

# Archipelago



TECHNOLOGY  
PRINTING CULTURE  
COMPANY NEWS  
by OMET Srl

**NEW OMET XJET**  
HYBRID SOLUTION AT PRINT4ALL

**LABELEXPO AMERICAS 2018**  
TWO NEW OMET MACHINES

**OMET X6.0**  
IMPROVES PERFECTION



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## OMET: 55 YEARS OF INNOVATION AND PASSION



2018 is an important year for OMET, which celebrates **55 years of history** and experience on the market. It's a story of growing success in numbers, people, products and customers. A story built upon the trust generated in our clients by the reliability of our products and our company. From our point of view, trust is the basic element of success.

OMET was born from an idea materialized in a garage, and we are proud to see that today is an international company renowned all over the world. Our growth has been guided by values like **passion, respect** for our collaborators, team **pride**, and by the will of improving every day. We have never been afraid of taking a step forward and questioning the past to let the organization evolve according to the changing needs of the market.

We believe that the customer who buys more than one machine from OMET or chooses OMET after having experienced other brands, demonstrates more than any other the excellence of the work we have done. Clearly, for these kind of customers, OMET makes the difference in terms of **market competitiveness**. This is our mission: we can grow and win, only if our customers win. Our task is to be ready to create, design and build the product that allows our clients to gain a competitive advantage, in a win-win strategy.

We are committed in an unceasing research of both product and process innovation. Efforts are often oriented to products development, but process implementation is the real key to make companies actually more effective in meeting customers' needs. Nowadays, many product innovations are taken for granted, and the competition is often played on factors like reliability, productivity, service, customer care, **adaptability** to an ever-changing market.

Over recent years, we have invested even more on people, to enhance their skills and increase their motivation. Current market challenges can be overcome only by focusing on the best skilled staff. The context where we live and work in is increasingly complex: only **people** and their vision of the future allow us to understand the right direction, because they are the only ones able to guess and anticipate the upcoming trends. This is the reason why we need to create an environment that allows our collaborators to better express themselves.

Passion and innovation have guided OMET over its 55 years of history and are still elements of our belief "Innovation with passion". It represents our strong will to be different and make every day a small step forward, growing from every point of view: technology, structures, efficiency, processes, competition. Without taking any break.

ANTONIO BARTESAGHI (OMET CEO)



## WHERE IS THE MARKET GOING? CUSTOMIZATION AND AUTOMATION

In recent years the self-adhesive labels market together with the shrink sleeves one have considerably grown such as to allow their use in different industries beyond the traditional beverage one.

In the printing industry, this new trend and the continuous requests of **customization** have played an important role in the establishment of a development towards flexibility, print on different layers and mix of technologies.

With this in mind, OMET has established an important partnership with DURST, world-leading manufacturer of advanced digital printing technologies, aimed at the development and distribution of integrated **hybrid printing** presses (digital/flexo).

Hybrid machines are the perfect solution for small and medium runs on paper, film, or special high-end substrates. Digital technology reaches an excellent quality but with some limitations in colors and substrates; on the other hand, a hybrid press allows a wider range of printing possibilities and final applications for more complex subjects and consistent cost savings thanks to the in-line multi-process configuration. Beyond this, the hybrid solution has the advantage of obtaining the final product in **one single passage** with much less waste.

It offers to printers a wide range of opportunities in markets where **special finishing processes** are requested (such as spirits, wine and cosmetics) or in highly promotional markets, where customization is more frequently demanded and jobs are characterized by several variations.

For example, globalization has determined the need for different languages on the same packaging even at a national level, due to increasingly multi-ethnic contexts. Digital printing technology allows to **quickly change**

**data** on the same subject: a big advantage for competing in these markets.

OMET takes care of customers' needs and their safety: the partnership with Durst and the investment in the development of hybrid machines respond exactly to this mission. Yet, OMET's innovation follows multiple directions.

