REGISTER FOCUS

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Automated Colour & Register Control

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Great strides

At this year's World Publishing Expo 2014 in Amsterdam, Q.I. Press Controls will be revealing some major advances it has been making in the ongoing development of the innovative mRC-3D and IDS systems and its successful partnership with EAE. The most striking evidence of this is provided by the unveiling of IDS-3D.

Full steam ahead together

The focus and attitude in Oosterhout and Ahrensburg are all about moving full steam ahead together! This will be both visible and perceptible on the joint stand at the World Publishing Expo in Amsterdam later this year.

Specialists from both companies have already experienced how it is to combine the best of two systems in a single innovative system: IDS-3D.

This integrates the detection technology of mRC-3D and IDS with EAE's LOOP system. So, what difference will Q.I. Press Controls' and EAE's customers notice? The big difference is that colour density, printing errors and colourregister and cut-off register can now be monitored at nano-speed, checked using minimised technology (see photo) from one and the same maintenance-free 3D camera. In addition, the enhanced system intelligence controls and maintains the print in guestion at the required

in the sector in which EAE excels. Partners, users and OEMs can fall back on the synergetic power of both organisations: Q.I. Press Controls and EAE, with a joint workforce of around 200 employees and highly proficient R&D services. The new, but never-ending challenge for us all is to continue building on our innovative capacities, customer satisfaction and close client relationships!

Synergy

What should the printing industry expect from this joining of forces between Q.I. Press Controls and EAE? Well, in short, a combination of the best of both. The first joint product (IDS-3D) has already been launched! Our technicians have received extensive training with regard to each other's products and systems and the cooperationbetween R&D experts is working like clockwork. In the intense environment they occupy, their heart is set on convincing customers of the effective synergy boost which in Amsterdam, about our energy-saving programme in printing-plant applications, and about major retrofit projects carried out by Q.I. Press Controls and EAE. In short, a broad range of news on technological features and info regarding the ongoing development of our businesses and sales successes.

With this combi-edition of registerFOCUS, / the management once again wishes to confirm our complete conviction in a joint future for Q.I. Press Controls and EAE. We wish you an enjoyable read and are ready to answer any questions you may have - either on our stand at the World Publishing Expo 2014 in Amsterdam, or/elsewhere. We are at your service!

Menno Jansen and Erik van Holten, Q.1. Press Controls' management.

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quality levels in a closed-loop/hands-free fashion. For customers already working with Q.I. Press Controls' or EAE's systems, retrofit and/or adaption propositions will lead to even greater efficiencies.

EAE users

The most important message for EAE users is that of continuity! From its base in Ahrensburg, the revitalised EAE aims to enthusiastically meet all service and retrofit requirements. Ongoing agreements will be followed up in timely fashion. Q.I. Press/Controls' goal hasn't changed either: our solutions must satisfy our customers' requirements at all times! Whether the problem is small, large or complicated, it shouldn't make a difference. The new EAE also has a name to uphold and will be doing its utmost to consolidate this reputation in the supply of control systems for printing presses. An installed base of over five hundred EAE users says much about this highly respected press controls builder! Furthermore, EAE can now place its trust in experienced owners who know the printing industry like the back of their hands, especially

is derived from this. This feeling - that 'the whole is greater than the sum of its parts' - is undoubtedly a catalyst for powerful integrated innovations which will help raise the operational efficiency of printing presses, their control and print quality automation to new, unheard-of levels. Let's say it's tailor-made for a new generation of professionals. On the other hand, this coming together of forces brings about new opportunities for the retention of value on investments made. Coldset and heatset printing plants can take these into account in their long-term planning. We shall be available at the World Publishing Expo 2014 in Amsterdam to exchange ideas on the matter. But of course, we can turn any venue into a meeting place, so that we can mull over our mutual plans together.

Most valuable asset

This new edition of registerFOCUS will give you a more indepth idea of the latest state of affairs and the joint goals set by Q.I. Press Controls and EAE. The most valuable asset in this new venture is you, the customer, and our aim is to help you meet your objectives. This edition also provides you with information about the new launch Erik van Holten & Menno Jansen unveiling IDS-3D.



Editrice La Stampa, Turin (Italy) amongst the first to commission IDS-3D

Wifag efficiency boost

According to a press release issued by the publishing company, by investing in Q.I. Press Controls' automatic colour control system, Editrice La Stampa is making a firm commitment to maximising its efficiency in the future. "La Stampa is investing in its Wifag OF372 because newspapers will continue to take up the lion's share of its earnings", explains Federico Reviglio, production manager at La Stampa.

Interview

Shortly after having signed the contract on May 16th 2014, registerFOCUS took the opportunity to interview Federico Reviglio at Editrice La Stampa SPA. Reviglio is La Stampa's highly experienced production manager. At the time - in 2004/2005 - he was closely involved in the acquisition of Wifag's new OF372 press (Evolution), when La Stampa started printing all its pages in full-colour. "Our previous three presses (Wifag OF370) could only print a maximum of twenty pages in full-colour, which was too few to satisfy the growing demand on the part of our readers and advertisers. It's impossible to imagine anything but full-colour nowadays. Readers and consumers think in colour. Just take a look at our schedules of our current presses: they are all full-colour," Reviglio says, pointing to the schedules on the wall. "In the original set-up, each of the presses, consisting of three 4-high printing units, were

J It's a huge efficiency boost! J

operated from three desks. This apart from the controls in the paper-roll basement. Using this configuration, we print around 300.000 newspapers in sixteen different editions daily".

Gems from the Wifag factory

From the gantry in La Stampa's enormous print hall at Via Giordano Bruno in Turin, it's possible to see and hear the OF372 – a 4/2 newspaper printing press – on which everything takes place in a disciplined, matter-of-fact fashion. We can identify the machine from the schedule in Reviglio's office. It is a long line of twelve so-called 4-high blanket-to-blanket printing units with the folders concealed in between. Or more precisely, four KF40/T 2:5:5 folders, each with two folding formers alongside each other: gems from the Wifag factory in Berne. Not visible are the paper-roll basement and the control room which we are shown later. The latter is a soundproof room occupied by a long line of operator desks from which the presses are controlled via an abundance of buttons and switches. After all, not everything happens automatically. A team of operators goes back and forth to their part of the press or fleetingly grabs a printed paper from the production line to check the quality before hitting a few buttons again. This flurry of work is set against a backdrop of calm, regularly interrupted by bouts of activity, as operators check the ink and water balance, the folder settings of the press lines. Maybe it's because they are alarmed, or they're just looking to prevent problems, but operators at La Stampa are ready to intervene when something goes amiss or to deal with any untoward consequences. They are closeknit teams, all responsible for a group of three printing towers with a folder.

