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HELIOGRAPH

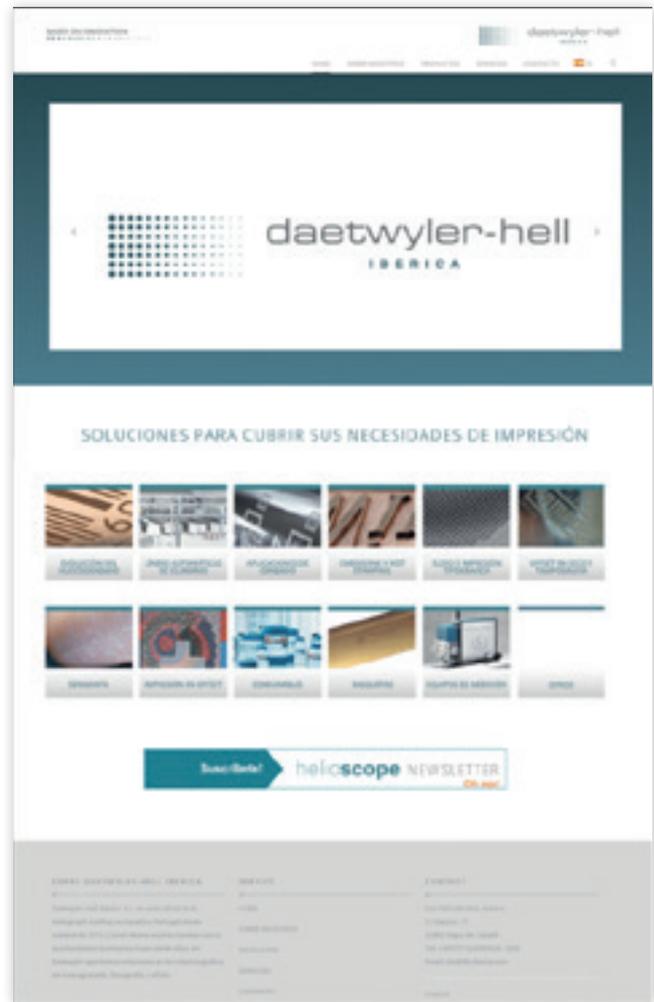
## NEW SALES WEBSITE OFFERS GREAT VALUE

[www.dh-iberica.com](http://www.dh-iberica.com) goes online

**Daetwyler-Hell Iberica, the Heliograph Group’s Spanish branch, is launching its own website under [www.dh-iberica.com](http://www.dh-iberica.com). The website, designed in the modern, clear Heliograph look, offers a number of decisive advantages for customers, who can now easily and conveniently find the information they need. The website, which is available in Spanish, Catalan and English, is responsive and thus suitable for various end-devices such as smartphones and tablets.**

The new online offer is embedded in the Heliograph web framework and provides quick access to the Group’s entire portfolio of products and services. It also contains valuable information on other products sold by Daetwyler-Hell Iberica in Spain such as Daetwyler SwissTec’s precision blades as well as links to other products that round off and systematically complement Daetwyler-Hell Iberica’s comprehensive range.

Further information is available under:  
[www.dh-iberica.com](http://www.dh-iberica.com)





HELL

## „TOBACCO'S FINEST“

In a class of its own

**Once again the exceptional strengths of Cellaxy come into play, whether it's productivity, cost-efficiency, versatility or precision, and set the standard in direct laser engraving for embossing and packaging printing.**

The Cellaxy laser's screen definition and write resolution can be adjusted independently of each other. For example, text can be reproduced achieving a very high edge definition with a resolution of 2540 dpi and images in a 60 l/cm screen with soft vignettes. In addition, the geometry of the laser-engraved cell enables it to apply more ink than a cell engraved using a diamond stylus. Thanks to these two effects, a gravure form lasered using Cellaxy meets both the toughest contour definition demands and high printing density requirements. Cellaxy can be integrated seamlessly into existing digital prepress operations for HelioKlischograph systems.

