studie Standort Deutschland 2008

In 2008, Germany took second place for the most popular location for company head offices. Compared to the previous year, the USA and Great Britain lost two and four points respectively, securing a positive twelve percent for Germany. France and the Netherlands followed at the rear in fourth and fifth place.

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Innovative FactoryNet tool

Uncomplicated: System replacement with BRANKAMP Safe and Rescue

In today's world, no company can afford to have machine standstills and production failures. ProcessMonitoring systems from BRANKAMP support companies and ensure that all processes run smoothly. And if the BRANKAMP systems themselves have to be serviced or replaced, then it goes without saying that speed is the highest priority. With its Safe and Rescue system, BRANKAMP has developed an innovative FactoryNet tool that makes the entire process of equipment replacement really easy.

Up to now, new ProcessMonitoring systems have been manually adjusted. In order to achieve optimum process monitoring, the worker has had to enter every important piece of data into the system. This time intensive procedure is now relegated to the past with the new BRANKAMP SAR system (Save and Rescue). All the relevant data for process monitoring is saved on a central server using the FactoryNet tool. During the initial installation of a new ProcessMonitoring system with SAR function, the system

automatically locates the FactoryNet server and simply downloads the data and necessary software from the server.

The innovative SAR function: Ready to go!

„Uncomplicated equipment replacement minimizes downtimes and means that production is more economical,“ says Franz Saliger, BRANKAMP's attorney in fact and head of the cold solid forming department as he lists

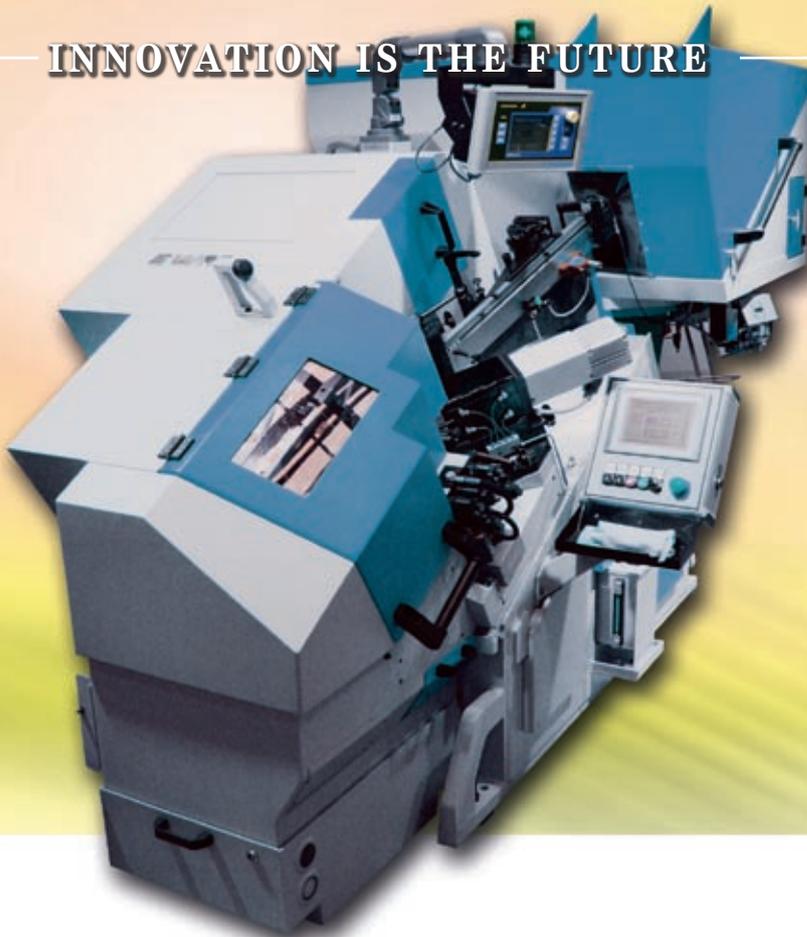
the function's advantages. The new Safe and Rescue function was launched with great success at the wire 2008. Technical innovations, such as the BRANKAMP Safe and Rescue function, are an important prerequisite for successfully asserting the company's position against the competition.

Technology leasing

Entering the field of new technologies is now possible without major one-off costs by using

attractive leasing models. „This financing model has numerous advantages,“ says Franz Saliger. „Our customers can access monitoring systems with the latest technology and therefore provide ideal protection for their production processes against failure and malfunctions. Of course this also has a positive outcome on the economic efficiency of the company.“ To summarize: Leasing not only helps to save money when purchasing new systems, these innovations also help to generate more turnover.





Adaptive Die Match:

Economic rolling

„Trial and error“ is a thing of the past - today’s world demands „automatic optimization“. Automated and efficient production is the key to success. This also applies to the thread roller sector: By using the automatic adjusting aid, **Adaptive Die Match** from Prokos (a company of the BRANKAMP Group) and E.W. Menn, the track is always ideally adjusted throughout the entire production process.

Problems frequently occur with thread rollers due to tools that are not adjusted to the ideal setting; a factor that, for example, can lead to parts slipping or to seams. But how do you ensure that rollers are ideally set-up? Lots of companies still rely solely on the experience of their employees.

Sensitive sensors detect track discrepancies

Workers adjust the machine manually, often after time-consuming trial and error. Once a setting has been determined, it is rarely altered. „And that’s the problem,“ says Prokos engineer

Ferdinand Oppel. „If you really want to produce to best capacity, you would have to monitor the machine settings on a continuous basis.“ After all, settings can vary over the course of production, for example from the machine heating up or from the stroke count being increased. Together with machine manufacturer E.W. Menn, the ProcessMonitoring experts responded by developing the reliable, electronic roller adjuster, **Adaptive Die Match**. Sensitive sensors react to the smallest of track discrepancies and track alignment is continuously monitored, and when necessary, adjusted, throughout the entire production

process. This keeps quality standards consistently high – irrespective of the operator or the dynamic behavior of the machine. Optimum machine settings also clearly reduce tool wear. „This cost factor shouldn’t be underestimated,“ says Mr. Oppel.

Low wear

ProcessMonitoring systems up to now have always calculated the ideal settings, but workers still had to adjust the machine manually according to this information. But now, thanks to **Adaptive Die Match**, that extra work is superfluous.

What actually are trend monitoring?

Malfunctions repeatedly occur during production, sometimes due to worn-out tools. BRANKAMP has developed the innovative „trend monitoring“ function which makes it possible to continuously log the current condition of tools.



Wear is an insidious process which is why trend monitoring also looks at the level of force required over the long-term. If a machine needs to apply considerably more force for a process during production, then this is a sure sign of tool wear. Trend monitoring means that the operator always has an eye on the condition of the tools and can intervene at the right moment. Trend monitoring identifies exactly when a tool has to be replaced. The advantage: Tools that are still good enough are not replaced too early, and you don’t run the risk of endangering production from worn-out tools.

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