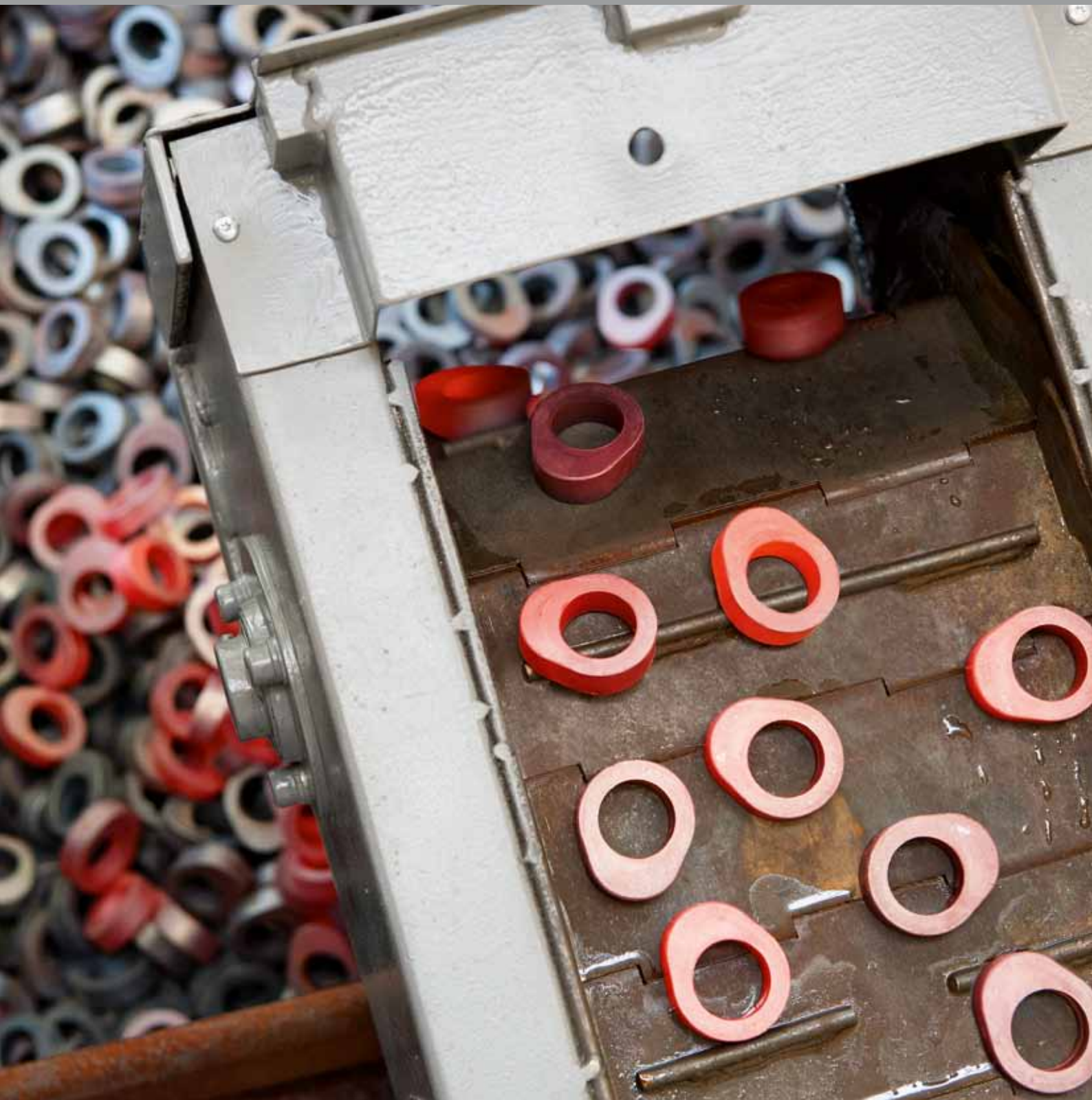


NETSHAPE

Hatebur magazine for horizontal cold and hot forming – 2/2013



Cams produced on the converted AMP 30 S in the test and training center in Reinach, Switzerland.

CEO'S VOICE

Dear Business Friends,

In this edition, we describe the complex commissioning of a Hotmatic AMP 70 XL HFE. This machine produces parts for the INA Kysuce factory in Slovakia, which is part of the Schaeffler Group.



This year, we have also succeeded in putting the first Hotmatic HM 35 into operation in the People's Republic of China. This state-of-the-art machine from the latest generation can be found not only in Europe but also in India, Japan and Korea.

