



DAETWYLER

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## Market launch of Finishstar P1610

### The new benchmark for finishing the surfaces of gravure cylinders

We are delighted to present the new Finishstar P1610. This high-quality polishing machine combines proven technology with innovative improvements to many of the machine's systems.



*Finishstar P1610 and Finishstar P1610 Cu/CR with central main carrier*

The Finishstar P1610 is modularly designed and can thus be customized to meet each customer's

individual requirements. Its equipment ranges from the low-cost chrome polisher with belt polishing unit all the way to the 4-head configuration for processing copper and chrome surfaces. The machine's compact design makes it equally suitable for use in automatic lines or manual production environments. The innovations to and improvements of the Finishstar P1610 are as follows:



*Polishing units with innovative folding mechanism*

### Machine design

The heart of the new approach is a central main carrier. Attached to it are all process-critical components such as the cylinder bearing or guides.

This design ensures the necessary torsional stiffness and also guarantees better access to the polishing units. Polishing belts can thus be changed in minutes without interrupting production.

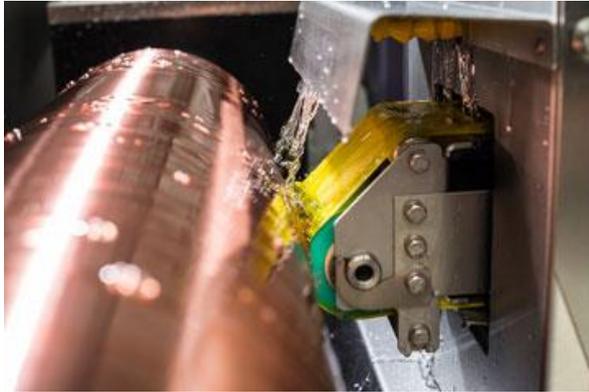
### Polishing units

As far as our polishing units go, customers can continue to rely on proven components.

Due to the open design of the new machine, the polishing heads have been slightly angled. This enables optimal return of the wastewater in the working tank.

The polishing heads are now individually

encased and the belt polishing units have an innovative, folding mechanism without screws.



*Baffle plates above the polishing units*

**Water circulation**

Now, the polishing water is no longer channeled through adjustable nozzles on the cylinder. Instead, newly developed baffle plates above the polishing heads always direct the water to the right place on the cylinder.

The water tank has been integrated at the rear of the machine. It has a double floor with a cooling coil in the lower container. This provides an unobstructed view of the upper container for obstacle-free cleaning.



*Water tank with filter basket and fleece*

**Filtering**

The new P1610 Finishstar has a closed water circulation system whose feed water is pre-filtered by a candle filter. This eliminates the need for the separate filter unit that was previously located next to the machine. The filter box (see Ill.) has now been placed above the reservoir and thus needs no additional space. It can be easily removed for cleaning.



*Water tank with automatic belt filter*

For technical reasons, the standard version of the Finishstar P1610 Cr is equipped with a filter basket and fleece. An automatic belt filter is standard for all other models but can be optionally ordered for the P1610 Cr.



## 1. International Engraving Seminar in Teheran

**Daetwyler Graphics participates with success**

**The ERA (European Rotogravure Association e.V.) and its members supported the first International Engraving Seminar, held May 29, 2014 in Teheran and hosting 150 visitors.**

In part, the success of this event was certainly due to the participation of notable firms such as W&H, Janoschka, GMG and of course, SwissTec.

Due to the political situation and the current embargo, however, most players in the Iranian print industry have been forced to switch to Asian technology, even though they have a large affinity for European suppliers. But under Iran's new Prime Minister Hassan Rohani, the relationship between this land of 75 million residents and the West has greatly improved.

In the past, Daetwyler Graphics had already established a wide client basis in Iran. Participation in this seminar was a further important step to once again position the company on the slowly opening market.



*Christian Karg, Daetwyler Graphics AG*



## The new Polishmaster measuring devices

### Testmaster Contour, Rz-Star and Rz-Printer

Do you want optimal use from your fine cutter? Simple and continuous monitoring and documentation of surface roughness? Daetwyler Graphics now introduces the tools you need to measure these parameters easily and economically.