There are printers with high productions and the need for efficiency in long runs: for them, OMET is developing specific solutions, easy to use, totally automated and oriented to standardization. Machines are increasingly servo-assisted and equipped with remote controls. The next Print4All exhibition in Milan, for the first time, represents a global opportunity for a full immersion in the packaging value chain. Today, printers must understand better and better all the relations of the supply chain and promote a stronger **synergy of the processes**.

MARCO CALCAGNI (OMET SALES DIRECTOR)



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## OMET TO PRESENT THE NEW XJET HYBRID SOLUTION AT PRINT4ALL 2018

**OMET** will be among the protagonists at the Print4All exposition in Milan, with an innovative integrated **hybrid press**. This brand new event organized in Italy is dedicated to the world of printing and converting and aims at becoming the point of reference of the entire industry on an international level. It will be held from May 29th to the 1st of June, at the exposition center of Rho where OMET will count on a booth of 160 sqm (E16-F15, Hall 18).



At the Print4All OMET is going to surprise the public with the new OMET XJET powered by Durst, unveiled only a few weeks ago. It is the true core of the partnership between OMET and Durst: a complete hybrid solution that integrates in-line the Durst Tau RSC digital inkjet group with the OMET X6's flexo printing and converting units, providing limitless flexibility, wide range of final application and consistent cost saving. This machine can assure reliability and excellent re-

sults with all kind of run lengths, with the advantage of getting to the final product always in a single passage: it will be a closer look into the future of label and packaging printing.

During the exposition days, OMET will offer the possibility to visit their production sites in Lecco, where the entire product portfolio, including the iFlex, the XFlex X6.0 and The Varyflex V2, will be available for a closer look and live demonstrations.

## PRINT4ALL

CONVERFLEX CONVERTING • BARGAIN PRINTING • LABELLING GRAFITALIA PRINTING & COMMUNICATION INPRINTING INDUSTRIAL PRINTING



The Print4All was conceived as a “business project” dedicated to the entire supply chain, in order to overcome the conventional segmentations between commercial printing, industrial printing and publishing market. The new format promotes a new point of view of the printing scenario with the chance to create new synergies and business networks. During the same days, visitors will have access to other trade fairs such as Ipack-Ima (packaging), Meat-

Tech, Plast and Intralogistica that will take place in the pavilions nearby, using the same entry ticket. The players of every industrial sector will find a complete offer at the same time in a single varied context.





## ITALGRAFICA SISTEMI ANNOUNCED AS WORLD'S FIRST CUSTOMER FOR OMET XJET POWERED BY DURST

**The new OMET XJet powered by Durst, the integrated hybrid solution for a wide range of high-performance labels and packaging printing, will be installed at Italgrafica Sistemi headquarters in Castelgomberto, in the province of Vicenza (Italy), in the early summer of 2018.**



Together with OMET, manufacturer of printing and converting machines, the two companies are providing a complete hybrid print and finishing line to Italgrafica Sistemi that will offer an unlimited flexibility and a wide range of final applications with a consistent cost reduction. It chose the OMET XJet because of the ability for in-line multi-process configurations that finalizes products in a single pass. Italgrafica Sistemi is a €11-m turnover company with 50 employees who work two shifts. With 18 printing lines already running at Italgrafica Sistemi, the new OMET XJet is expected to replace two of the flexo lines as demands continue to increase for short-run, personalised technology in a single pass. It will open up new opportunities for cold foiling, printing on reverse and adhesives, as well as varnish and diecutting. Francesco Niorettini, General Manager of converter Italgrafica Sistemi, said the total cost of ownership and benefits to his customers were crucial in the decision-making. "This investment opens up a new world of opportunity," he said. "It allows us to give far more choice to the market and produce so many more different types of labels for any kind of job. By including the Durst Tau, we will be able to broaden our portfolio by combining all the technologies together. "What is also really important is to ensure that we retain the same high level and definitions produced with flexo and offset – and the Durst / OMET