The HM 45 no. 1 is on the production floor. As you may already know from earlier information, this machine is based on the successful concept of the HM 35. You could say it's the big sister. More details can be found in the new HM 35/HM 45 brochure.

In this issue, we look back on some very eventful marketing activity. From the symposium in Moscow and the trade fairs in Japan, China and Brazil, through to the training courses for our customers.

We also introduce you to our staff in the After Sales Service, which is a very important area for us and our customers, and is also set to become more significant in the future as the scope of its services grows.

And now some internal news – On 1st October 2013, Thomas Christoffel was appointed Division Manager for Marketing and Sales and is now responsible for the sale of Hatebur machines worldwide.

Looking ahead: The Wire & Tube trade fair will take place as usual next April in Düsseldorf. We will be showing you a new coldformer. A concept which focuses on economics – and you can expect a surprise!

And now, I wish you a successful end-of-year and a relaxing time over the holiday period.

Urs Tschudin

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Photo: Marc Eggimann

COVER

The AMP 30 S in Reinach was modernized in the last few months and given a new coat of paint. Shortly afterwards, it was back in use.

LEGAL INFORMATION

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INTERNAL NEWS – NEW MANAGEMENT FOR THE MARKETING AND SALES DEPARTMENT

On 1st October 2013, Thomas Christoffel assumed responsibility for the sale of Hatebur machines worldwide and was also promoted to Division Manager of Marketing and Sales.

Thomas Christoffel has been working for our company for 15 years. In his career to date, he has been able to collect and expand his experience in the fields of technology, sales and business development. Alongside his deep commitment to our company, he was recently able to graduate with an Executive MBA degree at the University of St. Gallen.



HOTMATIC HM 35/HM 45 – NEW COMBINED BROCHURE FOR TWO HOTFORMERS

The HM 35/HM 45 brochure contains details about both of the ultra-fast hotformers which can be used to manufacture the most diverse of precision forgings extremely cost-effectively. Maximum accuracy in product transfer and pressram guide makes it possible to form precision parts on the HM 35 and HM 45 while increasing tool life at the same time. The brochure is available in German, English, Chinese and Japanese.



HAPPY HOLIDAYS AND A SUCCESSFUL 2014 – BEST WISHES AND MANY THANKS

We thank you all for the enjoyable cooperation and look forward to a continued successful partnership. Wishing you and your families a happy holiday period and a successful new year.

We would like to be there with you through the working day in 2014 as well and bring our home country a little closer to you. And so Hatebur is again producing a wall calendar with pictures from Switzerland. As in the last few years, you will receive it in December, either through your agency or directly by post.

AMP 70 XL HFE FOR SCHAEFFLER, KYSUCE – INCREASED FLEXIBILITY AND IMPROVED QUALITY ASSURANCE

 Dr. Höinghaus/Schaeffler & Hatebur  Schaeffler & Hatebur

Schaeffler produces 1.2 million parts per month in its factory in Kysuce in Slovakia on the Hatebur Hotmatic AMP 70 XL HFE. Production in a newly built hall started as early as ten months after the order was placed. The machine will soon have been running for a year in three-shift operation, thereby increasing the flexibility and capacity of the Kysuce forging site.

Schaeffler Technologies AG & Co. KG is a corporate group in operation worldwide and is a leading global manufacturer of roller bearings and a well-respected supplier to the automotive industry. With more than 76,000 employees worldwide, of whom around 29,800 are in Germany, Schaeffler achieved an annual turnover of around €11.1 billion in 2012.

With its brands INA, LuK and FAG, the company develops and manufactures precision parts for everything that moves, whether fit-

The company was founded in Schweinfurt in 1883. At that time, in Schweinfurt, Friedrich Fischer designed a ball mill, with which he succeeded to manufacture steel balls by machine for the first time, to a high degree of precision and in large quantities. This idea is regarded as the historical start of the roller bearing industry which started its triumphal march from Schweinfurt and continued on around the world. In 2001, INA-Holding Schaeffler KG acquired FAG Kugelfischer Georg Schäfer AG, Schweinfurt. Together, INA and FAG then became the world's second largest manufacturer of roller bearings.

“We are very pleased with the perfectly coordinated work performed and the highly motivated Hatebur team.”

Dr. Alexander Putz, from Schaeffler

ted in machines, plants and motor vehicles, or used in the aerospace industry.