Graphic Operation Screens

We are curious to know what Reviglio sees changing in the control room and on the presses on account of the IDS-3D. "We will be installing Q.I. Press Controls' Graphic Operation Screens (GOS) on four operator consoles, one for every group of three towers plus the accessory folder. These GOS are put on the ABB consoles between the print controls and the soft-proofing screens. We have them on a swivel arm thrust forwards, since these are touchscreens. The operators must be able to access them easily from both a sitting and a standing position. Operationally speaking, this will mean that a complete section (a folder with three



In the centre, Luigi Vanetti (CEO, La Stampa) and Menno Jansen (CEO, Q.I. Press Controls & EAE) confirming the IDS-3D order for La Stampa's Wifag 0F372. Far right, Federico Reviglio (production manager, La Stampa), to his left Carlo Caporizzi (CEO, GMDE, Q.I. Press Controls' agent in Italy). Far left, Christian Janse (Sales Executive, Q.I. Press Controls). To his right, Marco Rosso (purchasing manager, La Stampa)

printing towers) will be controlled by an ABB console using one GOS monitor". "So, how's that going to work out", we wonder even more curious. Reviglio: "What can you see now?" Well, we can see a number of operators paging through printed copies of the papers, constantly focusing their attention of possible quality defects. These, if any, are being corrected at the flick of a switch via the desk or the printing press. Currently managing a printing press investment. If you zoom in and examine the operational costs of the machine more closely, doing nothing is not an option. We only have to look around us to realise the effects of economic negligence. We felt that the whole operational process - from start-up, quality retention, as far as net output production - needed going over with a fine tooth-comb."

now be performed with the more advanced IDS-3D camera. Our understanding is that the R&D partnership between Q.I. Press Controls and EAE was the last push in the development of the IDS-3D, which operates without any marks or colour bars at all! That's great intelligence! Our publishers are also enthusiastic because none of these registration marks will be needed in future. This means that a full-colour print production can be controlled

77 The IDS-3D system brings about more effective operations by professionals **9**

requires a lot of visual and manual concentration. "And of course, the sooner you can intervene the better. Once a print defect starts to develop, this can quickly multiply into print we are unable to sell, that means waste. The IDS-3D system helps professionals operate more effectively. One operator is able to do so much more, more quickly and more directly. Later that is the way we will be able to do this from just one desk".

Considerations

Reflecting on what we had seen in the press control room, you begin to realise the pressures being placed on efficiency today. With this in mind, we ask Reviglio about La Stampa's reasoning with respect to its investments. "Looking earnestly into the future, we realised we had a dilemma: we either continue in the same way or make efficiency improvements", explains Reviglio. "After all, it became increasingly clear that Editrice La Stampa's printed newspapers represent the lion's share of the business' earnings. For the time being, this is a stable, powerful and driving force in the turbulent world of all other forms of media marketed by the company. The publisher couldn't take the risk of leaving its most important source of income unprotected against internal interference, in other words, disregarding its innovation potential. This was despite the realisation that with our Evolution generation Wifag OF372, we still had one of the most modern printing presses, which - from a technological point of view - can still provide many years' service. But we are also aware that the press has a limited economic lifespan. You can't stand still if you aim to retain value on

IDS-3D

"Besides the register system we already have on our Wifag OF372, we researched for six months the automated, closed-loop print quality control systems available on the market and negotiated with well-known suppliers. It soon became clear that Q.I. Press Controls was amongst the front runners, especially in view of recent developments with the link-up with EAE. Functions that previously belonged to Q.I. Press Controls' IDS can hands-free by the IDS-3D from the moment it starts and throughout the print run, and kept at a constant quality with respect to the following: the inking, the dampening control and fault detection. Even print plates which threaten to come loose can be detected. And all this is possible at the same time on twenty-four colour webs! This is a huge step forward in terms of intelligence! So you can imagine that the response time to printing defects which is now determined by the operators, will decrease



La Stampa's Wifag OF372 pressline

even further thanks to the full automatic rapid-detection and control of IDS-3D. The evaluation and correction process which takes up so much time on the part of the operators and costs too much waste, will be taken over in full by IDS-3D. The new system will improve our startup procedures substantially with immediate reactions on quality-performance. That will save time and waste. All in all IDS-3D represents a huge boost in efficiency for our presses".

Conclusive

registerFOCUS is never averse to asking a few more critical questions. For example, why has La Stampa chosen to throw in its lot with Q.I. Press Controls? Reviglio: "First of all, Q.I. Press Controls' IDS-3D has a superior design when it comes to simplicity: it's an allin-one system. It's maintenance-free and low on energy. As it happens, we've been monitoring Q.I. Press Controls for quite some time. We've seen them at trade-fairs and had contact via colleagues. In addition, we've had conclusive references from current users". When asked what La Stampa expects from a 'return on investment', the assumption is that this efficiency investment will pay for itself within less than three years, apart from the savings in waste, the improvement in quality and the reduction in complaints from readers and advertisers. That's precisely what Editrice La Stampa was looking for in defining its best-survival strategy.

Operationalization and training

We also take a quick look at the positions on the press where the IDS-3D cameras and its bars will be installed. Although the IDS-3D camera has considerable depth of focus (sometimes caused by fluttering of the web), the Wifag construction above the printing units has accessible positions for all the cameras. "So, another bonus!" we remark. "Accessibility should not be an issue," explains Reviglio. "All IDS-3D cameras are maintenance-free on account of the Automatic Ink Mist Shield (AIMS). It's one worry less!" Finally, we ask about instructions and training. "Assembly and operationalization take place per section," Reviglio explains. "Q.I. Press Controls' technicians and instructors will deal with each section one by one. The first section will be made operational and



Control desks, as yet without GOS.

include training. As soon as that's been completed, we'll switch operators so that we can instruct them with respect to the IDS-3D. This means they know the ropes when their own section has been completed. What's more GMDE, Q.I. Press Controls' Italian agent, provides assistance if any language problems arise", concludes Reviglio.



In this periphery, the IDS-3D will be installed on each printing tower.

Q.I. Press Controls' corporate responsibility 2014

Unceasing care

Corporate responsibility is an all-imbuing responsibility; always shrewdly and unhesitatingly vouching for a healthy continuation of internal and external everyday environments.



Passing onto subsequent generations

A high-flown ideal? Definitely not. It is about a feasible corporate strategy. Continuity is in any case the top priority in this. Besides, a company like Q.I. Press Controls badly needs customers and employees. And, above all, good, dependable solutions. Solutions, which take a load off customers' shoulders. After all, employees, companies and customers have the responsibility to pass on this everyday environment considerately to subsequent generations. For this, they need each other; a need in the 'caring for tomorrow'. Q.I. Press Controls has been pursuing this focus on corporate responsibility for years as a 'standing' policy. After all, every day you should want to give account to the generations of tomorrow. Here, registerFOCUS looks more closely at Q.I. Press Controls from the viewpoint of contemporary corporate responsibility.