hybrid will enable this. Other factors in our investment decision included the 50 percent increase in speed, the low service and consumable costs, as well as the fact that both Durst and OMET have good reputations in the marketplace." Mr Niorettini added: "We'll be saving huge amounts of money and time. We expect a 20% saving in overall production costs and will benefit from faster start-up times, which will enable us to offer a wider product range. As one example for, say, a four-colour job we expect to increase the productivity of the machine by 40 percent with faster set-ups. In addition, we will be saving around 70 percent in material waste by using digital." Helmuth Munter, Segment Manager Labels & Package Printing at Durst, said: "Italgrafica Sistemi is one of the increasing numbers of forward-thinking companies that are seeing the huge benefits of using the best technologies in a complete 'all-in-one' printing process. This ability to combine digital inkjet printing with conventional pre- and post press printing and finishing world, offers our future customers a highly cost effective solution.

"In addition, the feedback we received from our recent Durst Digital Days has also convinced us of how customers perceive future market opportunities to increasingly involve UV inkjet digital in flexible configurations or as a complementary technology. It's the future."

OMET XJet hybrid broadens the opportunities for label printers thanks to its flexible configuration. Italgrafica Sistemi's configuration provided through distribution partner LIRMAprint will feature an unwinder, two flexo units, the Tau 330 RCS, another two flexo units, a diecutting mono twin system, and a rewinder. The Vision automatic registration system is also included and the system has an option to print on adhesive, laminate and other applications to create coupons and special labels, including peel-back versions.



# The Cost Effective All-in-One Hybrid Press Solution

- Combines the best of the digital printing and conventional finishing.
- Provides a whole range of conventional printing and finishing options such as flexo stations for priming and/or varnishing, cold foil, rotary die cutting, and more.
- High material flexibility and significant cost saving potential with inline priming.
- Sophisticated decoration applications for value added label production.



## OMET XJet - Powered by Durst



## TWO NEW OMET MACHINES AT LABELEXPO AMERICAS 2018

OMET will be present at the next **Labelexpo Americas** from 25 to 27 September 2018 at booth 3123, with two special machines in demonstration. The new hybrid OMET XJet powered by Durst and the OMET X6.0 for the first time shown outside Europe.



Labelexpo Americas 2018 is the number one appointment for the label printing industry across the Americas. The event reached 17,500 visitors during the last edition in 2016, with over 450 exhibitors on an exhibition area of over 200,000 square feet. Visitors came from 88 countries, although about 75% were American citizens. The trend is positive, with an increase of 8% compared to the previous edition, so a further increase is expected for the edition scheduled from September 25 to 27, with a decisive step towards 20,000 visitors.

The latest edition showed a growing interest towards the digital technology. OMET moves fast in this direction, getting ready for Labelexpo Americas 2018: OMET XJet powered by Durst, the new hybrid flexo/inkjet machine launched at the beginning of 2018, will be shown for the first time in America with a complete configuration that allows the realization of any type of label printed in flexo, inkjet, or both technologies, including finishing and converting in line.

OMET XJet powered by Durst will be installed at the demo center of OMET Americas Inc, Elk Grove Village, Illinois, and will remain at the disposal of all Americas printers interested in experiencing the potential of OMET-Durst technology, simply by contacting the commercial staff of OMET Americas Inc. and booking a personalized demonstration.

OMET will exhibit on its 3600 sqft booth (#3123) also the new OMET X6.0, previewed at Labelexpo Europe 2017 and ready to conquer the North American market thanks to a superior level of automation and ease of use. The OMET X6.0 features the new printing groups with motorised pressure adjustment and Cruise Control, and the new Multivision system for immediate adjustment and control of the print register.

OMET Americas has recently installed a new OMET X4 at Phenix Label, continuing a partnership that is giving excellent results. OMET Americas also announced the installation of OMET iFlex at the major MCC Multicolor printer, based in Batavia (OH) and one iFlex at Specialty Printing, East Windsor, CT, as well.