Our philosophy is making easy-to-handle, modular instruments that are precisely coordinated to our customers' applications. We developed our **DG Testmaster Contour** exclusively for long-wave measurement, for example, making it the successor to our Testmaster 2000. Its advantages? Regular inspection of ripple values improves the service life of fine cutters, which prevents disruptive printing problems such as banding.



Easy measurement of Rz, Ra, Rmax (Rt) and Rq with the DG Rz-Star

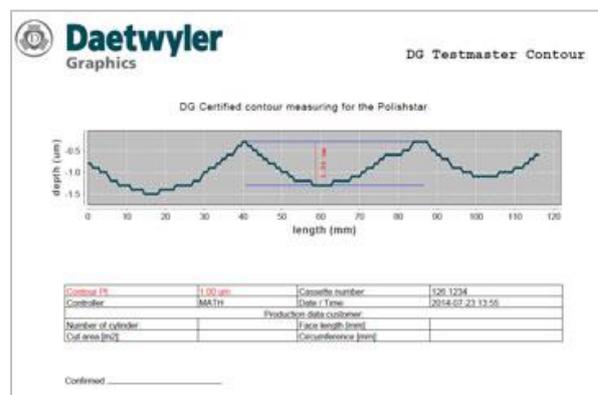
**DG Rz-star** is a hand device for mobile roughness measurement. Perfect surface roughness significantly increases the service life of each gravure cylinder and directly influences printing results. Thanks to the instrument's easy handling,

roughness values can now be measured in seconds.



All measurement results can be easily printed via the Bluetooth interface

The new **Rz-Printer** prints the determined roughness data parameters, profiles and their measurement conditions extremely quickly. It can be powered either via the integrated rechargeable battery or mains operation. Readings are transmitted via Bluetooth. Replacing the paper roll is also simple: open the cover, insert the roll, close the cover and get going again.



Hard copy of an analysis made with the Daetwyler tool as shown on a PC

|                   | DG Testmaster Contour                                                                                                                                                                                 | DG Rz-Star                                                                                                                                                                                                                                                                                                                          | Rz-Printer                                                                                                                                                                                                                            |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | Measurement and analysis of the long wave in the <u>Polishmaster</u> .<br>With printout.                                                                                                              | Measurement of the surface roughness of steel, copper, zinc and chromium cylinders.                                                                                                                                                                                                                                                 | Prints roughness data parameters, profiles and measurement conditions of the <u>Rz-Star</u> .                                                                                                                                         |
| Properties        | Easy measurement.<br>Handy, compact, economical solution.<br>Cost-cutting potential through higher milling machine life.<br>Windows-based.                                                            | Measurement of <u>Rz</u> , Ra, <u>Rmax</u> (Rt), Rq etc.<br>Mobile and network-independent.<br>More than 800 measurements can be made on one battery charge.<br>Good value for the money.<br>Easy handling, intuitive operation.<br>Color display.<br>5 measurement programs.<br>100 profiles or 10,000 measurements can be stored. | High availability: Up to 5 paper rolls can be printed on one battery charge.<br>Robust housing.<br>Industry-proven.<br>Bluetooth interface.<br>"Easy Paper Loading":<br>Easy paper exchange (standard industrial rolls).              |
| Scope of delivery | <ul style="list-style-type: none"> <li>• USB ripple value sensor</li> <li>• CD with evaluation software</li> <li>• 1 USB Dongle</li> <li>• 1 USB interface</li> <li>• Operating manual D/E</li> </ul> | <ul style="list-style-type: none"> <li>• DG <u>Rz-Star</u> in robust case with:</li> <li>• Inductive skid tracer</li> <li>• 2µm/90° charger/mains adapter</li> <li>• Fastening tool</li> <li>• Operating manual D/E + CD</li> </ul>                                                                                                 | <ul style="list-style-type: none"> <li>• <u>Rz-Print</u> in the robust case with:</li> <li>• DG <u>Rz-Printer</u></li> <li>• Charger/mains adapter</li> <li>• Rechargeable battery pack</li> <li>• Replacement paper rolls</li> </ul> |
| Article no.       | 030.940.001                                                                                                                                                                                           | 600363                                                                                                                                                                                                                                                                                                                              | 600.364                                                                                                                                                                                                                               |



## Galas de Mexico perfects roto-gravure cylinder manufacture

**The traditional Mexican firm – now one hundred years old – has successfully integrated Helio® Zinc galvanic into its present DLS laser line**

After demonstrating its innovative new Helio® Zinc process at the last drupa, Galas de Mexico was one of K.Walter's first customers. Now, in close cooperation with Daetwyler Graphics, the new procedure has been successfully integrated into their automatic DLS laser line.