With 180 locations in more than 50 countries, Schaeffler has a global network of production locations, research and development facilities, sales companies, engineering firms and training centers.

THE KYSUCE SUBSIDIARY

INA Kysuce, a.s was established in Slovakia with the laying of the foundation stone in 1999. The official opening followed one year later and the factory was expanded in several construction stages until 2007.

Today, Schaeffler AG acts as a holding company. The operational business runs under the umbrella of the wholly owned subsidiary Schaeffler Technologies AG & Co. KG. The operational business is divided into the two divisions: automotive and industrial. These are supported by the central operations of research and development, production, purchasing, human resources and finance. The globally distributed forging locations of the Schaeffler Group all come together in the “forging” product line.



The Schaeffler factory in Kysuce in Slovakia. (Picture: Schaeffler)

225,000 PRODUCTS IN THE PORTFOLIO

The most important customer group with a turnover share of around 60 per cent is the automotive industry. Worldwide, customers include all well-known motor vehicle manufacturers and well-respected suppliers.

By way of an organization which is globally established and close to the market, the industrial sector bearing and plain bearing solutions, and linear and direct drive technology of the INA and FAG brands for around 60 different sectors of industry. The portfolio comprises more than

225,000 products, ranging from millimeter-sized miniature bearings through to large-scale bearings with an outer diameter of several meters. The “aerospace” business division from the industrial sector manufactures high-precision bearings for aircraft, helicopters and rocket engines. Special applications with high-precision bearings round off the offering.

SHARED EXPERIENCE HELPS

The collaboration with Hatebur has existed for more than 50 years and shows the long-standing contacts to which the purchase



The foundation is being prepared for the AMP 70 XL in the new hall.



The crane driver carefully positions the Hatebur machine suspended above the foundation before several workers then help to align it accurately.

of a forming machine from Switzerland can lead. A Hotmatic AMP 70 from Hatebur has been in operation in Schweinfurt since as early as 1964. With the purchase of the new AMP 70 XL HFE machine for the Kysuce factory in Slovakia, capacity was expanded, more flexibility gained and quality assurance improved at the start of 2013. The advantage of this second, equally equipped forming machine lies also in the changeability, throughout the machine, of tools, material, spare parts and, where necessary, even personnel assignment. It is therefore no wonder that, as early as during the first discussions, the equipment (tool packages, die blocks, feed rolls, punch holders, transport grippers and other details) was also given consideration.

HARD-WORKING HEAVYWEIGHT

Alongside other technology groups and press manufacturers, Schaeffler – and therefore the “forging” production line – operates worldwide with the Hatebur spectrum of machines ranging from an AMP 20 S through to the 70 XL HFE. The good experiences with the Hotmatic AMP 70 were the decisive factor in reinvesting in this model again.

Weighing 180 tons, the machine is more than twelve meters long and more than seven meters wide, and towers almost four and a half meters in height. With one shear station and four forming stations, it is ideally suited to manufacturing precision forgings up to a diameter of 165 mm and initial weight of 5.0 kg. Demanding roller bearing steels can be processed in the machine.

The Schaeffler factory in Kysuce was a forging site even before the investment in the AMP 70 XL HFE. The choice of location was influenced, among other things, by the customer structure which had existed until then. Mainly passenger vehicle components are produced in Slovakia. These take over safety functions – in wheel bearings, for example.

To develop machine expertise, employees were able to benefit from the Schaeffler training concept for horizontal presses. Operating and maintenance staff were also trained by a Hatebur head service technician during commissioning.

NARROW TIME FRAME SPECIFIED

The greatest challenge presented by the project was the start of production ten months after the order was placed (including the hall annex and infrastructure). Even the preceding project phase, from the first idea through to the purchase of the machine, was very challenging, having been set at three months, and could only be successfully implemented thanks to close collaboration between all those involved.

In June 2012, the carrier and the unloading specialist, together with those responsible for the project, visited the site in Kysuce to view the existing conditions. The initial customer acceptance by those responsible at Schaeffler took place at the end of June in the assembly plant in Kriens in Switzerland. During the proceedings, the emphasis was placed on examining the design features according to the requirement specification, checking the satisfactory and professionally executed manufacturing finish of the machine and visually inspecting the scope of delivery.

The machine body was loaded in Switzerland on 6th August and reached the factory in Slovakia on 14th August 2012, where it was then unloaded using lifting gear. Assembly and commissioning work was carried out by Hatebur service staff between August and November. As early as mid-September, it was time to give the command "Power on!" The target agreement on a shorter time for commissioning was achieved and demonstrated on 22nd October 2012 with the shearing of the first hot bar. To achieve this result, three service technicians and one electrician from Hatebur were at work during commissioning, supported by qualified Schaeffler staff.