OMET Americas is very active on the market and has recently activated the "Future of Flexo" initiative in collaboration with flexo suppliers and printers - Rossini, RotoMetrics, SPGprints and Vetaphone - to guarantee students concrete and specific training on the technologies used in the field of flexography. These companies have donated \$ 5,000 to the Illinois State University Department of Technology as an investment in the future workforce and technological innovation: it will support the group of students involved in the "Phoenix Challenge", an annual competition among students in the field of flexography.



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2018



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## FIFTH OMET PRESS IN 3 YEARS FOR PHENIX LABEL (USA)

For more than a century, **Phenix Label** has led the industry by constantly evolving to bring better solutions to each of its customers. With a wide range of options to consider, Phenix Label chose OMET as the **perfect partner** for the modernization of its converting plant starting in 2016 a great collaboration.



"Our mission is to be the best in the industry" – says Todd Fatino, Phenix Label Vice President of Innovation – "We lead our industry by promoting teamwork and integrity in a family-oriented culture. Through innovation and continuous improvement, we provide superior quality and unmatched service. Established in 1896, Phenix Label is today at 4th generation family owned by Hans M. Peter. "With peerless quality and unmatched service – continues Mr. Fatino - we have grown over the past 100 years to offer our loyal customers much more than labels and packaging. Today, we bring advanced technology to package design.

We bring an unwavering commitment to quality and service. We bring our culture of accountability and a dedicated team of professionals who take pride in promoting customers brand and products".

It is no accident that name of company is Phenix. Like the mythical bird symbolizing strength, growth, rejuvenation, and rebirth, we adapt to meet the ever-changing needs of clients. "We are not afraid of change nor the evolution of the industry – declared Mr. Fatino - In fact, we embrace it".

Before modernization of its manufacturing equipment, Phenix spent 1.5 years investigating the current





printing press technology before deciding on OMET. "We travelled to the press manufacturers site as well as individual converting plants – tell us Mr. Fatino – utilizing the various types of printing presses. Some of the deciding factors were technology/engineering, family owned company for 50 plus years, diversification... tissue machines, ball bearing division..." After a first OMET X6 530 installation in 2015, Phenix Label installed 2 OMET iFLEX 370 and 2 OMET X4 370. It means 5 OMET presses in 3 years. Latest press is a 10 color X4 equipped with GEW LED curing technology, corona treating, web cleaning lamination, sheeting

and cold foil. Phenix continues to modernize their plant with new OMET press's and phasing out of the existing Aquaflex/Instaflex technology.

"Our marketing target is to delivery the WOW factor to our customers – explains Mr. Fatino – We don't just take order, we work with the customer from start to shelf to create consistent and compelling package design. OMET presses really help us in quality and quick delivery to our customers. Plans are to purchase additional OMET presses in the future – says Mr. Fatino – Looking forward of being a partner with OMET for a long long time".



## IDEA SRL SUCCESSFULLY TESTED THE FIRST FULL-LED PRINTING MACHINE IN ITALY FOR LABEL MARKET

Founded in 1994 near Parma, **Idea Srl** is specialized in tailor-made solutions dedicated to a specific niche of the market where superior quality and service are the main requirements. With 15-year business experience, Idea has developed a **deep knowledge** of the market and a **specific know how** in paper and self-adhesive printing.



*Bacchieri Cristian, Bacchieri Mario, Bacchieri Massimiliano*

The installation of the new 10-color OMET X6 430 with UV LED system, commissioned by the Italian company Idea Srl a few months ago, was successfully completed at Idea's production site of Vicofertile (Parma) with a great collaboration and a perfect synergy between OMET, AMS Spectral UV and Flint. The machine is dedicated to the production of premium labels, thus its very complex configuration includes a set of addition-

al units for final product enhancement and a UV LED curing system provided by AMS Spectral UV.

During the acceptance test, different printing technologies were tested on several materials, both PS adhesive and unsupported film, with excellent results. Mario, Massimiliano and Cristian Bacchieri, main representatives of Idea Srl, could not hold back the excitement for the impressive result achieved, fruit of





the great teamwork done by all the players involved in the development of the machine.