*An one hundred years old traditional Mexican firm*

Direct laser engraving and the Laserstar are considered to be the most precise process for roto-gravure cylinder making. In 2007, the Daetwyler Laserstar had already proved itself within the Galas automatic line. In 2014, the system was first extended by the addition of a Helio® Zinc galvanic tank, among other things.

The decisive factor for Galas's investment decision was the much simpler bath control electrolyte conduction without the necessity of an external zinc dissolving nor a carbonate freezing unit. In addition, a deposition rate of 3.5µm/min. was achieved as well as a layer thickness of up to 1500 µm in consistent homogeneous quality.

Galas was also convinced by the fact that Helio® Zinc offers higher corrosion resistance and a higher Vickers readings compared to alkaline zinc layers.

Today, Galas uses both the alkaline and the Helio® Zinc galvanics in the same line in parallel. No gradation modifications are needed on the Laserstar to do so. Simply adjusting machine parameters, and performing the threshold measurement does the trick to engrave cylinders of both zinc materials.

With these positive results, Galas de Mexico is already thinking about expanding its capacities. And it goes without saying, with systems from Heliograph.



*The Laserstar 1610 PFL von Daetwyler Graphics for Galas de Mexico.*



*Helio® Zinc Basic from K. Walter*

PremiumFlexo®

## FREE FROM ADDITIVES.



### Razor-sharp direct laser engraving for flexographic printing. DIRECT IS BETTER.

Environmentally friendly ingredients, simple preparation, and a long shelf life. With qualities like this, PremiumFlexo is bound to impress anyone who values healthy, high-quality flexographic printing. Direct engraving of elastomer printing forms brings multiple benefits. The energy-saving and solvent-free manufacturing method uses only two process steps to produce the finished form, making it marvelously simple and extremely cost-effective. What's more, it also delivers precise reproducibility, outstanding print quality, and high mechanical and chemical stability during ongoing operation. PremiumFlexo from Hell. DIRECT IS BETTER.

Based on Innovation.

**HELL**  
Gravure Systems

[www.HELL-PremiumFlexo.com](http://www.HELL-PremiumFlexo.com)



## Product campaign for laser engraving systems

### HELL Gravure Systems to announce further product innovations up to the drupa 2016

For 15 years now, HELL has produced some of the most sophisticated laser technologies on the market. After only having produced systems for electromechanical engraving, the Kiel-based company entered the flexo market in 2000 with HelioFlex for CtP laser exposure of photopolymer forms.



HELL PremiumSetter S1300 und S1700

HELL Gravure Systems GmbH & Co. KG in Kiel, a Heliograph Holding company, will be launching further product innovations in the field of direct laser engraving in the period leading up to drupa 2016. Dual-beam technology will soon be available for the Cellaxy laser engraving system for gravure form production. This high-speed dual-beam engraving technology is already available

for the existing S1300 and S1700 PremiumSetter models for flexographic printing. The third model in the PremiumSetter series, the S3000, will also be launched before drupa and will have up to four laser sources.

### 15 years of laser expertise

HELL has been supplying the market with highly sophisticated laser technologies for 15 years. Having previously focused exclusively on manufacturing electromechanical engraving for roto-gravure printing, the Kiel-based company moved into the flexographic printing market in 2000 with the HelioFlex series for CtP laser imaging of photopolymer forms. Launched in 2005, the Cellaxy enables gravure customers to use single-pass or multipass laser engraving on a variety of metals. The first PremiumSetter for direct laser engraving of elastomer flexographic printing forms followed in 2006. Optics and high-power lasers have now also become a fundamental part of the company's core know-how.