Care for everyday environment

'Start close to home' was Q.I. Press Controls' primary thinking in this care project. 'Where can we help to turn depletion of natural resources on this planet into

their conservation?' Energy reduction would seem to be an initial scoring point. In-house, Q.I. Press Controls has restructured everything towards green power and blocking energy wastage. Where possible, CO2 production is compensated. Q.I. Press Controls' project team is propagating this style of corporate responsibility among colleagues too. After all, together you form a community, which protects the everyday environment against depletion and possible pollution. In this way, Q.I. Press Controls' standing policy in corporate responsibility is working its way into the genes of all those involved in the business. Thrift turns trumps and wasting is outlawed. Nonchalance is simply the enemy of corporate responsibility. At social level, Q.I. Press Controls wants to show involvement close to home. The route for this was found through sponsoring the Sophia Children's Hospital in Rotterdam. This makes the employees becomes involved in caring for sick children there. At the local level, we offer learning places for disadvantaged young people; a prudent social investment.



Q.I. Press Controls' social sponsoring

Why do we want it?

Self-interest always lies behind human actions, at micro and macro levels alike. registerFOCUS analyses how that relates to corporate responsibility at Q.I. Press Controls itself and among its customers. As energy goes from costly through much too costly, we are seeing the concern for planetary energy sources increase greatly. In parallel to this, the concern to reduce CO_2 is compelling us to lower energy consumption and to find replacements in alternative, clean energy sources. For that reason, energy consumption must go down in all industrial and household tasks; logical! Self-interest is compelling us to do it and this is making the planet become less affected by it. Consequently, day in, day out, Q.I. Press Controls' R&D is focusing on lower energy consumption of its own system programme. Autonomous technology developments often derived from 'Eureka!' projects and Silicon Valley innovation - are helping with this. The developers have it staring them in the face! This edition shows that once again with the latest IDS-3D. We can see that Q.I. Press Controls' former systems on rotary presses are now able to manage with a fraction of the energy consumption required in the past thanks to new system generations. And that for far more tasks. The engineers at Q.I. Press Controls have succeeded in reducing the average energy consumption per 4/4 paper web with a "full options" system, i.e. closed-loop colour and colour register, by as much as 72%. A direct boost for lower power consumption and longer lifespan. That is why we want it!

Q.I. Press Controls' responsible systems

In the spirit of corporate responsibility policy described above, Q.I. Press Controls' project team and directors consider social and industrial technology trends and translate them on to R&D too. The illustrations show the effects of this abundantly clearly. Whereas, at one time, power-hungry, hot halogen lamps used to be the norm in detection lighting, now cold, energy saving LED lighting is standard throughout. Now that processors are capable of simultaneously processing highly complex algorithms, Q.I. Press Controls sees the opportunity to have smaller, more compact cameras and underlying control technology shift far more work, Q.I. Press Controls' and EAE's technicians complement one another. From this, we immediately see a translation into the multitasking, and let us say multi-performing, IDS-3D. Even more may be expected from that collaboration in the field of operational printing presses. The company also has 'arrows in its guiver' when it comes to reducing the energy of press controls. The speed at which these innovations are being translated into new versions is self-evident. It would not be responsible if Q.I. Press Controls failed to seize that momentum. Thus, again and again focussing on innovation, it is needed, Q.I. Press Controls should want to approach it in Olympian fashion. It is not just a duty as a company, above all it is a duty towards customers and business contacts that are banking on it. Not without reason, responsible and sustainable enterprising is of paramount importance to Q.I. Press Controls. The company sees it as an unceasing care

77The latest IDS-3D has achieved an energy saving of no less than 72%



Lehtisepät Oy wants IDS-3D and mRC-3D on both Wifag presses

Radical retrofit

Lehtisepät Oy's Wifag newspaper presses are undergoing a radical rejuvenation. They print Finland's oldest newspaper full-colour, 'Keskisuomalainen'. That newspaper has been published since 7 January 1871.

Full ahead on 3D camera generation

After careful consideration, Keskisuomalainens' newspaper printer in Jyväskylä, Finland, decided to take the plunge with Q.I. Press Controls' up-to-the-minute 3D camera generation, for both colour control and colour register control and more! In other words, total closed-loop 3D automation. With that, this printing plant of the Lehtisepät Oy group will start to profit from super intelligent 3D measuring and control technology on its Wifag press configuration. A very challenging project for Q.I. Press Controls! After all, it is a complex operation on two quite different Wifag machine generations.

Challenging retrofit project

Lehtisepät Oy has set itself the goal, instead of making a new investment, to intervene on the existing press configuration. That is happening with a project plan, in order to make the complete printing system competitive again for a new decade, mechanically and economically! To give readers a better idea of this colossal intervention, registerFOCUS describes its scale. Lehtisepät's production platform numbers one Wifag ten-cylinder satellite type OF470-GTD print units started in 2004, plus three Wifag ten-cylinder satellite type OF790 print units started in 1993. Together, they have two folders and four reel splicers from Wifag in the same age categories. Everything double width double size (120x112cm) with Honeywell press controls. The OF790 is a longitudinal shaft-driven machine and the QF470-GTD is a shaftless direct-driver machine.

"We decided to invest in automation, because we have a good press which is not profitable to scrap, but we need better competitivity and efficiency. By investing in Q.I. Press Controls pur goal is to get a better regularity in printing quality, less material waste and savings in labour costs", save Kari Kivinen, Managing director of Lehtisepät Oy. "We chose Ot. Press Controls because we think that the way how they measure and control the ink and dampening in their closed-loop system is the best in the market at the moment. They have good references and we also have positive experiences with Q.I. Press Controls' colour register control system in our other plant in Pieksämäki." He concludes. By the end of 2014, this Wifag configuration will start to print largely hands free, because by then Q.I. Press Controls will have equipped the presses with a 3D quality automation platform. Lehtisepät itself is carrying out the mechanical upgrade overhaul of the presses. Connoisseurs will understand that to describe this intervention as 'a challenging retrofit project' is no exaggeration.

Lehtisepät Oy's newspaper production

Lehtisepät Oy is one of the larger Finnish newspaper production groups and is part of Keskisuomalainen Corporation founded in 1888. The driving newspaper for these printing plants is 'Keskisuomalainen', the main title in the Middle Finland region, with the slogan 'Printing tomorrow today!' It is also Finland's oldest Finnish language newspaper, first published on 7 January 1871. 'Keskisuomalainen' is a politically independent regional newspaper. With approximately 149,000 readers, it is the fifth most read newspaper in the whole of Finland, with a print-run of approximately 62,000 copies and approximately 63,000 at weekends. The group has two printing plants: in Jyväskylä, Pieksämäki. Lehtisepät has an annual turnover of approximately 27 million euro with about 92 production employees.