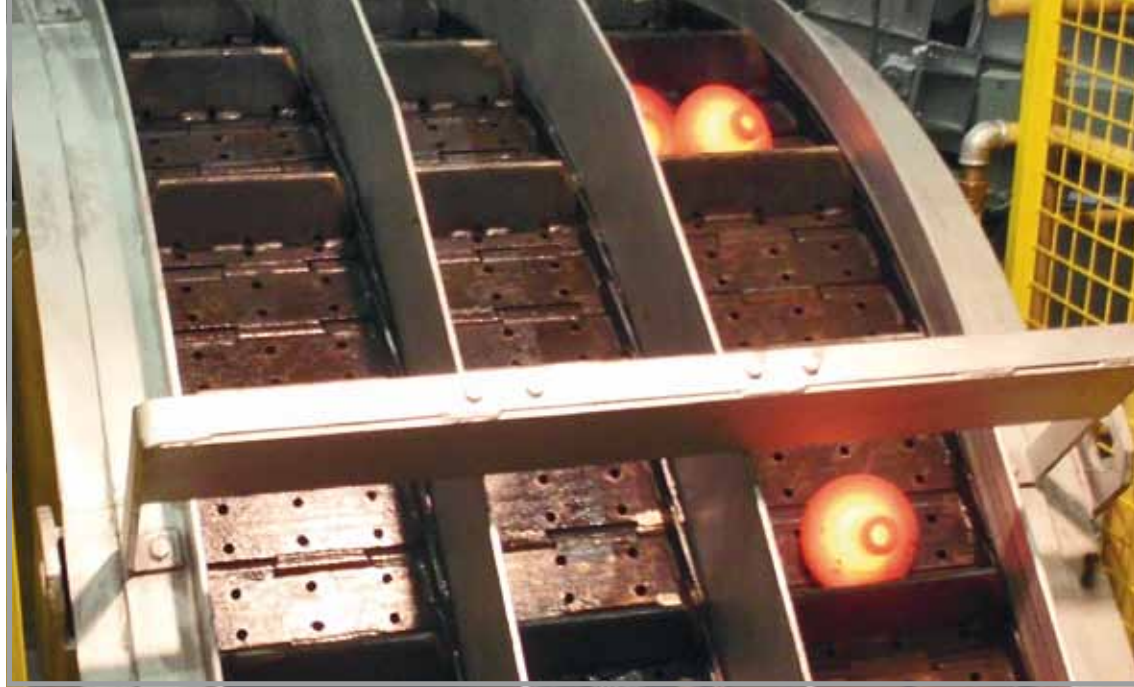
The hall temporarily looks like a large-scale construction site, where heavy auxiliary equipment is in use.



The heating system and other peripheral equipment are ready for assembly.



Hatebur behind bars? No, it's the noise abatement cabin being prepared for installation.



Forgings (wheel bearing blanks) on the inspection conveyor. (Picture: Schaeffler)

Using the “tower ring” acceptance part, it was possible for the separation process to be tested on the new machine and a 200-hour production run was successfully completed on 1st February 2013.

SUCCESSFUL PROJECT

As a result, Schaeffler was exceptionally pleased with the perfectly coordinated work performed and the highly motivated Hatebur team. The machine has been running in three-shift operation for a year now, and has been manufacturing accurate and uniformly filled forgings of outstanding quality.

A further expansion of the factory and the associated purchase of additional Hatebur machines will be decided based on requirements. In the next few years, the potential and opportunities in the forging market must be exploited – for reducing the use of material and energy, for example. In future, however, the largest growth market will still be for automotive products. Although competition from Asia is intensifying cost pressures, it also provides benefits in benchmarking. The next important milestone now for Schaeffler in 2014/2015 is to achieve the targets set in the preceding project calculation.



Wheel bearing for passenger vehicles with integrated ABS sensor for increased stability and safety. (Picture: Schaeffler)

TRAINING FROM HATEBUR – SPECIALIST KNOWLEDGE PROFESSIONALLY COMMUNICATED

 Christine Steiner

Hatebur offers service packages which can be put together according to your needs and the available resources. Training courses are given on the subjects of construction, machine handling and/or machine maintenance, as well as basic, refresher or customer-specific courses.

