



HELIOGRAPH

- Special promotion:
3M Polishing Bands!

DAETWYLER

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OHIO

- The dream of every gravure printing specialist
- Now available: Xitron RIP for Collage

PARTNERS & FRIENDS

- Lüscher Technologies: Two new customers are world market leaders

OHIO: The dream of every gravure printing specialist



Hybrid edge reinforcement for tonal values

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HELIOGRAPH: Special promotion - 3M Polishing Bands!



Order now and benefit from the highest possible polishing performance

For some time now, high-quality polishing bands made by 3M have been successfully used throughout the world by the Heliograph Holding, 3M's sales and process partner.

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Acknowledgment and incentive for successful product development

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Special promotion: 3M Polishing Bands!

Order now and benefit from the highest possible polishing performance

For some time now, high-quality polishing bands made by 3M have been successfully used throughout the world by the Heliograph Holding, 3M's sales and process partner. Now, we want our users to benefit with this special promotion*!



The Heliograph Holding's certified polishing bands represent the highest quality of copper and chromium cylinder polishing and are available in all well-known grains. These polishing bands are also included with new purchases of our CFM and Finishstar. In detail, the certified polishing bands provide the following benefits:

- Highest polishing performance
- High process reliability
- Long service life
- Precise band guidance due to optimally coordinated construction

These are all convincing arguments that speak for the use of our polishing bands. In addition, our specialists support you with extensive knowledge and many years of experience. If desired, they can create process-optimized polishing programs that meet your specific requirements.

* Scope of promotion

We give you a **one-time** gift of 2 rolls (100 mm band) or 1 roll (200 mm band) when you place an order with us by March 31, 2014. This applies to:

- A minimum order quantity of 6 pieces 100 mm band and 3 pieces 200 mm band (packaging unit)
- Orders from a member of the Heliograph Holding or one of its partners
- 3M polishing band (100 mm or 200 mm width)
- As long as supplies last and we carry the product



Heliograph polishing bands: high process reliability with highest polishing performance



Laser User Group Meeting 2013

Daetwyler Graphics AG put on a two-day industry event

Like every year, many renowned companies in the packaging, decorative and illustration prepress markets responded to the invitation from Daetwyler Graphics. This time, the widely recognized event focused on pulsed fiber laser technology.



Live demonstration in the production facilities at Janoschka in Kippenheim, Germany

When Daetwyler Graphics – the competence center for laser engraving systems – sends out an invitation to this industry event, everyone jumps at the opportunity to attend. The meeting gives industry professionals extensive opportunities to network and exchange experiences and is also the innovation forum for laser technology.

The Laser User Group Meeting 2013 started at Janoschka in Kippenheim. Live demonstrations during the company tour provided the optimal starting point for discussing the current state of the technology, of which some 20 customers could clearly convince themselves. After all, Janoschka operates a total of seven laser systems for a wide variety of imaging processes at its Southern German location. Over 11,000 laser

cylinders for gravure printing and embossing are manufactured here yearly – a good reference for the Daetwyler Laserstar 1610 PFL and the world market-leading expertise of our company in machinery for the printing industry.



Participants at the lecture on pulse fiber lasers

Figures, facts and data on pulse fiber lasers were available the next day in the Europapark Rust conference center. The lively discussions during this two-day event resulted in a very positive responses from all attendees – as well as a new order for Daetwyler shortly thereafter.



Daetwyler Graphics executes ambitious project in Lebanon at Al-Moutahed & UCPP Group

Prompt installation of complete cylinder manufacturing line

Daetwyler's service technicians put on quite a performance: Together with highly motivated local personnel of below mentioned Lebanese group, the ordered manufacturing line was production-ready in only three weeks.

Of course, they had complete support from the experienced project managers in Bleienbach. But it was still quite a job to install an entirely new cylinder manufacturing line at the group of Al-Moutahed Co sal & UCPP sarl headquarters close to Beirut so quickly. Fadi Abdallah, Managing Director of the established family-owned flexible packaging company, said: "After this fantastic work, we can already start thinking about new ambitious goals."