3D quality automation platform

In its vision for the future, Lehtisepät judged that any new investment in printing presses would be 'a bridge too far' and regrettable for Wifag's indestructible hardware too. Nonetheless, in order to keep up with the times, Lehtisepät decided to develop a mechanical overhaul plan and an economic overhaul plan for the current Wifag configuration. In other words, a plan to migrate the traditional intensive manual printing press operation to the highest efficiency operating level. A number of parties made proposals for that plan. With high hopes, Q.I. Press Controls threw their 'latest weapon' into the contest. That contest was not to be sneezed at! Yet Q.I. Press Controls' proposal overcame the critical barriers. That proposal was for a complete closed-loop 3D automation platform with the self-explanatory price-performance ratio of the latest IDS-3D system.

Thirty two 3D cameras

Q.I. Press Controls' 3D quality automation platform

contains solutions for; folding and cut-off register for printed and cutted webs; colour plus front-to-back plus unit2unit register; colour control according to ISO 12647-3; all closed-loop. Q.I. Press Controls translated this 3D platform into the following camera positionings;/

 Eight <u>m</u>RC-3D cameras will control the cut-off register from variable positions in the superstructures on both folders. These <u>m</u>RC-3D cameras ensure that all compiled webs are given correct cut-off and folding positions with the aim of a perfect, in register, folded newspaper. In total, that requires sixteen <u>m</u>RC-3D cameras;

 On top of all print units, the printed vebs are checked by two IDS-3D cameras and set to ISO 12647-3 standard colours; in combination with water control and fault detection. Both presses produce four two-sided full colour print webs in total. Thus, a total of eight IDS-3D cameras are needed for performing closed-loop correction on the four print colours.

• Leeated in that same machine environment, on either side of the printed web, is a 'High Performance' version of the variable positioned <u>m</u>RC-3D camera. This is for controlling all register tasks for print colours, front-to-back and unit2unit register. Why? On these Wifag presses with their two different types of drive and substantial age differences, it would not be sensible to have those tasks performed by IDS-3D scanners too. The servo-drives and databuses to be controlled are too diverse. It would certainly be possible on a press with more uniform parameters! Thus, for this additional closed-loop register automation, the Wifag's need a total of eight <u>m</u>RC-3D cameras.

In this way, Q.I. Press Controls' total 3D quality automation platform for Lehtisepät Oy's Wifag production line adds up to thirty two 3D cameras, whose physical exteriors and double sensor technology are the same, but whose internal processor algorithms have two versions: <u>m</u>RC-3D and IDS-3D.



Keskisuomalainen printers in Jyväskylä Finland.

On the operator desks there will be two GOS touch screens for operational interaction with the printers. Further, IQM will provide management reporting about quality behaviour and machine behaviour.

IQM's strategic role

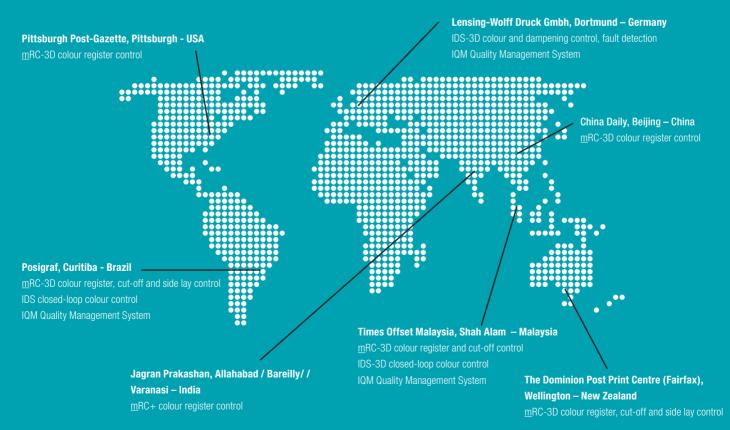
Connoisseurs will understand well that Lehtisepät Oy's plan to prolong the lifespan of its newspaper production configuration is a big challenge. Consequently, Lehtisepät's management has assigned Q.I. Press Controls' IQM a special role. Following the total upgrade, IQM will allow 'a finger to be kept on the pulse' particularly in a mechanical respect. By means of IQM's comprehensive selection possibilities, printers and printing plant management will soon be analysing timely signals about imminent technical hitches. Targeted trend analyses will soon enable dedicated planning of preventive and curative maintenance for both Wifag's and actually add ten years to the productive machine lifespan.

Q.I. Press Controls' staff is immensely pleased with this contract. It feels good to enjoy so much trust. They are buckling down to be able to excel in this special retrofit project with a total 3D platform!



mRC-3D for cut-off register

Worldwide orders **QIPC**



Q.I. Press Controls and EAE unveil at World Publishing Expo 2014 in Amsterdam

Growth camera IDS-3D

High-intelligence growth functions are now already implemented in the IDS-3D camera!

Back in the day. . .

Do you remember Q.I. Press Controls' news at DRUPA 2012? It said, "New wonder camera unveiled! Q.I. Press Controls launches <u>m</u>RC-3D self-cleaning camera with depth detection. Twice as sure thanks to its double sensors; a new <u>m</u>RC-camera generation – developed to make quality automation on rotary presses even more effective". Potential growth functions were mentioned at that time too. Now, at World Publishing Expo 2014 in Amsterdam, Q.I. Press Controls are seeing to it that the promises at DRUPA 2012 about growth functions are no exaggeration.

that with one high-intelligence camera, which even spots printing errors as well!" This is one of the characteristic differences. After all, up to now, the colour register has always been scanned with a fixed camera position and colour always with a second, traversing (walking) camera.

Revolution

The closed-loop quality automation for all types and widths of offset rotary presses is revolutionary; brought about by R&D collaboration between the developers of the IDS, so successful over its ten years, and the inventors of the EAE-LOOP system. In the eighteen years existence

that the company is constantly reinvesting the fruits of success and collaboration in innovation. Thus, this innovation does not come from Q.I. Press Controls alone, but is further reinforced by the years of experience of EAE. Innovation squared, you might say!