The optional embossing module gives Cellaxy all the features it needs to produce impressive embossing forms. A machine equipped for embossing performs fully automated multipass engraving with an engraving depth of up to 1000 µm. Both 2D and 3D embossing forms are produced in the highest possible quality. The print results



### Overview of key benefits:

*Ultra-sharp contours in etching quality with no saw-tooth effect, coupled with smooth and stable color vignettes*

*Embossing option for precise and cost-effective embossing cylinder production thanks to fully automatic multipass engraving*

*Seamless integration into the digital prepress stage for the HelioKlischograph*

achieved with Cellaxy embossing processes are highly impressive thanks to long-lasting tactile qualities and optimum attention to detail. This applies equally to micro-embossing over large areas and background textures.

[www.hell-gravure-systems.com/cellaxy](http://www.hell-gravure-systems.com/cellaxy)



HELL

## HELIOKLISCHOGRAPH K2

New 5 kHz entry-level engraver

**For a simple start in cylinder engraving, HELL now introduces a compact, easy-to-operate HelioKlischograph engraving machine.**

The HelioKlischograph K2 is HELL's new economical engraving machine for a simple start in electromechanical cylinder engraving – "Made in Germany". It features compact construction, easy handling and is equipped with a motor-driven support, an integrated auto-focus camera as well as HELL's 5 kHz CS engraving system. Its maximum engraving ball width of 1400 mm predestines the K2 for engraving hollow cylinders.



*Robust construction, easy operation, speed of up to 5 kHz*



HELL

## CORRECT USAGE OF ENGRAVING STYLI

Know-how films with basic information on diamond tools

### **Despite their great hardness, diamonds must be treated with care.**

Engraving tools must be properly handled for consistent, high-quality engraving results. Although very hard, strict rules must be observed when using engraving styli.

In a number of short films, HELL demonstrates the important procedures needed with engraving systems, styli, scrapers, and sliding feet. All films are available in the download area of HELL's website:

[www.hell-gravure-systems.com/service/downloads/](http://www.hell-gravure-systems.com/service/downloads/)



*Never touch an engraving diamond with the fingers!*



HELL

## PREMIUMFLEXO®

Repropack, the leading service provider for the Russian market, has used the PremiumSetter S1700 for two years

**Since 2015, Repropack has used the PremiumSetter S1700 to produce engraved elastomeric flexographic printing forms. The company is convinced by the advantages of direct engraving.**

Repropack is by far the leading service house for flexographic printing forms on the Russian market. Equipped with the newest technologies, Repropack produces for over 750 customers at its sites in Moscow, St. Petersburg, Yekaterinburg, Novosibirsk, N. Novgorod and Kiev (Ukraine).

Early on, the company recognized the benefits of direct engraving over photopolymer materials: print resistance, increased color transfer, solvent resistance, and accurate formation of the finest elements in the printing form. True to the company's principle of only offering its customers the very best, it was logical for Repropack to invest in direct engraving.

Today, Vitaly Kovardakov, Technical Director, and Alexey Massarsky, Production Manager, look back on two years of production with the PremiumSetter S1700 and see their early assessment confirmed. "Since start-up of the engraving machine in April 2015, we have seen that the S1700 does justice to even the highest



*Alexey Massarsky, Production Manager of Repropack Moscow*



*Repropack employees are extremely satisfied with the S1700*

demands on printing forms. And this with minimal risks and effort as well as stable, high-quality engraving. The S1700 is also characterized by operational simplicity and handling. We are pleased that we continue to supply our customers quickly and with outstanding results," says Vitaly Kovardakov.

[www.premiumflexo.com](http://www.premiumflexo.com)



HELL

## VERSION TRACKER

Overview of all software versions

**Only one click for current information on HELL software products.**

Do you want to know whether your HELL systems are using the latest software? The version tracker on our website informs you fast by providing a complete overview of old and new software versions. In many cases, a click on the version number yields information on the new functions of the respective software version.

[www.hell-gravure-systems.com/service/versiontracker](http://www.hell-gravure-systems.com/service/versiontracker)



*Always up-to-date with the version tracker!*



OHIO

## THE AUTO-DOCUMENTED CYLINDER

Quality control for cylinders

**Cylinder producers and printers know that a high-quality cylinder is essential for the printing results demanded today. Only OHIO's Spectrum and Prism engravers offer an automatic way to get information for smart decision making. We help you focus on the process.**