The innovative cylinder manufacturing line uses machines from Daetwyler Graphics, a CFM and a Finishstar as well as K.Walter electroplating systems and an OHIO Spectrum engraver.

The customer is very satisfied with his decision. Fadi Abdallah: "We chose Daetwyler Graphics for our in-house cylinder manufacturing line due to increasing demands from our customers on quality and flexibility coupled with constantly decreasing processing times." This is certainly a great endorsement for the installation team. With this project, Daetwyler Graphics proves once again that it's the right partner for the gravure cylinder industry.



Laser-sharp line screens

Cellaxy increases laser engraving performance

In recent years, Cellaxy has been available exclusively for embossing applications. At the explicit request of customers, HELL now offers Cellaxy for linework applications in packaging printing.

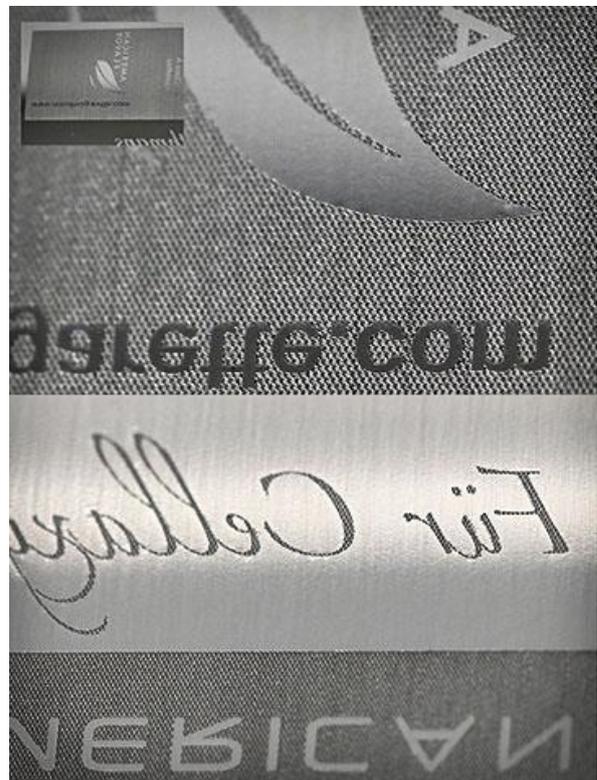
Cellaxy doesn't simply convince with its performance. Its seamless workflow integration in the HELL packaging family ensures the full compatibility of the engraving screen. Of course, freely designed grid patterns such as hexagons can also be easily created and used.

The HELL JobTicket workflow and Cellaxy's high degree of automation enable simple, safe one-button operation.

The real Cellaxy highlight, however, is the still unmatched performance of HELL laser engraving. Today, a standard copper packaging cylinder with an engraving surface of 0.7m² and engraving depth of 30µm can be engraved in 90 minutes. And although this performance is very good, HELL has now significantly improved it. Recently, Cellaxy has begun beta-testing its newly developed 'Performance Package'. The next issue of this newsletter will include detailed information on this project.

After successful laser engraving, a cylinder must be prepared for chrome plating. Together with K.Walter, HELL has developed an innovative laser finishing procedure to accomplish this. All copper cylinders lasered with Cellaxy, with no

exception, can be chrome plated. This high process reliability is the basis of our customers' success. HELL thus offers Cellaxy exclusively in combination with the K.Walter 'LaserFinishing-Maschine' (LFM). When the components are set up, the company provides machine training as well as assistance during the entire process of optimally and safely producing lasered cylinders. HELL not only provides optimal advice before the customer's purchase, but afterwards as well – and when needed, with a professional service and application team.