IDS-3D on the rotary press

IDS-3D is positioned in the press on linear traversing bars, as soon as possible after the full colour printed web leaves the printing units. It does not matter if the printed web vibrates a little due to the loosening effect of the adhering blanket. The double 3D sensors can cope with that, In the

99IDS-3D is a true efficiency instrument that does away with operating presses manually 99

And now: one high-intelligence camera

Readers will surely be familiar with IDS' 3D physical camera shape. "Hey, isn't that the mRC-3D camera?" people perhaps wonder. A bit of explanation here: IDS-3D is based on the same camera technology as mRC-3D and the LOOP algorithms. Q.I. Press Controls' and EAE's engineers jointly succeeded in adding super intelligent calculation algorithms to the same camera hardware. Just as did the previous IDS camera, the IDS-3D 'walks' the full width of the web across the print, checks all quality aspects and via servo-functions makes everything set permanently to ideal level. Connoisseurs of Q.I. Press Controls' systems may wonder just how it is possible that the so much smaller and lighter IDS-3D camera now also does what IDS has been known for all these years: fully automated closed-loop colour correction on the fastest rotary presses; heatset and coldset. "Yes, that and much more," say Nan Holten and Jansen, founders/ owners of Q.I. Press Controls and now of EAE too. "IDS-3D also controls the colour register on rotary presses; thus, IDS-3D automatically controls the colours and the colour register without any register marks at all. And all

of Q.I. Press Controls, it has previously put advanced detection camera systems on the market, the first being the successful pioneer IRS camera. The well-known tubeshaped camera with its two sideways halogen lamps for lighting the web. Onto that came a cleanable glass to protect against ink mist. A wonderful solution at that time. Then, at DRUPA 2004, Q.I. Press Controls was the first to launch the IDS camera with internal LED lighting, which used the digital file as a reference for colour inspection and worked fully image-based, so without any colour bar. After that, at DRUPA 2008, came the register cameras of the mRC generation: also with internal LED lighting for sharp register mark detection. Later followed by mRC+ and not much later after that, at DRUPA 2012, Q.I. Controls launched the mRC-3D self-cleaning camera with depth detection; a truly fine piece of optics miniaturisation with 'double eyes'. Those double eyes or sensors are equivalent to the IDS-3D camera now being unveiled and make its role multifunctional in a revolutionary manner. One camera for everything! Q.I. Press Controls' development strategy for quality automation on rotary printing presses is testament to a clear vision towards fulfilling printers' efficiency requirements. It is also proof

same way as a human can only properly see the variable depths with two eyes, so can the IDS-3D. Printed web vibration is therefore not a problem. Nor is a possible poorly accessible spot. An automatic self-cleaning ink mist shield makes the IDS-3D maintenance-free! The ideal scanning moment for print inspection is directly after the printing unit. As it is scanning, the IDS-3D camera takes approximately five hundred segment detection shots on a single web width and processes the register detections and colour analyses in real-time!

IDS-3D colour register: At data level, processors make the actual scanning position on the press correspond with the same image position in the virtual Tiff image. In terms of print register, IDS-3D therefore 'knows' all register positions within the full plate cylinder width and circumference. It converts any abnormalities it finds into correction actions for the lateral and circumfernetial register, the fan-out register or (as in heatset) adjusting the cocking register.

IDS-3D colour control: The double sensors simultaneously detect large quantities of colour images for colour data matching analysis compared to the printing press profiled Tiff 1-bit image data. IDS-3D retrieves

that image data from the prepress-rip. Algorithms in the camera-integrated processors analyse possible abnormalities at CIELab level. These are converted at lightning speed into changes for the ink keys on the ink fountains.

IDS-3D checks everything by referring to a virtual 'stitched-together image'. Thus, IDS-3D matches complete recto-verso copy against the printing press profiled Tiff image data. It does this both to give in no-time analysis conclusions and action commands for servo-controlled correction functions on the full web width and half webs, and to check their web-wide elaboration closed-loop. Examples include colour and water control and fault detection or fan-out register, motor speeds of ink and dampening rollers.

Capacity list

Some substance needs to be given to words like 'super intelligent growth camera IDS-3D'. registerFOCUS obtained from Q.I. Press Controls the following bullet list of system capacities, which, aside from a retrofit version, apply on previously installed IDS and <u>m</u>RC-3D systems. An as it were 'full-options' IDS-3D for starting and producing coldset or heatset rotary presses has the following system qualities on board:

• Immediate control actions with starting presses; a fullblown instrument for reducing paper

waste.

• Immediate recognition and alert of wrongly positioned printing plates, transposed plates and printing plates with defects.

• Immediate setting (within a few hundred cylinder revolutions) to optimum colour register and closedloop monitoring of production quality.

• Immediate control of the fan-out register.

• Closed-loop monitoring of dampening, dot gain and CMYK densities within print quality standards ISO 12647-2 and ISO 12647-3. And that measured within the CIELab colour space model analysed and corrected.

 Fault detection directly after start-up, occurring because the actual full colour print does not correspond with the virtual Tiff image. For example, recognising an error in the mutual print plate register or register of recto on verso. In addition, detection of printing errors occurring during production. Examples include shading/running dry, ink splashes, poor printing due to for instance ink accumulation on blankets, but also recognition and alert when printing plates become loose or errors in paper quality after a reel change. These are just examples. Operators are alerted immediately when printing abnormalities occur on the proofed copy or the virtual Tiff image.

• Automatically dumping copies to waste bins, might unsalable copies occur.

• Data export to management information systems.

• Operator-friendly interface via GOS (graphic operation touch screen) for all functions, including integration of folding and cutting register.

IDS-3D is a true efficiency instrument, which does away with the notion that manually operating a press installation costing five, ten or twenty million euro might still be acceptable.

Users of IDS, mRC-3D and LOOP

Naturally, Q.I. Press Controls also has answers for users who are wondering if, with the advent of IDS-3D, their current IDS, <u>m</u>RC-3D and/or LOOP will start to have less value, or might suffer from servicing hitches due to version outdating. Q.I. Press Controls stresses that servicing hitches would not in any way fit within Q.I. Press Controls' highly rated customer care service. Even the very first IRS supplied and the very first IDS installed

Evolution

Q.I. Press Controls knows eighteen years of camera evolution. Some might wonder why the first camera generation was not yet able to stand at the level of current technology. In those days, global developments in optic, mechatronics and computer speeds were still miles away from today's technology development. Q.I. Press Controls' developers and partners are continually searching the technology horizon, eager to find more efficient process implementations. An inextricably evolutionary process, which market leaders approach prudently in terms of technology policy, in order to retain their edge over the competition. Q.I. Press Controls does that too with the aim of passing on that competitive power to their customers.

will be serviced to full customer satisfaction. A tailor-

made proposal can be quickly prepared for any users who do see something for them in the very latest IDS-3D, or who would like to know what retrofit signifies for their existing Q.I. Press Controls'/EAE system.

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Looking to the future together

It's no big secret: the business development of EAE of Ahrensburg, near Hamburg, Germany, has known a downward spiral ever since 2007. The global financial crisis and the ongoing structural shifts in the print and media industry are two main reasons that have led to a dramatic decline in the number of new deals in the printing press sector. Starting from 2009, this supplier of controls, automation solutions and software for web printing presses completely restructured its organisation and disposed of unprofitable operations, all under the management of Managing Director, Werner Ringel. cooperation agreements in this segment with leading press manufacturers will be sustained.