Experienced trainers from Hatebur instruct and train technical specialists who work on all aspects of Hatebur forming machines. Training is made available either in connection with the purchase or installation of a new Hatebur forming machine or in the course of a program designed to refresh machine-related specialist knowledge.

Which training modules are often requested?

Process and tool development

A Hatebur machine is only as efficient as the quality of the tools and the process used. Hatebur therefore has a considerable interest in assuring that customers are always up-to-date in terms of both tool design and processes. This makes knowledge transfer by means of intensive training programs indispensable.

Machine maintenance and servicing

Regular machine maintenance which is planned in advance helps to prevent production failures and unnecessary costs. Technical specialists from Hatebur train your staff either on site or in Reinach.

Machine handling

Operating the system correctly helps to prevent typical errors and ensures that the necessary skills are quickly acquired. As a result, efficiency is improved and output increased. We also conduct this training on site at your location. For a small machine

that has not been fully installed yet, please book your training here with us in Reinach.

Electrical systems

Your staff learn to interpret fault messages and how malfunctions in the electrical system can be rectified.

Even though the training programs that we provide are extremely varied, they are precisely tailored – at all times – to the needs of each course participant. For further information, please contact our After Sales Service. We will be happy to advise you.

Tel.: +41 (0) 61 716 21 11

hatebur@hatebur.ch

Four of the Hatebur trainers. From right to left: Olivier Ritter, Reto Elsener, Heinz Stutzmann, Sotirios Andriopoulos.



SECOND FORMING SYMPOSIUM IN RUSSIA – MACHINES AND SYSTEMS IN PRACTICAL APPLICATIONS

 Klaus Schreiner  Hatebur

Two years ago, Hatebur held the first symposium on forming in Russia. During the “Metalloobrabotka” trade fair, the occasion had a strong appeal for specialists from the forging industry. This year’s follow-up event confirms Hatebur’s commitment to Russia.

Motor vehicle manufacturers have been focusing on the BRIC countries for some time. A variety of different criteria make Brazil, Russia, India and China of great interest as sales markets. The increasing demand for vehicles is based on growing population figures, the desire for mobility and greater prosperity.

In the last few years in Russia, not only European but also Asian motor vehicle manufacturers have joined forces with Russian OEMs in joint-venture partnerships in order to be able to offer modern-style cars on the Russian market. The market is supplied with CKD and SKD kits (completely knocked down and semi-knocked down). Kits are transported to Russia where they are then assembled in Russian assembly plants, just like the

model used by a certain Swedish furniture company.

MORE LOCAL MANUFACTURING

The Russian government now promotes greater value creation in the country at a rate of up to 60 percent. In conjunction with component manufacturers (TIER 1 suppliers) and part manufacturers (TIER 2 suppliers), added value can be increased as required.

Many component manufacturers have responded to the call from the OEMs and opened factories on industrial estates in close proximity to automotive plants. At first, only simple products with easily manageable production processes were manufactured. But now, increasingly more complex production processes are being





The participants in the second forming symposium in Russia in front of the beautiful Sky Hall lecture room.

introduced, such as cold and hot solid forming technologies, which require multi-discipline knowledge.

HATEBUR ACTIVITY IN RUSSIA

In this phase of industrial development, it is important to have a presence on the market and to present state-of-the-art machines and contemporary manufacturing expertise to the companies based in Russia.

As with two years previously, Hatebur has invited seven companies as sponsors from the forming industry and associated up- and downstream processing stages to hold a joint presentation event. A suitable framework for the event was again provided by the "Metalloobrabotka" 2013 engineering trade fair in Moscow. The Sky Hall on the trade fair site – a lecture room with a pyramid glass roof – provided the ideal venue. Around 100 people accepted the invitation, thereby demonstrating the keen interest in the event.

In his introductory address, Dr. Stefan Heim from the Gerpisa Automotive Research Institute, based in Paris, gave an overview of the structures, production figures and growth prospects for the Russian automotive mar-

ket. The sponsors gave their speeches in collaboration with one of their customers under the title of "Machines and systems for the forming industry in practical applications".

SPEECHES BY RUSSIAN USERS WITH EXPERIENCE

The aim was not just to present state-of-the-art machines and production processes to the audience but also to acquaint those present with an account of how the machines and processes were used and applied by Russian companies and fellow countrymen. The inclusion of practice amid the theory was greatly appreciated by the audience.

After the presentation, consideration was given to an important point: An evening boat trip on the river Moskwa offered the best opportunity for getting to know each other and enjoying in-depth discussions among fellow specialists.