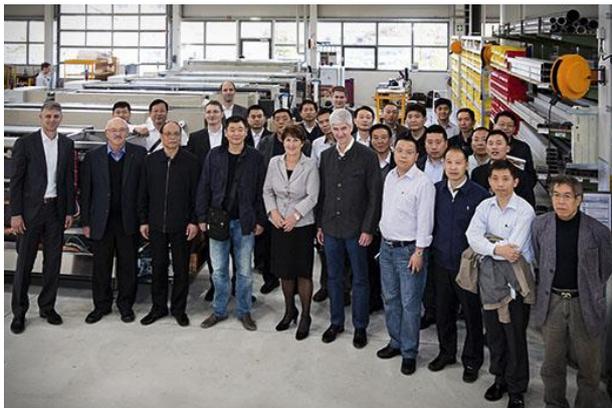
Laser-sharp line screens, perfectly chrome-plated



High-level visit from China

K.Walter hosts 20-member delegation

Chinese Weeks in Krailing: Late last year, the owner of the world's largest cylinder manufacturing company visited the K.Walter headquarters. Liu Keli, his son Liu Wuqiang and the heads of the most important branch offices of Shanxi Yuncheng Plate-Making Group Co., Ltd. informed themselves about cutting-edge gravure technology at various companies of the Heliograph Holding.



The delegation of the Yuncheng Group was greeted in Krailing by mayor Christine Borst and the K.Walter management

During their two-week trip, the Chinese managers and Liu Keli were impressed by the performance of European gravure technology. The Shanxi Yuncheng Plate-Making Group Co., Ltd. is a highly impressive company itself. The international Group was founded in 1984 and maintains branch offices throughout the world from its headquarters in Yuncheng in Shanxi province. The Yuncheng Group is one of the top 100 com-

panies in China and is considered to be the world's largest cylinder manufacturer.

All together, the Chinese delegation was on the road for two weeks. Among other places, it visited Schepers in Vreden and Bauer Logistik in Hohenlockstedt. The third station was HELL Gravure Systems in Kiel. At the end of this "information marathon", the group visited the production facilities of K. Walter in Krailing and Daetwyler Graphics in Bleienbach, Switzerland. The focus of the Chinese experts always remained on technology, systems and processes. After all, the Yuncheng Group has achieved the world's leading market position due to its own high demands on quality.

For the Heliograph Holding, one positive result of the tour was that in addition to extensive technical discussions, the Chinese delegation used the opportunity to go on a small "shopping spree". It ordered further systems to supplement the HELL engraving systems previously installed in Yuncheng and other branch offices. In addition to these HELL systems, equipment from Schepers, Daetwyler Graphics, K.Walter and Bauer Logistik will soon begin their journey to China as well.



Precision measurement

Innovative technology for quality assurance under production conditions

In the Heliograph Holding, K.Walter is the competence center for optimal production conditions that result from stable operating processes. In addition, the specialists from Krailing offer a broad spectrum of high-quality measurement technology as well.

K.Walter's many years of experience with complex galvanic processes in the manufacture of gravure cylinders have gone into the development of its measurement instruments. These include:



DuroMet

Easy-to-handle device for high-precision measurement of copper and chrome hardness of gravure cylinders.



R-Met

Compact instrument for determining maximum and average roughness; can be used with various cylinder circumferences. Comes with integrated printer.



R-Met eco

Robust measuring instrument for easy measurement of surface roughness of gravure cylinders. Suitable for various circumferences.



DiaMet

Measurement instrument with optimal rest on cylinder and optimized scanning for measuring circumference and diameter.



HeliMet

Easy-to-handle measuring instrument for non-destructive determination of the engravability of gravure cylinders with the eddy current method.



MicroMet

Handy measuring instrument for high-precision, non-destructive measurement of copper and chrome layer thickness of gravure cylinders.



VideoMet

Compact measuring instrument for gravure cylinders; has freely controllable focus and zoom to 2D and 3D cell analysis for the determination of actual cell depth and volume.



Schepers Digilas wins innovation prize

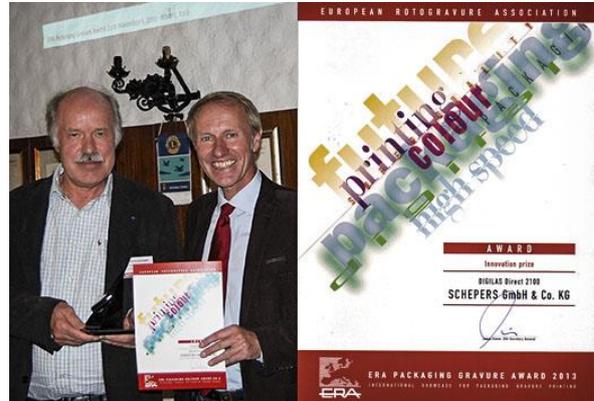
Acknowledgment and incentive for successful product development

The new Digilas Direct 2100 was developed for small cylinders and the especially high requirements of the security and electronic printing branches. The amount of development effort was well worth it because Schepers received the Innovation Award 2013 of the European Rotogravure Association (ERA) for its achievement.