Parallel to the traditionally important newspaper market, EAE also plans to leverage its retrofit expertise to help protect press investments and extend the life-span of printing equipment in the commercial web offset sector as well as gravure and flexo packaging printing. Overall Ringel sees further growth potential for retrofit business: "A lot of new newspaper presses were commissioned in Central Europe between 2004 and 2006, for instance. These

"Our clients continued having great confidence"

The goal of the these efforts was to sell a leaner, more clearly focused company to a new owner. Yet despite positive business growth, EAE was forced to apply for a protective shield proceeding last year and file for insolvency early December 2013. However, the creditors' agreement that the firm could continue unrestricted business operations throughout the insolvency proceedings proved to be a real stroke of luck. "Our clients continued having great confidence in us. Even while the insolvency plan was being put together, we managed to secure several new and very welcome orders", Ringel reports.

As far as the actual company sale is concerned, EAE's Managing Director makes no secret of the fact that Q.I. Press Controls was his partner of choice among the interested bidders. "Q.I. Press Controls has an excellent reputation and outstanding position in the international web printing market. In addition, the product ranges of both companies complement each other optimally. The overlap is minimal. We control and automate web press workflows, which are perfectly matched by Q.I. Press Controls' automated colour control and colour and cut-off register control systems."

Dawn of a new era

Following the 100 percent takeover by Q.I. Press Controls on April 1, 2014, EAE now operates under the name EAE Engineering Automation Electronics GmbH. The 100 employees at the existing facility in Ahrensburg will continue to offer the full portfolio of press control and automation products and services. The EAE branch in Atlanta (USA) will be merged with the local Q.I. Press Controls' subsidiary at a joint location.

Werner Ringel is confident that the new ownership structure will not give rise to any changes for customers: "Our clients in the printing industry will still be able to rely on EAE and its expertise just as they have done in the past. We've succeeded in binding our know-how and our top performers to the firm. As a result, the new EAE is optimally positioned to serve the market with its high-quality innovations, products and services – today and in the future. On top of that, our global market presence will be sustainably improved thanks to Q.I. Press Controls' extensive network of offices and subsidiary companies. We are now closer to our customers all over the world."

Web presses remain the core business

Printing press retrofits have been a core element of EAE's business over the last few years and this situation will not alter following the takeover by Q.I. Press Controls. Older presses are equipped with advanced, customised control and automation components built by EAE and brought up to date in terms of availability, productivity and production quality. The longstanding

machines are gradually reaching an age where retrofits become relevant. Our strong point is that we're able to modernise any make of web press regardless of whether it was originally supplied with an EAE control system or with a system from another manufacturer."

Although the printing industry remains the undisputed number one addressee, EAE is also taking the initiative in another area. The aim for EAE automation systems is to gain a second foothold outside the graphic communications world in future. "We've already scored some very promising successes with software solutions for high-volume logistics and fulfilment applications in the boom eBusiness market. These new developments are directed at the major online retailers and logistics providers, who we're targeting in cooperation with a young, innovative engineering partner."

Joining forces as a way to boost business

So what are the initial impressions of the collaboration with EAE's new colleagues at Q.I. Press Controls? "It's all got off to a very good start. We've been communicating and interacting intensively throughout the first few months. We feel as if we've been together as a team for a very long time already. It is truly said that we not only complement each other perfectly with regard to our products but also on a personal level", says Ringel – and the current business development appears to confirm his assessment. "Our incoming order rate is stable and significantly exceeds expectations. By the end of the year the order level will increase to a very high level. This is firm

proof that the market takes an altogether positive view of the decision to pool the strengths of EAE and Q.I. Press Controls", he concludes. "It's made us an even more attractive partner for the international printing industry. One project we're currently looking forward to is our first joint exhibition with Q.I. Press Controls at this year's World Publishing Expo in Amsterdam."



Werner Ringel, CEO

New location and rejuvenation treatment for a "grande dame"

There has been a growing trend in the newspaper market in recent years for existing press equipment to be technically overhauled and modernised. It's not every day, however, that a newspaper web press is transported not only figuratively into the twenty-first century with the help of a retrofit but also literally – over a distance of five hundred miles. This challenging retrofit project would have been impossible without EAE's specific expertise in the fields of press control & automation and control console technology.

If everything had turned out the way it was originally planned, this story would be over already. The debate had been going on for several years: by the end of 2012, the management of newspaper publisher Märkisches Verlags- und Druckhaus (MVD) had all but decided to shut down its in-house print shop in Frankfurt / Oder, Germany, and instead have its newspapers and weeklies produced by a contract printer. The company's three web presses were gradually getting on in years and the security of production was jeopardised. What's more, in contrast to the equipment at MVD's other site in Oranienburg (see inset) they were not able to meet modern requirements by printing in full colour throughout because of the configuration of the printing units.



Manroland GEOMAN press at MVD

Retrofit option fits the production site for the future The alternative for closing down the print shop on the Polish border arose as a result of a change initiated by Neue Pressegesellschaft,

About MVD

Märkisches Verlags- und Druckhaus GmbH & Co. KG (MVD) of Frankfurt / Oder became a wholly owned subsidiary of Neue Pressegesellschaft mbH & Co. KG (which had previously held a fifty percent share) at the end of 2012. The company has been responsible for publishing and printing the Oranienburger Generalanzeiger in Oranienburg (22 miles north of Berlin) since 2011 and its portfolio includes daily newspapers for the East and North Brandenburg region with an overall circulation of 122,000. It also prints ad journals totalling 1.2 million copies twice a week for East, West and North Brandenburg. Mail and postal services (Märkische Post) as well as commercial radio are other business segments of MVD.

The MVD print shop in Frankfurt / Oder produces the daily Märkische Oderzeitung in twelve different editions as well as two weekly ad journals – Märkischer Markt and Märkischer Sonntag – each with a circulation of 350,000. The retrofitted GEOMAN press is designed for a maximum web width of 1400 mm and features two four-high towers, three reel splicers and a folder. It can be used to print up to 32 Rhenish format pages in four colours or 64 pages in half-Rhenish.

The Oranienburger Generalanzeiger and its various local editions are produced at the Oranienburg facility along with two ad journals – Brandenburger Wochenblatt (BRAWO) and Märker – on a KBA Colora newspaper press with two four-high towers and a H printing unit.



the MVD parent in Ulm: manroland GEOMAN web presses there were planned to be replaced by newer technology at Druckhaus Ulm-Oberschwaben in Weingarten, right at the other end of Germany. "It was in this context that we hit on the idea of transferring one of the presses, built in 2000, to our Frankfurt premises because its production capabilities were far superior to those of the equipment we wanted to phase out. We decided to give this GEOMAN a complete retrofit to enable it to carry on operating reliably for another ten years", explains Andreas Simmet, MVD's Managing Director. "We undertook an in-depth calculation to see exactly what it would cost to transport and retrofit the web press. This proved to be a viable solution that was just as attractive as the contract printing option, and the project was given the go-ahead in the spring of 2013 in consultation with Neue Pressegesellschaft. One of its advantages was that most of the jobs at our Frankfurt production site were saved."