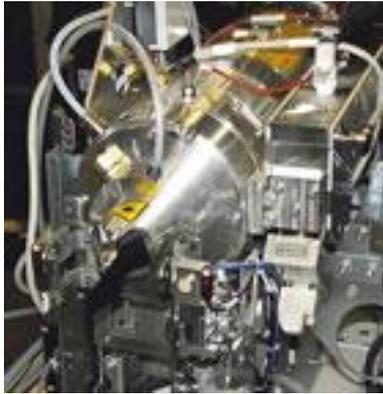


HELL Cellaxy

### Maintenance-free high-power fiber laser with high-tech optical head

Fiber laser technology is the key component of both the Cellaxy and the PremiumSetter series. It is ideal for high-precision applications at high engraving speeds. HELL took this technology to a whole new level in a joint development with laser manufacturer IPG, delivering the ultimate in beam quality and stability for precise direct engraving of gravure, embossing, and flexographic forms.

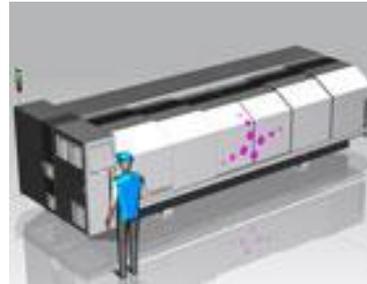
The CW (continuous wave) fiber laser emits an unpulsed (i.e. continuous) laser beam – this is vital for highly productive laser engraving. The wavelength of 1070 nm lies in the infrared range and the focused beam supplies the energy required to remove the material with absolute precision. With a 600 W beam, the IPG fiber laser is one of the most powerful in its class.



*HELL optical head*

The exit developed jointly with IPG and the latest-generation maintenance-free optical head specially designed by HELL get the very best out of the fiber laser. The high-quality components and the optimum optical setup complete with water cooling ensure excellent beam stability over the entire engraving time. This means that the optical system's lenses are completely stable despite having a high-energy beam passing through them. Consequently, beam focusing and thus spot size remain constant under all conditions.

What's more, a new kind of plug & play interface between exit and optical head results in an exceptionally service-friendly system.



*HELL PremiumSetter S3000*



## A wealth of online knowledge

### New microsite bundles Hell's extensive know-how on direct laser engraving

**HELL Gravure Systems GmbH has now removed all information on PremiumFlexo from its corporate website (www.hell.de) and put it on an independent microsite.**

HELL's new website offers an extensive range of information and interactive options on all aspects of direct laser engraving of elastomers for flexographic printing

HELL Gravure Systems GmbH & Co. KG in Kiel, a Heliograph Holding company, has removed all the information on PremiumFlexo from the corporate website www.hell.de and brought it together on a dedicated microsite. Customers and anyone else interested can now find all the relevant information on HELL PremiumFlexo, the direct laser engraving technology from HELL, at www.hell-premiumflexo.com.

This completely new site, with its fresh content and structure, offers a fitting showcase for PremiumFlexo, the technology for razor-sharp direct laser engraving of elastomer forms for flexographic printing. The microsite is part of the PremiumFlexo marketing campaign "DIRECT IS BETTER" and integrates HELL's extensive know-how on direct laser engraving. It features a whole range of informative content and value-enhancing offerings in a compact and professional format.

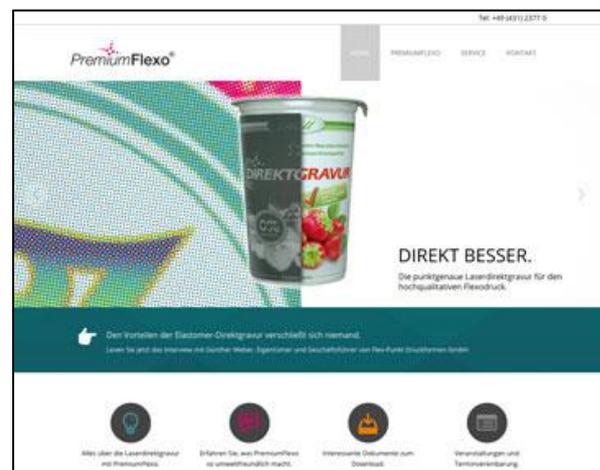
While PremiumFlexo is becoming ever more successful and demand for information grows, there has so far been no comprehensive online information resource on this future-oriented

technology. The existing HELL website content has thus been revamped and only fundamentally relevant archive entries have been adopted directly. Everything else has been updated and expanded in line with the ongoing development of PremiumFlexo technology.