The new Digilas Direct 2100

The ERA jurors rated the performance and potential of the new Digilas Direct 2100 as exceptionally good and thus decided to give Schepers GmbH & Co the Innovation Award 2013. Hans-Georg Schepers, Managing Director, accepted the award at the ERA Packaging and Decorative Conference in Novara from James Siever, the General Secretary of the ERA.



James Siever, the General Secretary of the ERA, hands over the Innovation Award 2013 of the ERA to Hans-Georg Schepers

For Schepers, this distinction from the ERA is both confirmation and incentive to continue its successful development strategies of recent years. New technologies, after all, open new markets. Schepers has impressively proved this with the Digilas Direct 2100. One of the reasons for its success is certainly the versatility it provides. Only a few months after its introduction, a slightly modified form of this system conquered additional markets in the areas of micro-embossing, microtext intaglio, Tampoprint® and pharmaceuticals. Its modular construction allows relatively simple adaptation of the small but highly effective machine to different requirements. The first system has been delivered, the second is under construction and two additional ones are on the drawing board.



The dream of every gravure printing specialist

Hybrid edge reinforcement for tonal values

The Ohio Hybrid Engraving System is ideal for improving linework on tonal value backgrounds and significantly shortens engraving times as well. The newest version perfectly renders cleaner and smoother text, even in lower engraving screens.

The current version of the Hybrid System for Collage and the Spectrum engraver simplifies operation and simultaneously provides more features. These include such options as representing text on tonal values or improving text that has no solid density. Characters appear darker and thus cleaner. This is true for negatively colored text on tonal values as well as positive text. The Ohio Hybrid System has several new functions.

It allows the operator to specify how many cells are affected and to what degree Hybrid should be used, for example. This provides results similar to edge sharpening, although the outcome is much better due to the additional hybrid edge sharpening.

For positive text on tonal values – similar to edge sharpening – the background tone value along the text edge is reduced. This gives characters better edge contrast. The hybrid edge sharpening process affects the text edges, making the characters appear cleaner.

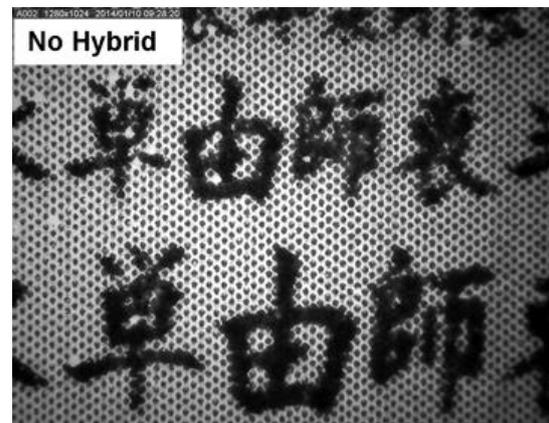
This procedure is reversed in negative text printing. To improve the contrast, the number of tonal

value edge cells is increased and the cells with hybrid edge sharpening are changed. This gives the negative character a cleaner appearance.

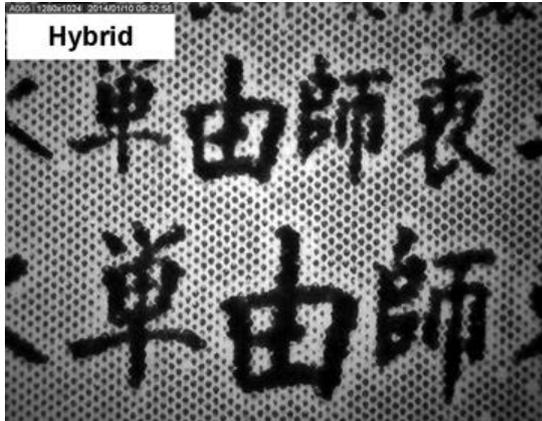
In both cases, the operator can limit the degree of the hybrid effect. The software automatically compensates for the differences between the text and tonal values. This ensures that the result is not too exaggerated.