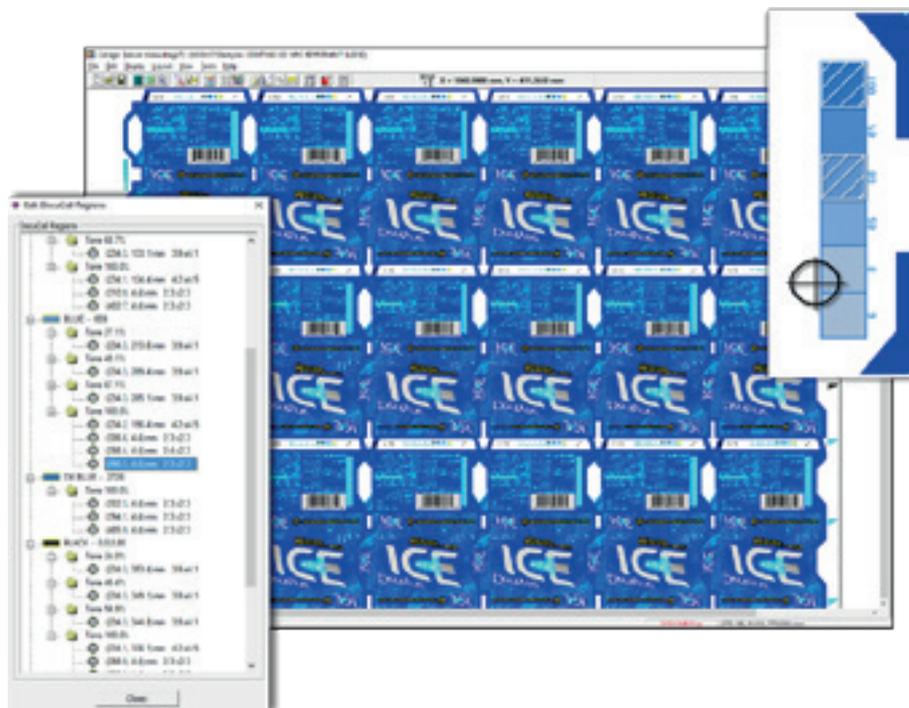
### Cylinder Birth Certificate

All OHIO engravers have always automatically created the Cylinder Birth Certificate, which includes cell data and images. As part of the Auto-Documented Cylinder, we've enhanced the birth certificate with information from DocuCell

and Vital Proof, and the certificate can be emailed to you automatically.

### The DocuCell™ Capturing System

When you manually measure densities on the job and then on the engraved cylinder, you ensure quality but at the cost of time and labor. The DocuCell Capturing System automates this for fast, easy and automatic quality control. The Collage operator identifies areas on the job and the Spectrum or Prism automatically takes cell pictures and measures cell sizes on the fly, then records the information on the Enhanced Birth Certificate.





OHIO

**Vital Proof™ Multi-color System**

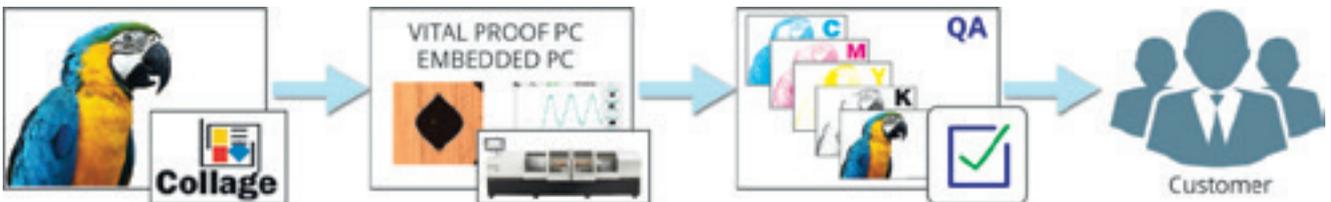
The patented Vital Proof system uses the feedback system of the highly accurate Vision engrave head and compares the engraved result with the original Collage data. Single color “feedback reconstructed” images are sent back to the Collage system. These images can then be overlaid for a composite result. Can the Vital Proof system replace the proof press? Not entirely, but it provides two features all customers are

looking for: lower cost and faster delivery. Vital Proof information is available on the Cylinder Birth Certificate.

**Dashboard Engraver Monitoring**

Check the performance of your OHIO engravers from any device that can access the web: desktop, tablet or smart phone.