The Bacchieri's family is a brilliant example of how being pioneers can be risky at first, but at the same time very successful thanks to that very trailblazing mindset. This is what characterizes high-level entrepreneurs and helps companies standing out of the crowd by obtaining a leading role even abroad.

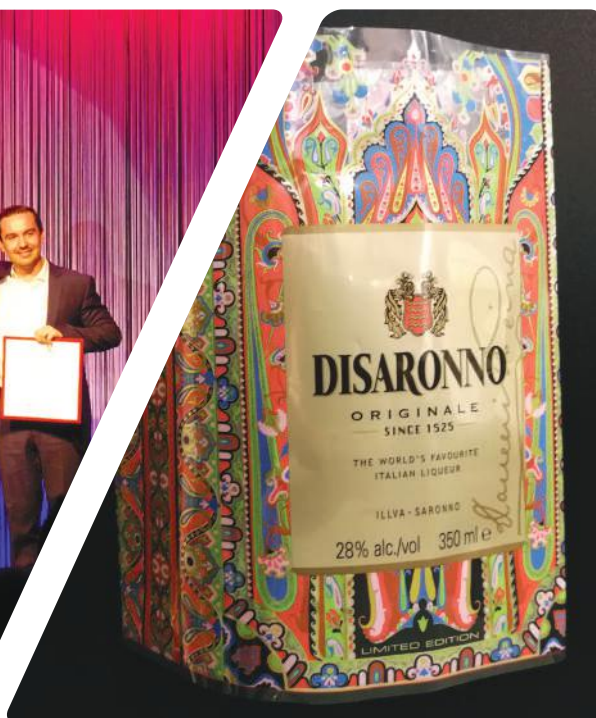


Thanks to great commitment in research and development, Idea Srl can provide specialized and exclusive solutions that generate added-value products, obtaining the nickname of "The Self-Adhesive Paper and Film Boutique".



## BEST IN FLEXO 2017 AWARDS TWO SUBJECTS PRINTED WITH OMET X6

Important acknowledgement for two historic OMET's customers: **Industria Grafica Eurostampa**, renowned international company specialized in the production of premium labels, and **Idea Srl**, Italian label printer getting through a strong growth, won the first prize "Bestinflexo 2017" in their corresponding categories.



The Bestinflexo 2017 award ceremony dedicated to the best Italian flexo printers, organized and sponsored by Atif association, was held in Bologna on November 14th during the annual Flexo Day event. Industria Grafica Eurostampa obtained the winner's spot in the category "Flexo print on narrow-web film", with the subject "Amaretto di Saronno", while Idea Srl won the first prize in the category "Combined use of flexo print" with the subject "Tesori d'Oriente", both printed on OMET X6.

The two companies, together with the other winners of the national awards, are going to be among the candidates at the FTA Europe Diamonds Award, whose prize is reserved to the excellence of the European flexo print scenario. This acknowledgement will be assigned next year on May 30th in Milan during the

Print4All exhibition, great international event dedicated to the entire printing business.

Atif (Associazione tecnica italiana per la flessografia) established the "Bestinflexo 2017" award in 2015 with the purpose of enhancing the quality of flexo printing in Italy.

The OMET X6 is the most appreciated machine on an international level in terms of technology and innovation among all the narrow- and mid-web flexo presses for label and packaging printing. It offers enhanced performance, unique flexibility and high quality on a wide range of final applications in order to satisfy any customers' request and implement specific tailor-made solutions.



DM-LINER® and DISTORUN®

# STRIKING FINISHING ADD-ONS



## DM-LINER® UV-INK Built-on

Metallic inline finishing in flexo printing can now be produced digitally with the new built-on module from KURZ. The advantage: the metallization can be individualized and personalized efficiently.

The compact retrofit module can be flexibly positioned anywhere in the flexo printing system via a rail system and assigned to a printing unit. The DM-LINER® uses the corona unit, LED lamp and pressure roller of the flexo machine. The central control unit, UV ink printing unit, foil feeding and unwinding unit are integrated in the module.