Further information on the Hybrid Engraving System is available from your Ohio GT representative or from Ohio GT at sales@ohiogt.com.

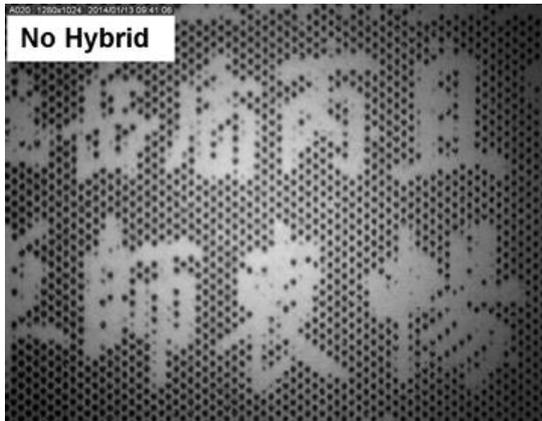
These images show gravure printing of the same original image with and without Hybrid. In both, the positive and negative text are on a 30% tone background.



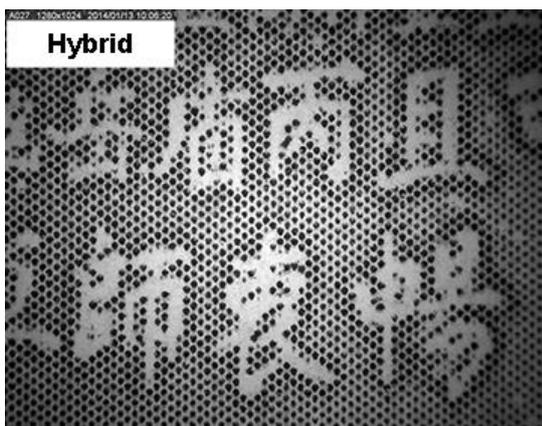
Positive text without Hybrid Engraving



Positive text with Hybrid Engraving



Negative text without Hybrid Engraving



Negative text with Hybrid Engraving



Now available: Xitron RIP for Collage

We're delighted to announce enhanced performance

At Ohio Gravure Technologies, we continuously optimize our products. This lets us respond to changing market conditions and meet the needs of our customers at all times.

Most recently, we increased the performance of our Collage layout systems, for example. As of Version 4.1, Collage is optionally available with the Xitron Harlequin Navigator RIP v9/10.

The Xitron Raster Image Processors now hold a leading market position and are used in nearly all output devices. The additional Ohio GT RIP plugin enables the Xitron RIP to transform any PDF or PostScript file into the Collage format and thus fulfill the special requirements of gravure printing.

All new Collage customers automatically receive the Xitron RIP. As of Version 3.x, existing customers can integrate the Xitron RIP in their Collage systems. For further information, please contact your sales representative or Ohio customer service.



Lüscher Technologies: Two new customers are world market leaders

Convincing security printing from Lüscher Technologies

Contracts for four XPose T-Flex 230 HighRes systems have just been closed with the two worldwide leading solution providers in Security ID Cards (Identity Cards, Driving Licenses): Sagem Morpho in Holland and Gemalto SA in France.

Two of these systems have been successfully installed in India and Brazil. They are now producing offset and letterpress plates with a resolution of up to 8000 dpi – to the customers' complete satisfaction. In coming weeks, two additional XPose T-Flex 230 HighRes systems will be set up in Nigeria and Poland. For both customers, the biggest advantage of this system is that Lüscher Technologies AG is the only manufacturer that offers so-called hybrid technology, which uses diode lasers for the highest quality exposure of conventional offset plates and letterpress plates on a single machine. To increase protection against counterfeiting, manufacturers of secure documents are turning more and more to the most sophisticated and finest designs, which require high-resolution printing plates to reproduce fine guilloche patterns without quality loss. We are very confident that Lüscher Technologies AG will soon achieve further sales successes in this growing area.