[www.ohiagt.com/](http://www.ohiagt.com/)





OHIO

## PRISM ENGRAVER FROM OHIO

The engraver to satisfy a variety of needs

**The PRISM engraver from OHIO has been well-received around the world as an entry level machine with a small footprint. The high productivity, ease of use, and advanced technology of the electronics of the Prism has made it a favorite. Utilizing the same technology and many of the same parts as the Spectrum engraver, the Prism features the best performing, stable and robust Vision 3 head.**



The Vision 3 head engraver standard flexible packaging and decorative images at speeds up to 8,600 cells per second. The popular option of Hybrid Engraving raises the engraving quality even higher. With the Impact Engraving option engrave depths of 90 microns can be achieved. The Vision 3 head with Hybrid and Impact engraving provides unprecedented performance and quality.

The simplicity of manual test cuts on the basic Prism is appreciated by those who are new to gravure. With the Prism Prime, this exceptional engraver steps it up a notch with automated head setup and automatic test cuts. With the newest Vista technology, the Prism Prime offers the one button machine for fast production. The QuickCell system is also available for interactive cell measurement.

The Prism engraver expands your capabilities and potential markets, with its wide screen and stylus range, cylinder sizes, easy setup, fast engrave heads, and specialty engraving options. The Prism and Prism Prime XL version is available for longer cylinders.

We invite you to check the [OhioGT.com](http://OhioGT.com) website for more information on the Prism and all of OHIO's products.

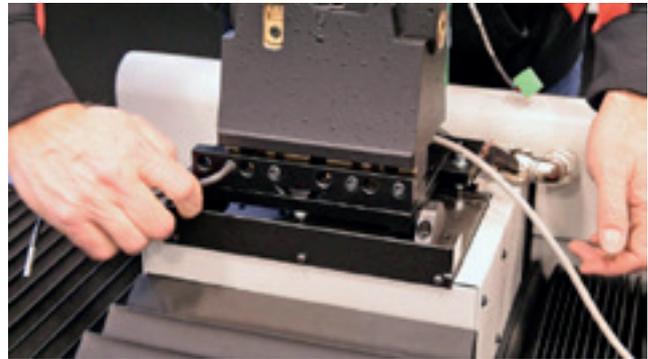


OHIO

## DOCUMENTATION AND TRAINING VIDEOS

The OhioGT.com website includes helpful information

**OHIO's technicians provide excellent training during the installation of engravers and Collage, but sometimes those operators leave the factory or new people are hired later. Some customers have sent new operators to OHIO's facility for training, or arranged for an OHIO training visit on-site.**



Another resource for help and learning is the OhioGT.com website. The Service page provides contact and other information, and at the bottom are links to User Documentation and Training Videos. When there is an update to a manual or parts catalog, it is posted on the Documentation page. We have placed some videos on YouTube, but we are also making these available on our website. As time allows, we will be adding more videos, since a picture is worth a thousand words.

[www.ohiigt.com](http://www.ohiigt.com)



OHIO

## AN EXCLUSIVE INTERVIEW WITH MR. ERIC SERENIUS

Reprint of „Packaging Pakistan“ (Issue July 2017)



**ERIC SERENIUS**  
*President OHIO Gravure Technologies Inc, USA*

### **1) Packaging Pakistan: Please tell us something about yourself and your company?**

The OHIO Gravure Technologies team in Dayton, Ohio USA has been designing and manufacturing engraving equipment since 1980. We have produced a series of first innovations such as our highly versatile engraving heads and automated machines. I joined the team in 1992 as an electrical engineer and now lead OHIO Engraving as President of the company.

### **2) Packaging Pakistan: What is your corporate profile in terms of products and services? Can you tell us about your new products or plans for growth?**

OHIO offers several levels of engraving equipment from the entry-level manually operated Prism engraver, to the semi-automatic Prism Prime, to the fully automatic capable Spectrum. Additionally we have a broad range of robust and stable engraver Heads capable of extreme depths to 300 microns and “laser quality” line work with our Hybrid Engraving . We are also the creators of the Collage Layout system which is an industry standard layout tool capable of driving OHIO, Hell and Daetwyler engravers.

3) Packaging Pakistan: What are the trends that are shaping the printing industry and how do you predict new technologies in the future? Shorter runs, improved edge sharpness, quality assurance, faster delivery and price sensitivity are always drivers for the market. Fortunately, we have new developments which address all of these issues as described below.