This is the second event of its kind and by holding it, Hatebur has established a series of events and communication which is destined to be continued as a tradition over the coming years.



The documentation from the speeches, including abridged versions of the presentations, was handed over and carefully studied, and has provided the participants with an excellent reference source.

WHAT IF THERE WERE NO HATEBUR AFTER SALES SERVICE? ... – UNTHINKABLE!

 Petra Helbling  Christine Steiner

Hatebur customers value the After Sales Service everywhere in the world and would hardly be able to imagine how they could keep their Hatebur machines in operation year after year without the support of the various local advisors from the After Sales Service and its managers.

The After Sales Service takes over responsibility for a machine after the sale and project phase, i.e. after the warranty has expired, and often retains this responsibility for longer than one generation. During this time, the staff of the After Sales Service are the contact partners for all customer questions and problems concerning an existing system.

CLEAR CONTACT PARTNERS IN EVERY COUNTRY

The department is subdivided according to country, with Germany having the largest proportion. But, for some years now, work performed for Asian customers has been continuously rising, which is why Hatebur is increasingly investing in expanding the

subsidiaries in that region. It is therefore no surprise that, this year, the After Sales advisor for the Japanese and Thai markets stayed in Japan for three months in the spring and for two more months in the autumn, supporting the subsidiary there. But the sales regions in the USA, Brazil, India, China, Korea, Italy, Spain and Eastern Europe also occupy prominent places in the work volume of the After Sales Service.

SUPPORT FOR ALL ASPECTS OF PRODUCTION WHERE HATEBUR MACHINES ARE USED

Production readiness and productivity are always the priorities during liaison between customers and the After Sales Service department.



During visits to Switzerland, the latest technologies are also discussed in the training and test center in Reinach. Mr S. Y. Yoo (left), President of SQ Tech Corp. (South Korean agency), and Thomas Freiermuth (right) from Hatebur.

In order to fulfill this requirement, Hatebur provides the best possible support for:

- Customer staff training courses
- Machine inspections
- Overhaul planning
- Spare part deliveries
- Sudden problems with the machine while it is in operation
- Questions about forming and clarification of manufacturing options
- Clarification of new parts and/or for tool queries
- Advice on changeovers

MANY-SIDED AND CONSTANT CHALLENGE

After Sales Service staff support the customer from the first contact, to quotation and implementation, through to invoice creation and payment receipt – all of which is associated with the most various of requirements and demands a wide range of specialist knowledge.

One of the most important requirements for the department is rapid reaction and clarification. When a customer approaches the department with a problem or a question, the After Sales advisor responsible

At the weekly meeting, the focus is on special cases.

From left to right: Thomas Freiermuth, Matthias Prischl, Thomas Rost, Ueli Wenger, Petra Helbling, Oliver Borgolte, Stefan Bühler, Hansjörg Gebhard (Division Manager).



contacts the technical specialist department, spare parts department or Hatebur service technicians. A customer-orientated solution is jointly sought in order to keep the production failure to a minimum.

An order can therefore be completed with the delivery of a small but important spare part, or it may involve organizing and supporting the work required during an overhaul which takes more than six months.

ANNUAL INSPECTION AS A PREVENTIVE MEASURE

The After Sales Service offers customers an annual inspection as a preventive measure for repair work. This is preferably carried out during downtimes, in order that the interruption in production at the customer's site is kept to a minimum. The deployment of fitters for overhauls or other larger-scale work is therefore agreed weekly with the project department within Hatebur.

In addition, the After Sales Service staff provide customers with information about new service products, technical innovations, retrofit options and improvements which may be applicable for their machines. Of equal importance, in advance of negotiations, are accurate investment calculations which show the customer when a conversion with ESA 600 (electronic bar end eliminator), for example, is amortized. The calculation bases can then also be used to estimate material savings.

INTERNATIONAL CONTACTS WITHOUT LANGUAGE BARRIERS

European customers can contact After Sales Service staff directly. In international business, the Hatebur subsidiaries in China and Japan or our agencies take over the processing. In this way, language and cultural problems can be avoided. Thanks to ongoing staff training at agencies and subsidiaries, customers then have access to contact partners who also possess a high level of specialist knowledge.



Iwao Hoshi from Hatebur Japan K.K. and Jacques Hänggi next to the BKA 1, number 009 and made in 1959. After withdrawal from service at a Japanese customer's site, the machine was brought back to Hatebur and is now on display at the headquarters in Reinach.