The microsite is in two languages – German and English. As well as technical specifications, the extensive content offers a clear, detailed description of PremiumFlexo technology – the PremiumSetter engraving machines, PremiumProfiler software, and the new generation of elastomer materials. Technical and economic benefits and unique selling points are clearly illustrated.

Various PremiumFlexo users also have their say, providing objective statements and information that will be of great interest to both decision-makers and practitioners. Drawing on their expertise, they share their experience of using this technology and moving flexographic printing over to high-quality elastomer forms.

All interviews, case studies, references, the new PremiumFlexo brochure, and the latest press releases are naturally also available to download.



The new microsite for PremiumFlexo



## A winning team

**A number of K.Walter employees decided to take on a very special challenge: participation as a mixed team in the B2RUN in Munich. At the finish line in the city's Olympic Park, all team members were proud of their performance. The group ended up placing in the top third of this race – always an important date for companies from Munich and the entire surrounding area.**

Altogether 30,000 participants ran the 6.4 kilometer-long stretch. The K.Walter company team was also there, highly motivated and very well trained. The race was the culmination of three months of preparation and training for the team – which was stylishly outfitted in racing jerseys sponsored by the company management. The "Walterians", of course, did not want to embarrass themselves in front of competitors, but hold their own against the teams from Siemens, BMW and many other small and mid-sized firms. To ensure this experienced K.Walter colleagues organized a course. Once a week – after hours – everyone met in order to train together. Although they sweated a lot, they had a great deal of fun getting in shape together.

In the end, the K.Walter athletic team was united in its opinion that the race atmosphere was impressive. Not only was the B2RUN worthwhile for getting in shape, it was really fun. All the more because it helps other people: Part of the entry fee goes to the aid of children in need.



*The look of genuine athletes: The K.Walter team, ready for the 2014 B2RUN in Munich.*



## Own booth at the trade fair in São Paulo

**MDC Max Daetwyler do Brasil in October at the 2014 Flexo Latin America**

**The Brazilian Heliograph subsidiary had its own booth at the Flexo Latin America. This flexographic printing trade fair took place from October 7–10, 2014 in the Transamérica Expo center in São Paulo.**

In addition to providing information on systems and products from the entire Heliograph Holding, Stand G28 in Hall C also presented high-quality doctor blades made by Daetwyler SwissTec AG. The fair – which is carried out every two years – was open daily from 11 AM to 8 PM. ([www.feiraflexo.com.br](http://www.feiraflexo.com.br))

The 2014 ExpoPrint Latin America was held at the same venue in July. This large and highly significant event for the Latin American printing industry, which – like drupa – is held every four years, covers the whole range of print tasks, including prepress, printing, packaging and post-press. Based on the numbers of visitors, the ExpoPrint Latin America is among the worldwide reference fairs: 35,000 visitors were recorded in seven days. The exhibition focused on digital and offset printing.

MDC Max Daetwyler do Brasil was a co-exhibitor at the Renzmann company booth and showed SwissTec doctor blades. Visits by major customers contributed to the success of the MDC fair, including the Editora Abril, Peeqflex/Empax, Diadema Embalagens, Mazda Ltd and Rehau companies.



*Welcome poster in the foyer of the ExpoPrint*



*Visit by major customers at the collective ExpoPrint stand: Peeqflex/Empax ...*



*... and Editora Abril*





## A Bavarian in Brazil

### Insights and impressions from everyday life in Brazil

**The manager of the Brazilian branch office of the Heliograph Holding, Martin Raab, has lived with his family in São Paulo since 2013. Among other things, he also experienced the 2014 Soccer World Cup there live.**

The entire Raab family is enthusiastic about Brazil. Martin Raab says: "The hospitality and commitment of the people here are outstanding." The MDC Max Daetwyler do Brasil branch office, with its ten employees, sells products from the Heliograph Holding companies and Daetwyler Swisstec on the Brazilian gravure printing market. Of course, the Raabs also experienced the 2014 Soccer World Cup live in Brazil. In the Germany vs. Brazil game, a "public viewing" with Brazilian neighbors and friends at home in São Paulo ended up an emotional roller coaster – including both shock and exuberance. The fantastic mood in the stadiums during the games, which the family experienced live, was also impressive (the German newspaper "Passauer Neue Presse" reported in an article). The Soccer World Cup in Brazil, is an event – everyone agrees – that will remain unforgettable. And it also somewhat compensates the Bavarians for the fact that every so often, they do miss their home in the Bavarian forest.