In this way, mass customization for health care products, exclusive spirits etc. can be realized, for example with personalization or country-specific information.

## DISTORUN®

With the new DISTORUN® module from KURZ it is now possible to transfer single image motifs in cold foil finishing with register accuracy. The module can be integrated into flexographic printing machines and opens up new perspectives for label design.

In this way, holographic authenticity marks can be realized to strengthen brand confidence, or attractive decors such as lens designs can be applied with a depth effect.

Additionally, DISTORUN® can also be used to save foil due to the non-continuous exact foil feed.



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## TWO GREAT AWARDS FOR EMIRATES PRINTING PRESS

**FTA USA** and **EFIA UK** recently awarded the Luxury Desk Calendar 2018 created and printed by **Emirates Printing Press** (UAE). It is a great result of the collaboration between Emirates Printing Press and OMET.

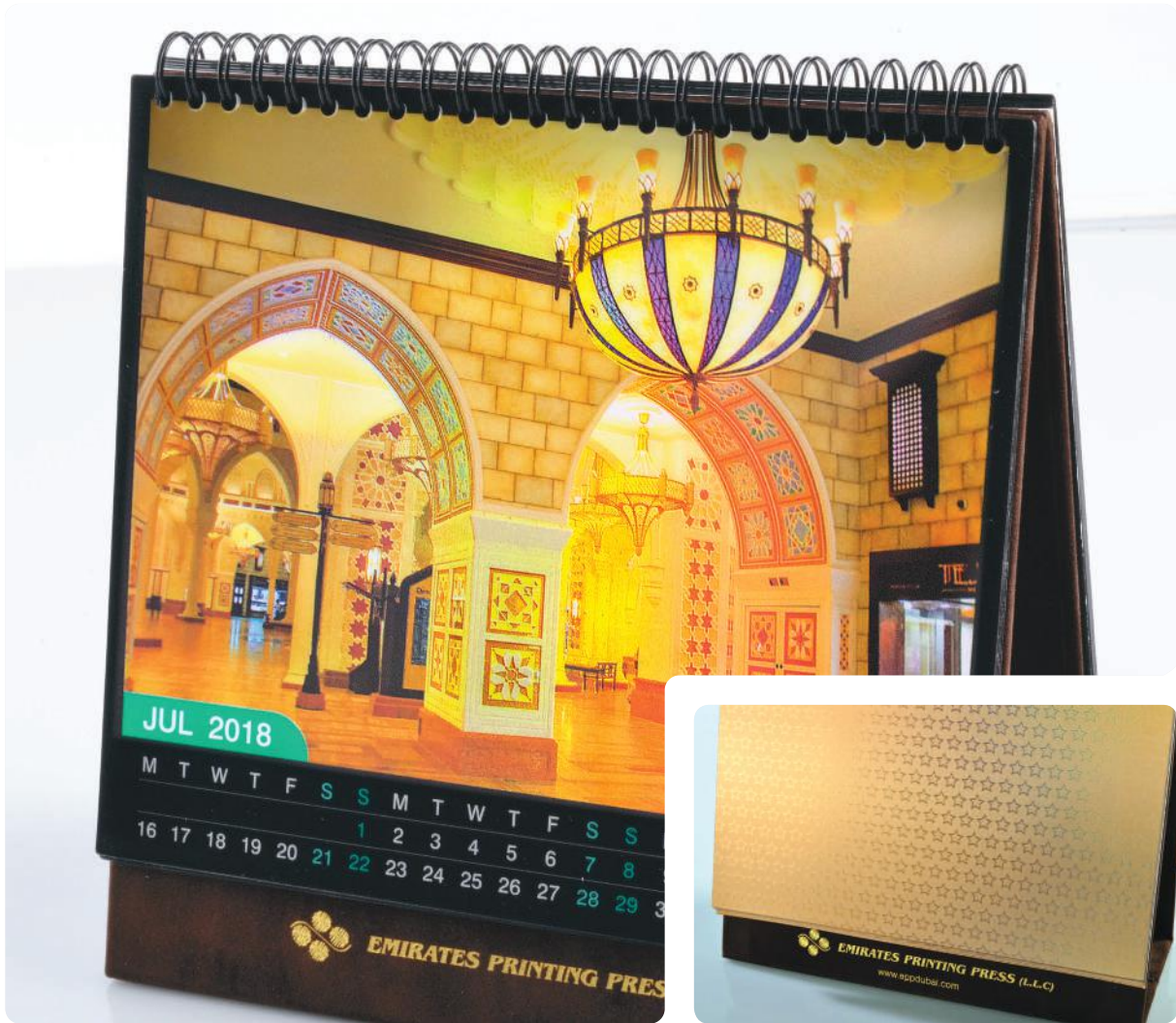


For two consecutive years, Emirates Printing Press has printed their luxury desk calendar with OMET Varyflex V2, using a sophisticated mix of printing technologies on different layers. This year, the Flexographic Technical Association (FTA), U.S.A. and European Flexographic Industries Association (EFIA), U.K awarded The Luxury Desk Calendar 2018, dedicated to the "Dubai interiors" (see pictures below). The 2018 version stimulates the complex mix of high-end printing and added-value finishing which can be combined in-line. OMET is proud to be associated with EPP with two rotary flexographic printing machines: one Varyflex V2 flexo and one X6 hybrid.

Operating since 1974, Emirates Printing Press is a leading Commercial and Folding box board packaging printer in the region for Beauty & Health care, Food & Beverages and Tobacco packaging. In 2015, EPP expanded their business portfolio with state-of-the-art flexible packaging plant.

600,000 square feet with 800+ employees make them one of the largest printing companies in the United Arab Emirates. EPP pride themselves on their global client base and strive to provide modern in-house facilities for their customers. It is a one-stop solution for all your printing needs with its Design, Pre-press, Press, and Post-press departments, all under the same roof.





Some of their exclusive specialties are the state-of-the-art sheet-fed offset, rotogravure and flexographic printing technologies with in-line metalized lamination and finishing like cold foil, hot stamping, security print, embossing and die-cut, all in one single run. OMET express their appreciation to the Chief Executive Officer, Mr. Mohamed Al Shirawi and Chief Operating Officer, Mr. Samuel Natarajan for their choice and continuous cooperation and wish the entire team a great 2018.