A telephone call to Hatebur outside of business hours, i.e. during the night or at weekends, is redirected to a mobile phone. The member of After Sales staff who is on duty is then able to call the customer back and offer some initial assistance, or they can quickly initiate other clarifications.

AFTER SALES SERVICE STAFF ON THE MOVE

All staff in the department are in very close contact with customers and regularly visit customer sites in order to respond to requirements and requests. Hatebur is also routinely represented at specialist trade fairs.

It's no wonder then that, in the background, with so many trips to all parts of the world, not only do flights have to be booked but a wide variety of other matters have to be clarified, such as obtaining visas, booking hotels, hiring cars, etc.). All this work is carried out in the administrative office of the department.

This is how the whole After Sales team sets about its work to ensure customer satisfaction: In a competent, quick and straightforward manner.



Petra Helbling and Ueli Wenger make preparations for the next big trip.

THE STATE-OF-THE-ART TOTAL PRESS LOAD MONITOR (PLM) – ESPECIALLY DESIGNED FOR HOTFORMERS

Christine Steiner Hatebur

Hatebur ensures that hotformers from Reinach are never operated above the technically permissible total press load for a prolonged period. A state-of-the-art total press load monitor (PLM) is employed for this purpose. Operators on Hatebur machines can rely on the display in the control panel and use the information provided to quite easily prevent any damage from occurring.

Hatebur Hotmatic hotformers are ideal for producing precision forging parts which are produced from steel bars in a fully-automated process. Hatebur machines are impressive not only for their precision and flexibility, but also because of their ability to produce large volumes of parts at a high production rate which, in turn, yields good production efficiency.

DIFFERENCES IN TOTAL PRESS LOAD

Every machine has a different total press load, depending on the size and scope of the parts which are usually produced. The total press load can therefore range from 900 kN for the smallest machine (AMP 20 S) up to 20,000 kN for Hatebur's biggest hotformer (HM 75 XL).

In order that the machines produce parts reliably and precisely for many years, overloading must be prevented. That is why Hatebur is offering the state-of-the-art total press load monitor (PLM) for hotformers.

This monitoring system was developed by Hatebur as an own product in 2009 in order to make use of all the expertise that was already available in-house concerning system and assembly, commissioning and also calibration.

The display for the total press load monitor is integrated in the control desk and allows the operator to monitor his machine visually. The picture detail shows a section of an AMP 30 control desk, on which the PLM monitor can be seen on the left.



FAIL-SAFE OPERATION

This prevents the machines from being operated above the technically permissible total press load for a prolonged period of time. The PLM guarantees that every stroke is monitored and that a signal pulse is exchanged between the frame monitor and machine control system. If this signal is missing, the machine is stopped. In this way, it can be ensured that a fault in the measurement chain or the failure of a component is detected immediately. In the process, various limit values are monitored. If the defined range is exceeded, the machine is automatically stopped.

USER-FRIENDLY MONITORING

A visual display integrated in the control desk indicates all messages to the machine operator. Numbered process messages show whether an item of information, a

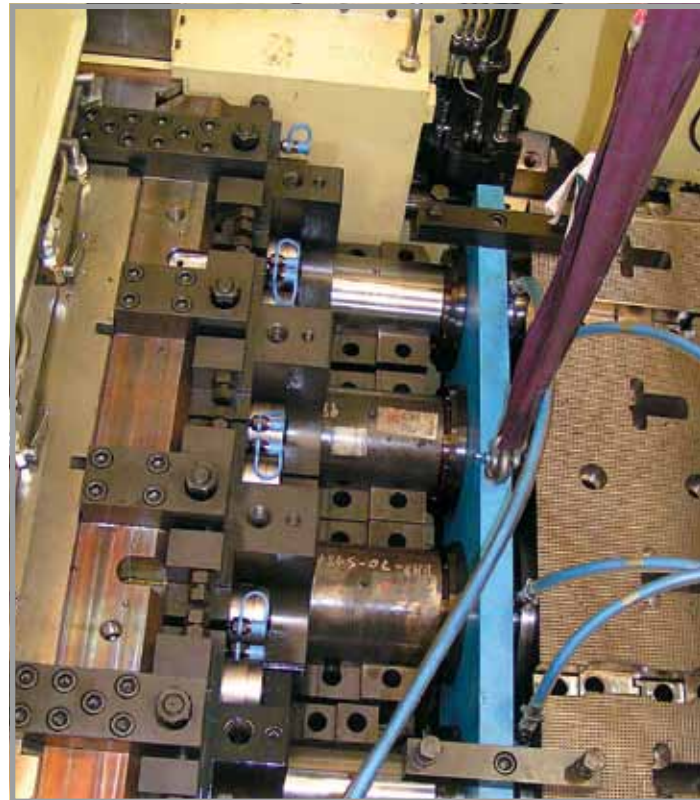
warning or a malfunction is present. Measurements are continuously saved in the evaluation unit and are therefore then also available for quality control or for evaluations. These features provide the operator with a reliable and user-friendly monitoring system.