### **4) Packaging Pakistan: Maintaining quality standards can help you in gaining a competitive edge in the industry. In a nutshell, how do you ensure that high standards are maintained in your operations?**



OHIO

Excellence requires clarity of purpose. Prior to 2012 while part of Daetwyler, we focused on engineering, but OHIO was restructured in 2012 and has since been responsible for all aspects of the OHIO / Gravostar product line. We now have 100% clarity of purpose, own all issues and seek direct customer interaction. We have been fortunate to retain our key staff in engineering, manufacturing and customer support over the years with an average tenure of 20 years. We take all field failures very seriously and consider them opportunities for improvement. Our machines run 24 / 7 and last for decades. We embrace specialization and therefore outsource our non-core components in manufacturing. This allows us to focus on our expertise, high-precision engraving. We have a performance metrics system which brings internal responsibility and monitors every installed machine.

**5) Packaging Pakistan: Research & Development has become an essential element in almost every industry. To what extent do you rely on conducting the research and how important it is for market penetration?**

Ideas fuel our company and customer interaction is the driver for the entire creative process. Their needs are the seeds of our new ideas and solutions. Over half of our staff is active on engineering development projects. Recent developments include expanding our engraver portfolio to cover the range of manual operation with the Prism, semi-automation with the Prism Prime and full automation with the Spec-

trum. Hybrid and Vital Proof are our other significant developments and are described below.

**6) Packaging Pakistan: Industry 4.0 is leading future trend. What is your Company's strategy to meet future demands?**

Industry 4.0 frames the challenge of an interconnected and self-monitoring factory. OHIO is currently releasing three products that are 100% aligned with this mission: Vital Proof, DocuCell™ and the OHIO Dashboard. Vital Proof is a system that measures and assigns a print density to every engraved cell (described in #10 below). DocuCell allows the customer to pre-select any areas where the cell sizes will be measured for quality control purposes. The measurements of these selected cells are done on-the-fly while the cylinder is being engraved (no added time or steps). Vital Proof and DocuCell are coupled with the test cut data to create our Enhanced Birth Certificate for a complete Self-Documented Cylinder!! Additionally, we have developed the OHIO Dashboard which makes the engraver metrics available via the web. Metrics include the number of cylinders produced daily, weekly, monthly and annually. It also provides links the Enhanced Birth Certificates that, again, brings data to the outside world to enable informed decision making. OHIO is clearly leading the Industry 4.0 charge.

**7) Packaging Pakistan: What are the key factors that give your Company a competitive edge over others in the industry?**

OHIO is a very focused and experienced team



OHIO

of engineers, manufacturing and application specialists. We are also a creative and nimble group capable of delivering customizable solutions for our customers. Our only focus is the gravure market, so our efforts are not diluted with mixed goals.

**8) Packaging Pakistan: How do you find the potential of Pakistan market in the printing industry? How do you rate its prospects in the near future?**

The market has tremendous potential and will grow with the rapidly expanding Pakistani middle class. We have been very impressed with every customer we visited. They are all extremely professional, entrepreneurial and are eager to gain a benefit for their customers.

**9) Packaging Pakistan: Can you tell us a bit about hybrid engraving technologies?**

OHIO's Hybrid Engraving System is a unique technology that uses the standard known electro-mechanical (EM) cell shape, but shifts the cells at the edge boundaries to eliminate the saw-tooth edge associated with EM. Hybrid engraves both the CT and LW in a single operation for a more accurate and detailed representation of the original artwork. Printers love it because it requires no adjustment in the press since it is the standard cell shape with shifting at the edges (not true of competitive technologies) and provides an easily seen quality improvement with great ink volume.

**10) Anything you would like to share, comment or recommend at the end.**

We believe that OHIO's concept of the auto-documented cylinder is revolutionary. Vital Proof is the gateway to eliminating the proof press; can you imagine the time and money saved! For you technical junkies ... Vital Proof digitizes the depth signal associated with each cell and converts this into a density for each cell (or pixel). These pixels are built rev-by-rev in real-time to reconstruct the actual image being engraved. These images are then overlaid for a composite image just like the proof press, only better because it is digital and therefore quantitative. Visit [ohiogt.com](http://ohiogt.com) and 3P in Lahore for more details on Vital Proof.