"Operating reliably"

The project was scheduled to kick off following the modernisation and extension of the mailroom technology and presented some daunting challenges to everyone involved. Amongst other things, all the necessary work at the newspaper print shop in Frankfurt had to be carried out on the existing equipment without effecting the day-to-day production. The first of the three web presses there was dismantled in October and November 2013 to make room for the GEOMAN. The old concrete structure was then removed and a new one put in its place as a foundation for the "new" web press weighing more than two hundred tons upfront of the actual installation and retrofit. All of this had to be completed within a very narrow time frame.

Experienced retrofit experts at work

MVD awarded the relocation and retrofit project to PrintHouseService GmbH as general contractor and its cooperation partner EAE Engineering Automation Electronics GmbH as a recognised expert for press control and automation. EAE was charged with upgrading the web press with the latest control and network technology as well as two EAE Baltic Star control consoles. Simmet: "This joint venture makes excellent sense in our opinion because PrintHouseService is very competitive when it comes to heavy machinery and mechanical components whereas EAE is highly qualified in the field of press control and automation technology". These particular qualifications were important in this third-party retrofit project in which a PECOM control system was replaced with modern technology made by EAE.

The documentation for the original press control system was inconsistent, which meant EAE was obliged to carry out a complicated on-site audit to facilitate a detailed breakdown of the existing hardware and software. However, EAE's engineers were able to draw on extensive experience – both as a supplier of original EAE equipment for precisely this press model and based on other thirdparty retrofits. Based on the results of their analysis the Ahrensburg specialists designed the new control system. Thanks to a whole series of in-house system tests, they had no trouble keeping to the



Fltr: Mr. Simmet (MOZ) Mr. Mischke (MOZ) Mr. Torneden (PHS) Mr. Ringel (EAE) Mr. Huse (EAE) Above fltr: Mr. von Koll (IE) Mr. Valentin (PHS) Mr. Brackvogel (SWP)

specified deadlines during the implementation phase at the Frankfurt / Oder plant. According to Werner Ringel, Managing Director of EAE, as many as twenty staff collaborated on the project at peak periods.

Cross-site production planning by EAE

EAE was also able to offer the customer one very specific benefit. The KBA Colora web press in use at the media company's second print shop in Oranienburg was already equipped with EAE press controls and an EAE PRINT system for production planning and presets. After being relocated to Frankfurt / Oder, the GEOMAN was linked up to this system. A highly integrated system that can be utilised across different sites is now available; it provides rich planning and preset features for both the GEOMAN in Frankfurt / Oder and the Colora in Oranienburg – and even calculates the ink presets on the basis of the RIPped page separation data.

"Executed extremely professionally and successfully"

Following the arrival of the GEOMAN web press in the second week of February 2014 things had to move very fast. The press was installed in just three weeks in a joint effort by PrintHouseService and EAE. The GEOMAN was simultaneously fitted with state-of-the-art electronic EAE control components and consoles with touch screen operation. A four-week commissioning phase then ensued, during which all system functions were tried and tested in practice and the operator team familiarised with both the GEOMAN and the new press control system. "We kept up our daily production on the two old presses with reduced manpower while the remainder of our printers were attending training by EAE technicians", reports print shop manager Stefan Mischke. "Of course, the operating concept was new ground for our team but thanks to the professional guidance of EAE's experts and the much more user friendly interface of the new press control system, they were soon in a position to print any job without assistance."

The retrofitted web press was officially put into operation on April 13, 2014 with the Monday issue of the Märkische Oderzeitung and its various editions. EAE technicians subsequently supervised all production runs for another week or so and the entire installation has been working without any problems ever since.

"All in all, this project was executed extremely professionally and successfully. Despite the difficult situation our company was in at the time, the cooperation with EAE went very well", Simmet confirms. "We now have a press where the mechanical components and the control system are in top condition, and secure production is guaranteed."



The EAE operator desk at MVD after retrofit



In a perfect solution, the whole is always more than the sum of its component parts

In the international newspaper and commercial printing industry EAE is highly reputed as a developer and supplier of premium solutions for press control and automation. The company offers a broad portfolio of products and services for integrating all web press control components – from reel stands and printing units to folders. Overall EAE's expertise includes complete management systems, which are connected via standard interfaces to front-end applications like page production in the publishing department, plate making or a corporate ERP system as well as to the mailroom technology at the other end of the print production line.

"Thanks to its modular philosophy"

Thanks to its modular philosophy, EAE can design and implement made-to-measure solutions both as original equipment for new



presses and as press retrofits. Virtually every EAE system is undergoing a continuous software development taking actual customer requirements into account.

Press control and automation technology as the core competency

Press control and desk console technologies are classic core competencies of EAE. Entire web presses are fitted with controls based on the newest generation of distributed PLC technology, completed in the EAE desk console. The console is available in different models, including some with touch screens. Both during press setup and throughout the production process it enables all remotely controlled and automated functions on a press or press section to be controlled and visualised centrally. For example, it is also possible to integrate an in-line colour measuring and control system in the control console technology.

"Over 120 retrofit projects worldwide"

With its stand-alone Print system, EAE steps in even before the actual printing begins. This production planning and presetting system is offered in various configurations. EAE Print, for instance, supports presetting functions such as web tension, dampening, inking (ink zones), registers or turner bars. Bidirectional interfaces let EAE Print exchange information with the publishing and prepress workflow and for example copy relevant meta data on production or ink zone presets from the editorial system. Likewise, also information needed for plate IDs can be provided to CTP.

Retrofits made by EAE

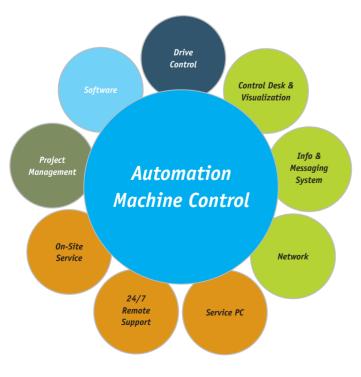
The above-mentioned excerpts from the EAE product portfolio are significant for a key business segment in which EAE has been actively involved for about ten years, namely press retrofits. "The main motivation for modernising a press that is, say twenty years old, is to maintain or restore production reliability and to avoid the costs associated with press downtime and productivity loss", explains Marcel Wollgramm, Key Account Manager at EAE. "Another possible reason might be that the customer is seeking more sophisticated and more user friendly systems, new interfaces or a better connection to subsystems, possibly as a preliminary step to functional enhancements or quality improvements on the press."

The desire for a retrofit tends to manifest itself as repairs and maintenance become increasingly expensive and frequent. It is

Mr. Marcel Wollgramm

important to know that the various press components have very different life cycles. The PC systems, for example, are generally due for replacement after five to seven years while controls and drives will last for anything between eight and twelve years. EAE's service experts provide a range of special services, such as on-site analyses of the overall press control system lasting several days, to help document the actual situation. If necessary, they can also check the Arcnet network, which is used for communication between all control system components and the control consoles.