*The whole family in football fever*



## Old Friends

**Loyal customers make business more enjoyable. Kent Seibel of Ohio Gravure Technology found renewed confirmation of this when recently visiting the MCP Company, Inc. (Milwaukee, Wisconsin) to extend its existing equipment by a new Spectrum engraver.**

Kent Seibel was particularly pleased to work again with David Lewis and Michael Marian on this occasion. The two specialists had been at MCP in 1985 when the first two Ohio engravers were installed. All three men quickly agreed that they were only getting better with age!

The Spectrum engraver is comprised of the Hybrid Engraving System and Vital Proof.

"It was the right time to expand our capacity, and the Ohio Spectrum engraver fit well with the equipment we already had," says David Lewis, Managing Director of MCP. "In addition, our portfolio now includes the Collage Layout System, which lets us offer our customers better quality and more options." With the new Spectrum, Hybrid and Collage systems, MCP has clearly demonstrated its commitment to excellent production quality in gravure cylinders.

And very much to the joy of Kent Seibel, a new chapter in the close cooperation between the two companies has opened.



*Dave Lewis and Michael Marian made a "selfie" with the new Spectrum machine.*

## SCHEPERS

### Schepers heading for record

#### Number of incoming orders on unforeseen level

**Many engraving companies in Asia and Europe are currently investing more in laser technology from Schepers. Asia in particular is pushing laser etching technology. This year, Schepers has already delivered thirteen DIGILAS and received further orders for seventeen DIGILAS for mask ablation and the appropriate etching machines.**



*The new DIGILAS Basic*

A key factor for this decision is the high productivity and reliability of the DIGILAS systems, among other things. An additional factor is the uncontested high quality of the etched cylinders. Etched structures have been established for many years in the high-quality packaging market and do not fall short of directly lasered cells. The Schepers DIGILAS offers both procedures also in one machine. The customer will get one system which can be used for various applications. By means of laser technology freely defined cell shapes in copper with different depths which can be chrome plated easily can be created. The multiple direct beam technique of the DIGILAS which can be installed at the same

machine is used for structuring 3D embossing cylinders or for engraving of micro texts and security printing cylinders.

This year, Schepers is accommodating many of its clients who are convinced by the technology but cannot or do not want to invest in a large, all-purpose machine. In many discussions, Mr. Schepers was asked whether it might be possible to manufacture a DIGILAS made exclusively for light gravure cylinders that could be offered at a more economical price. Schepers took on this task and developed the new DIGILAS Basic especially for the gravure printing market.

This system follows the well known, high-precision DIGILAS machine concept and is made for cylinders with a maximal weight of 300 kg, an overall length of 300 – 1700 mm and a diameter range of 50 – 340 mm. It is controlled by the proven DIGILAS Full Control with multiple beam technology. The DIGILAS Basic can be ordered from now on and will be delivered next year. Two comparable machines are already in production.

## Success in China

### First installation of a Lüscher XPose UV-Flex 260L at the Amjet Group

In June 2014, the first XPose 260L went successfully into operation at the Amjet Group in Shenzhen, China. The Amjet Group is one of the larger service providers in the Chinese flexo industry and offers prepress services at its four sites. In addition to plate production for flexographic printing, Amjet also exposes coating plates for the offset industry.

The XPose 260L UV Flex is configured as a hybrid machine and equipped with 32 IR lasers and 16 UV lasers. These can also be used to expose the Accent reactive plates from Mac Dermid, in addition to flexographic plates. Formats of up to 1340 x 2260 mm in material strengths of up to 6.35 mm can be processed with this system.

One of the reasons Amjet considered the XPose 260L was because it can also be used as a hybrid with infrared and ultraviolet lasers and the interior drum concept. Plates of every size and material thickness can be easily and quickly inserted and removed from the system. Because the plates are static and not moved during the exposure process, slide rails are unnecessary and plates must no longer be additionally secured with adhesive tape. As a further positive aspect, Amjet values the fact that the interior drum technology eliminates format dependency and thus allows exposure of smaller and even the smallest plates.



Mr. Peng Ming Kang General Manager of Amjet Shenzhen and Mr. Peng Xiao Hui, Technical Manager