SCHEPERS

## TURBO ENGRAVING DATA

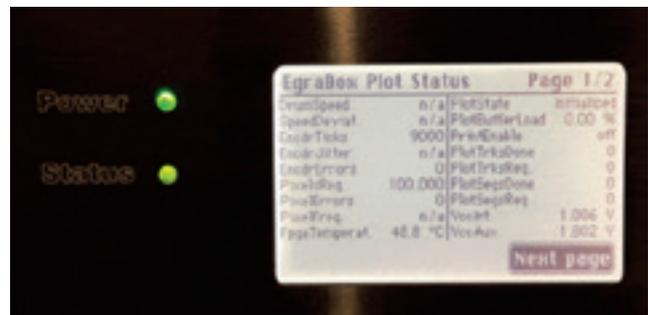
The new EgraBox optimizes the performance of old and new Schepers systems

**Schepers' development team set itself an ambitious goal: Attaining cutting-edge innovations for the latest trends – yet simultaneously ensuring that existing systems benefit from the latest technology. The results speak for themselves – the new EgraBox for engraving-data output convinces with high data throughput and gives old systems access to the most modern functions.**

Customer feedback on Schepers systems was a key input during the development of the new EgraBox for engraving-data output. A successful symbiosis of self-developed hardware and software, it underscores the competence of Schepers development experts. The new EgraBox processes eight times as much data per unit of time than its predecessors. It can now incorporate up to 16 bit, which in the future will allow extremely detailed 3D templates to be processed – of great interest for ongoing research projects, for example. Another advantage is that the box holds completely new possibilities for remote maintenance and faster diagnoses than before. This helps minimize long and costly downtime. In addition, the Linux operating system ensures significantly higher system security.

The EgraBox is now part of every new system – customers benefit immediately from its many advantages.

But not only new systems with an integrated EgraBox work at a technically much higher level. Because of its backward compatibility with old systems, it is also highly advantageous for these. With software updates and a conversion upgrade package, existing machines that still run with ArtCom controls obtain new functions that were



*EgraBox: Simple, fast handling plus higher performance*



## SCHEPERS

not previously possible. Up to eight laser beams can now be applied; beam offset is likewise an option. EgraBox simultaneously facilitates the permanent delivery of spare parts to old systems.

In summary, Scheper has fulfilled its mission. The EgraBox with its technical innovations ensures much higher performance in new and existing systems, and prepares them for future requirements in the gravure printing industry. The Schepers consulting team is happy to answer all questions under the telephone number +49 (0) 2564 95050.



SCHEPERS

## EVERYTHING IN VIEW

Schepers' new „video surveillance“ and „push notification“ features save valuable time and resources

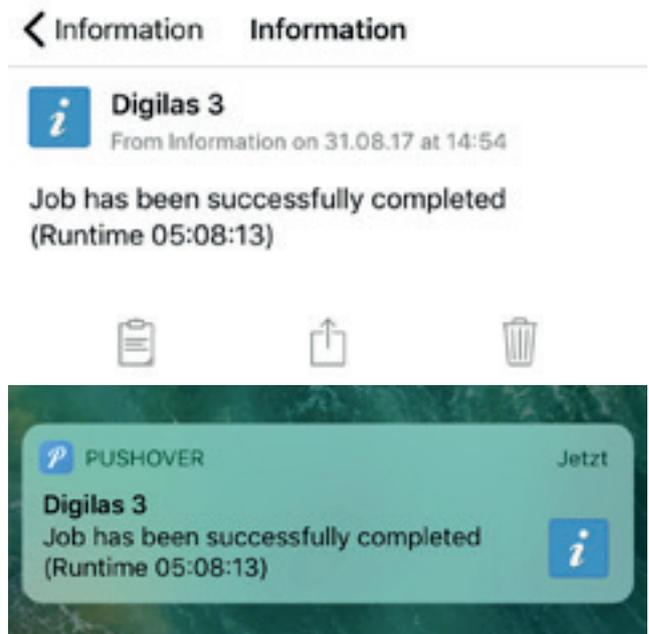
**Video surveillance of machine interiors and automatic push notifications allow Schepers to respond to the needs of many customers.**

The “Video Surveillance” accessories package gives operators permanent control of machine interiors. There are two types of monitoring. First, the user can always view the operation of the system on an external monitor designed for continual use. The second option is even more convenient. With a smartphone – iPhone or Android – the user can turn on the camera from anywhere and find out the system status. Because video surveillance in workplaces is a critical issue, the system has various settings that protect the privacy of the operators present. One of these is digitally limiting the camera’s field of vision.