ASK US FOR DETAILS

In order to prevent machines from being overloaded, Hatebur therefore recommends installation of the total press load monitor every time a new hotformer is purchased. Machines that are already in use can be retrofitted. Ask for our product information sheet or contact our After Sales Service directly for more detailed information.



Installation of a load sensor on the machine body, showing an AMP 30 S as an example.



Creating the nominal press load in the machine body using hydraulic cylinders for calibrating the PLM, showing the AMP 70 as an example.

NEW LOOK IN THE TRAINING AND TEST CENTER IN REINACH – THE HATEBUR HOTMATIC AMP 30 S

Patrick Stemmelin Christine Steiner

Four systems are in place in the Hatebur training and test center in Reinach, Switzerland: For cold forming, the Coldmatic AKP 3-5 and AKP 4-6 S, and for hot forming, the Hotmatic AMP 20 S and the AMP 30 S. The oldest machine has now been modernized and, at the same time, was given a new coat of paint according to the standard design.

The converted AMP 30 S has been in operation since 1968. It was modernized during the introduction of several striking innovations which have recently been implemented on the Hotmatic.

A few years ago, the system for discharging the parts through the body at the side and a new heating system was installed. The new discharge system offers the advantage of fewer indentations caused by falling and less contact with cooling water. In addition, the following innovations were implemented:

– Attachment of the reinforced transfer unit (exact positioning at high stroke rate, trouble-free production)

- Replacement of the press control system
- Control by Simatic S7-300 SPS and integration of a Simatic touch panel into the new control desk
- Retrofitting of the Pilz PNOZmulti safety control system which, like the touch panel, communicates with the SPS via Profinet. Where necessary or advisable, the machine's electrical installation was also replaced.
- Conversion to the latest ESA 600 version (MSX-Box)
- Induction heating system

The four systems in Reinach are used to conduct tool trials commissioned by customers and also for machine projects, as



The AMP 30 is made ready for its new appearance not only mechanically but also in terms of its paintwork.





Crankshaft, flywheel and clutch.



The mechanically overhauled and re-painted AMP 30 S in Reinach.

well as to perform relatively small production runs. Process Development uses the machines for pilot trials in collaboration with Hatebur's own Research and Development department. The systems are also used for new technical concepts as well as for demonstrating production runs during cus-

tomers visits. Following the comprehensive mechanical overhaul, the machine was also made ready for its new appearance with a new coat of paint and is now available again for a wide variety of tasks.



The operator panel of the AMP 30 S for quick access by the machine operator.



TRADE FAIRS / EVENTS

ACTIVITIES IN JAPAN

The relatively new "Metal Forming & Fabricating Fair Tokyo" (MF-Tokyo) trade fair was held in Tokyo from 24th to 27th July. The trade fair was first held in 2011 and it has now made its second appearance. Two years ago, as many as 150 exhibitors took part in the show and almost 30,000 visitors came to the site to find out about metal forming on the stands, which numbered more than 850. Hatebur Japan was represented at this year's fair with its own stand and was pleased to see how many visitors came to see them there.



ACTIVITIES IN CHINA

The ChinaForge Fair 2013 was held in Shanghai from 24th to 27th September in parallel to the MetalForm China exhibition. Hatebur (Shanghai) Technology Co. Ltd. again welcomed customers and other interested parties to its own stand and was able to make new contacts.

ACTIVITIES IN BRAZIL

During the 33rd Senafor in Porto Alegre (9th to 11th October), many Brazilian visitors came to Hatebur's stand in search of information and advice on hot- and coldformers.



VISIT HATEBUR

■ IN GERMANY

The WIRE will again be held in Düsseldorf from 7th to 11th April 2014. Hatebur will be there with a stand and will present its latest machine. So, be ready for some news from Switzerland and don't miss the premiere that will take place at the fair! We look forward to seeing you there.



join the best
7.-11. April 2014
Düsseldorf, Germany