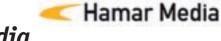
EAE differentiates between retrofits for existing EAE installations on any press model and third-party retrofits for presses equipped with non-EAE control systems which the customer now wishes to modernise with the very latest EAE technology. Regardless of the individual configuration, preventing disruptions to the client's production process is a top priority of all retrofit activities undertaken by EAE experts.



Know-how, innovative vitality and experience

A high level of expertise when it comes to retrofit projects is the product of knowhow, innovative vitality and experience. EAE has it all and not in the least extensive experience: the press control and automation specialist for Ahrensburg, near Hamburg (Germany), has already completed over 120 retrofit projects worldwide on a variety of press brands and models. This diversity is also reflected in EAE's impressive list of recent project successes:

- Retrofit of a Siemens PLC on a Cerutti rotogravure press at Burda in Offenburg.
- Quality retrofit on a manroland UNIMAN in Detmold.
- Retrofit of the desk control PC on a KBA Colora in Buffalo, USA.
- Retrofit of the complete desk and control levels on six sections of a manroland Colorman at Axel Springer in Essen-Kettwig.
- Retrofit of the desk and control levels on a GOSS Universal in Ikast, Denmark.



EAE secures retrofit order from Hamar Media

EAE of Ahrensburg (Germany) has just secured yet another major retrofit order, this time from Norway: Hamar Media AS has chosen the press control and automation specialist to modernise its pressroom equipment. Hamar Media, located at Hamar some 140 kilometres North of Oslo, is a leading Norwegian provider of printing and media services. The newspaper printing division of Hamar Media AS produces Hamar Arbeiderblad, one of the country's oldest dailies which is published six days a week with a circulation of 25,000. A thriceweekly local newspaper (circulation: 3,500), a weekly newspaper for the nearby municipality of Stange (circulation: 3,000) and two weekly publications (Gjøviks Blad and Totens Blad, each with 15,000 copies) are likewise printed at the Hamar town-centre site. Various free newspapers and ad journals inserted into the main products round off the printing portfolio.

"Stay productive for another ten years"

EAE's latest order represents the first step in the renewal of the complete electronic control system for the newspaper web offset press installed at the Hamar Media facility. The retrofit project specifically concerns a Clauberg Colorstar CC 4/2, which is designed to print products with a maximum of 96 tabloid pages. The main components are three MEG reel stands, two four-high towers plus a separate Manroland UNIMAN tower with two Y printing units and a folder. Built in 2002 and commissioned on June 1, 2003, the press was originally shipped with a control system based on distributed PLC technology, industrial PCs and two control consoles – all from EAE.

The retrofit order was triggered by a number of factors. As Jon Hegge, Production Manager at Hamar Media AS, points out, the press control was getting on in years and gradually causing more and more problems. The risks for newspaper production – from brief interruptions to lost productivity – were no longer acceptable. The discontinuation of support by the respective manufacturers for the Windows PC operating systems and various electronic components was the final straw. The availability of suitable spare parts and replacement PCs was jeopardised. "In March 2014 we decided to have the entire control technology for our web press, which was still in good technical condition, upgraded", Hegge continues. He has worked in the printing industry since 1969 and joined Hamar Media back in 2001. "We were hoping it would then stay productive for another ten years at least. Our web press has to keep going without a hitch or else we're lost."

Retrofit - custom-made in every respect

The customer didn't have to think long before placing the order with

EAE. After all, no-one other than the Ahrensburg retrofit experts would be capable of completing the project in the way Hamar Media wanted. Step-by-step retrofitting – a proven method – was chosen for this purpose. The web press will be modernised in a series of independent steps to be carried out at appropriate intervals. This has the advantage that disruptions to the customer's production process are restricted to a minimum. It also means the total investment in the retrofit is spread over a longer period. "We already had EAE control consoles and press control technology, and we were convinced EAE offers the best solution from both a technical and a commercial perspective", Hegge adds.

EAE will replace the computers for the press control consoles, the section control and the reporting system and swap the existing SBC 4 and SBCE4x control hardware for significantly more powerful EPC2020 and EPCE206x control system components with compatible dimensions and connections.

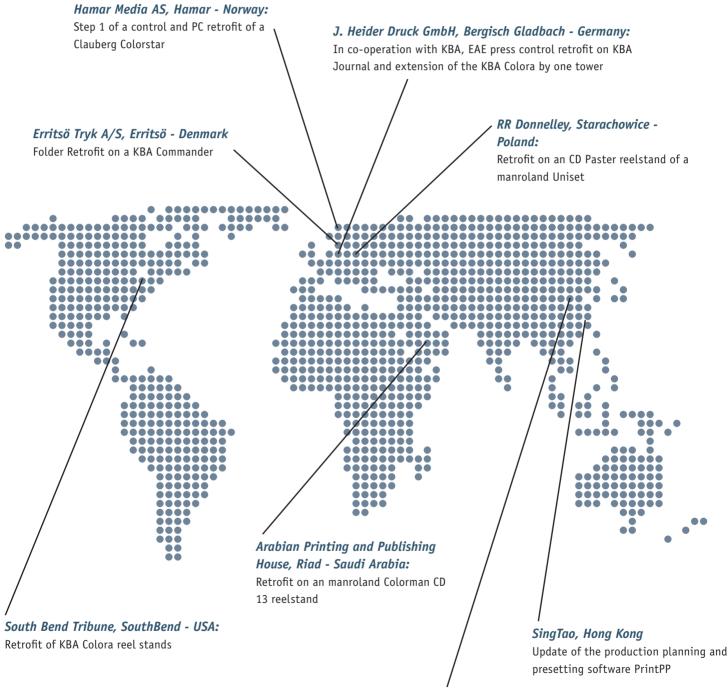
"It's like any other project of this kind: the challenge facing us is to modernise the equipment in the midst of normal production. Our activities must not interfere with the client's daily work in any way", explains Dirk Lüdken, Sales & Marketing Director at EAE. "When we developed the concept, our aim was to replace the most critical components first and have sufficient spare parts available for the other subassemblies whose turn it will be later."

"We've known EAE for more than ten years now as a reliable, reputable partner that gives us top-quality solutions. That's why we're in no doubt that we took the right decision with the retrofit contract", says Hegge, summing up. The first phase of the retrofit is scheduled to begin in October and will be finished in the fourth quarter of 2014. More project steps are due to take place over the next two years. By 2016, the complete web press at the Hamar site will hopefully have been upgraded to the latest control technology generation.



Mr. Jon Hegge, Production Manager at Hamar Media AS

Worldwide orders EAE



People's Daily, Beijing - China:

EAE delivers a complete press control system and PrintPP for a new Goss Universal 75