With the newly developed “push notification” accessory, Schepers also provides customers with [EG1] long production runs an additional relief. Department Heads, operators, or maintenance teams are automatically informed as soon as a defined condition occurs (e.g. completion of a job). This saves valuable time and resources in production or maintenance processes because every previously defined condition is immediately reported. The distribution of these



*Surveillance camera directly at the machine*



*Reliable push notifications*

messages is independently administrated and controlled by the client. The notification levels can likewise be freely defined.

The Schepers consulting team is happy to answer all questions by telephone at +49 (0) 2564 95050.



K.WALTER

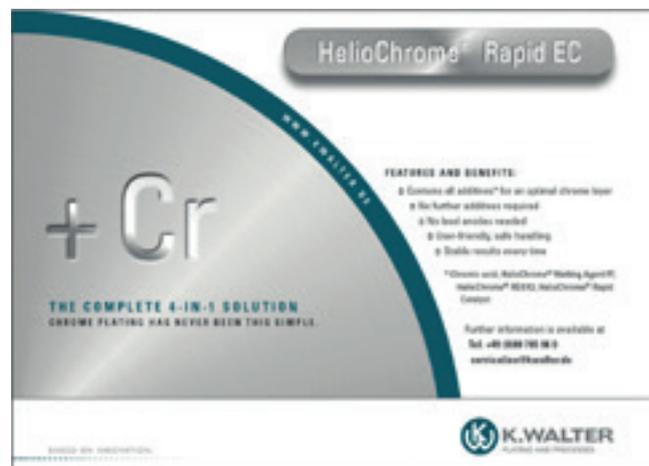
## THE COMPLETE „4-IN-1“ SOLUTION FOR CHROME PLATING

The new HelioChrome® Rapid EC from K.Walter revolutionizes the chromium plating of gravure cylinders

**“4-in-1“: This is the key advantage of the new HelioChrome® Rapid EC. The essential additives – which previously had to be added for various effects – are now included in the product. Things couldn’t be any simpler or safer.**

Only K.Walter offers this kind of complete product. For optimum composition of the chromium layer, various additives were previously added to the bath. Dosing errors could not be ruled out. Now that additional additives are unnecessary, HelioChrome® Rapid EC – in addition to its user-friendly handling – offers consistently stable results. This also eliminates the need for the formerly used lead anodes – a further decisive advantage.

HelioChrome® Rapid EC is based on chromic acid and includes the well-known additives *HelioChrome® Rapid Catalyst*, *HelioChrome® Wetting Agent FF* and *HelioChrome® REOX3*. These three components are responsible for various galvanic effects.



The *HelioChrome® Rapid Catalyst* supports electrolysis to give the chromium layer maximum stability. Specifically, hardness, roughness and microcracks are steered into the respective optimum ranges. Thus, the range for the desired corrosion-resistant microcracks is most favorable between 300 and 600 cracks per cm.

*HelioChrome® Wetting Agent FF* is a PFOS\*-free wetting agent that can reduce the surface tension of the electrolyte from over 70 mN/m to less than 30 mN/m. “FF” stands for “foam-



K. WALTER

free". Under normal conditions, the formation of gas bubbles and thus of surface foam and spray mist is negligibly minimized. This is advantageous because it considerably reduces the chromium content in the exhaust air and lessens the risk of hydrogen depletion. And since the electrolyte spreads much more, the system is easier to clean; there is hardly any carryover. At the same time, greater contamination of the chromium plating bath is avoided, which saves cleaning effort and protects the system hardware.

*HelioChrome® REOX3* – which controls the trivalent chromium in the electrolyte – is the decisive component for electrolysis without lead anodes. This is extremely welcome from the point of view of occupational health and safety because operators no longer have contact with the previously used lead anodes, i.e. they no longer need to clean them.

\*) PFOS = perfluorooctane sulfonate, an anionic surfactant of perfluorooctanesulfonic acid incorporated into Annex B of the Stockholm Convention in May 2009; i.e. PFOS, PFOA and corresponding derivatives may no longer be used as wetting agents for hard chromium plating in controlled electroplating systems since 08/26/2015 (except in closed systems).



K.WALTER

## CHROMIUM TRIOXIDE – NOTHING IS CHANGING FOR USERS YET

Update on the REACH authorization of CrO<sub>3</sub> by the EU

**The authorization of CrO<sub>3</sub> remains vastly important for the gravure printing industry. As reported in the last edition of the helioscope newsletter, leading European companies and organizations, including the Heliograph company K.Walter and the ERA (European Rotogravure Association) are driving this process in the EU under the auspices of the “Functional Chrome” consortium. It is now clear that following the original “Sunset Date” of September 21, 2017, CrO<sub>3</sub> can be used until further notice.**

The date of the CrO<sub>3</sub> usage ban is being “transitionally” but indefinitely postponed because the deadline for publication of a final and official decision by the European Commission (including in the Official Journal) expired on September 21, 2017. This ensures the further use of CrO<sub>3</sub> by K.Walter customers.

Despite this, the authorization procedure is still in progress. The first obstacle, namely approval by the European Chemicals Agency ECHA with its RAC experts (Risk Assessment Committee) and the SEAC (socioeconomic analysis), had already been successfully taken. Now, only the details of the new ruling are still in discussion.

Authorization following the outstanding CrO<sub>3</sub> usage ban would require downstream users, to which K.Walter’s customers belong, to report their use of chromium trioxide to the ECHA. This would have to be done within three months from the date companies received a CrO<sub>3</sub> delivery with a new safety data sheet. K.Walter would communicate the authorization number, which the user would then specify under his company name and contact data on the REACH website. In addition, the user can store the typical annual CrO<sub>3</sub> volume and number of persons handling the substance.

If you would like to view the REACH page, downstream users will be registered under <https://reach-it.echa.europa.eu/reach/>. The user then receives access to the form <https://reach-forms.echa.europa.eu/du66/du66.php>, where the above information can be entered.

To achieve the necessary certainty in daily operations, K.Walter and the ERA will provide a detailed guide for all users in gravure printing that will describe the procedures and regulations to be followed.



BAUER

## WEGA 1610

Compact design for perfect cylinder loading

**The WEGA S 1410 cylinder transport system – designed for Slim Line S automatic lines with hollow cylinders of up to 1,400 mm face length – has successfully established itself since the DRUPA 2016. Now, the WEGA 1610 – the large model in the WEGA family – was delivered for the first time in July.**

As usual, the new system stands out with customizable dimensions for any hall size, flexible, self-centring cylinder loading and rapid, safe transport. It can be integrated into all processes used in fully automatic production lines for standard shaft and hollow cylinders. Further new orders for the WEGA 1610 show that this concept is the success track on which the WEGA product family ensures high customer benefit.

The WEGA 1610 is the successor of the previous Gemini product line. Customers who have an automatic line with monorail and the Gemini transport system can still purchase the existing Gemini model if they expand their current lines.





BAUER

**The most important characteristics of the WEGA 1610 at a glance:**

Modular crane rail with expandable steel construction

Hollow and shaft cylinders up to max. 500 kg, face length of 450 – 1,600 mm and total length of up to 2,350 mm, circumference of 450 – 1,000 mm

Cylinder loading with special gripper technology suitable for shaft and hollow cylinders

High transport speed and drive dynamics with very accurate load positioning due to servo drive technology in combination with an innovative position measurement system

Operator protection in automatic lines with Performance-Level D safety concept

Online interface integrated into PLC controls – ideal for operating fully automatic production lines



## 5 GOOD REASONS SPEAK FOR A SUBSCRIPTION

**It's current:** The newsletter provides the latest information on products and services of the Heliograph Holding companies.

**It's comprehensive:** You gain new insights into the current developments of the Heliograph Holding companies.

**It's modern:** Read all news in a clearly structured presentation with a modern look.

**It's fast:** You immediately get the content you want – without long downloads or tedious file-handling.

**It's easy:** Register simply and quickly.



heliograph  
HOLDING



### ABOUT HELIOSCOPE

Always with our finger on the pulse of time. Ascribing to this motto, we continually keep you informed about current developments, products and services of the Heliograph Holding companies. In practical, customer-oriented and worthwhile terms.

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