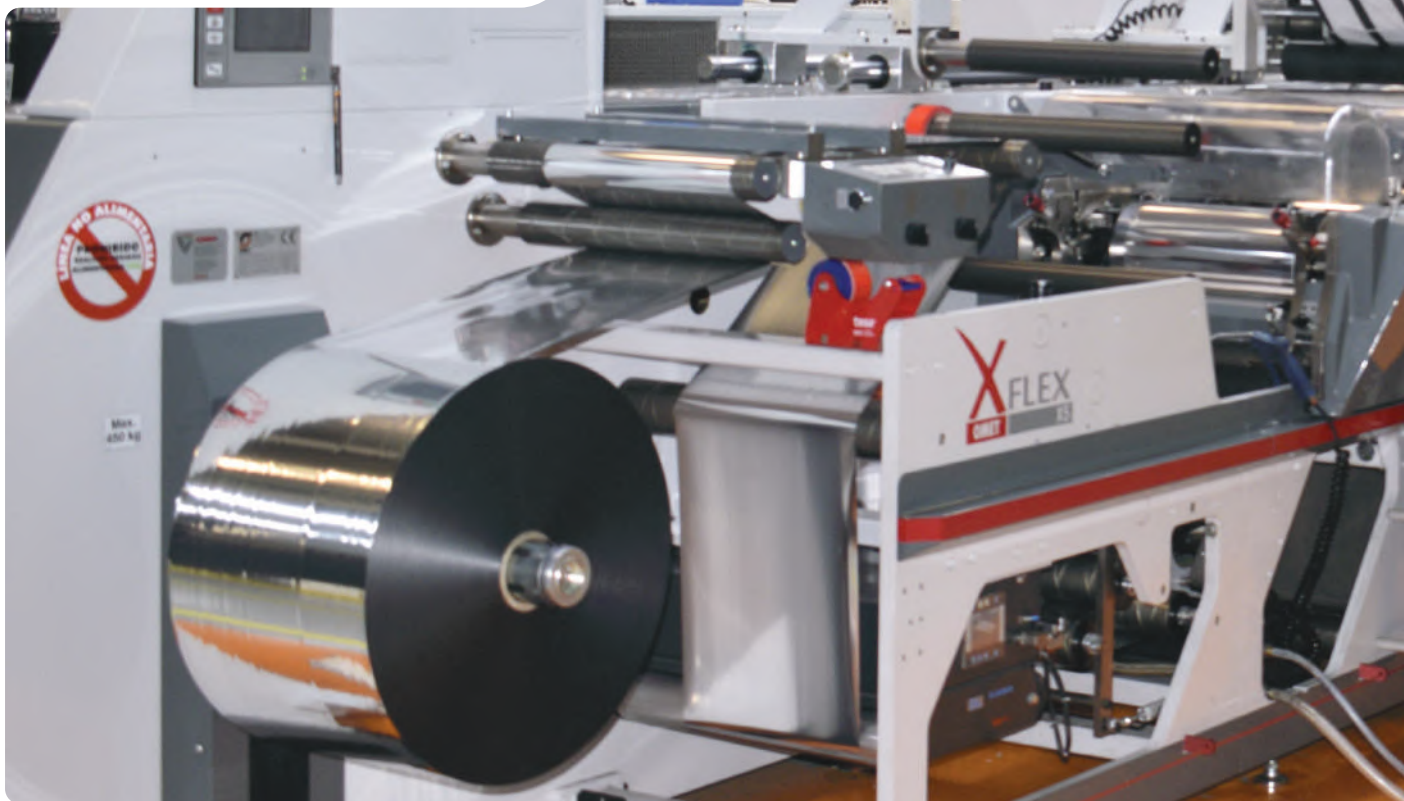


Mohamed Al Shirawi and Samuel Natarajan  
(Emirates Printing Press)



## CORETI (SPAIN) AIMS HIGH INVESTING IN OMET MACHINES

Three OMET lines installed in one year. Coreti, **Spanish company** based in La Coruña considered among the best printers in the Iberian region, is really enthusiastic of **OMET technology**, which was able to meet their necessities through different solutions.



Coreti was founded in 1991 by the general manager Luis Fernández Vilela and was grown in the world of graphic arts. Now it is a company dedicated to the production of adhesive labels and can count on more than 25 years of history and experience in this sector. The company went through a big growth and expansion in the last few years. This brought Coreti among the top-ten label printers of Spain. This result was achieved thanks to the effort, the tenacity and the hard work of the management, but also to the precious contribution of the skilled team of operators. Currently, Coreti has more or less 110 workers. Celso González, Coreti CEO stated: "Together we are a 'big

family'. Our team is wide, involved in the company, with a big experience in the sector and with the desire to learn, train and renovate all the time".

Coreti has a single location in Polígono de Bergondo, in La Coruña. The building was recently renewed and inaugurated. It is located on a surface of more than 7000 m<sup>2</sup> and counts on 4500 m<sup>2</sup> of built area with 1000 m<sup>2</sup> dedicated to offices on three floors. "This larger infrastructure allowed us to expand our production capacity and to support Coreti's expansion and growth in the last few years – explains González -. We can rely on a wide commercial network that includes Spanish territory as well as a part of Portugal, even if





*Photo: from the left Mr. Luis Vilela (President of CORETI), Mr. Enric Pont (OMET agent for Spain and Portugal) and Mr. Celso González (Executive Product Manager of CORETI).*

our labels go much farther. We have started to export our labels to other countries, but we are already present in every country thanks to the growth and the expansion of our customers. As we grow with them, our labels always accompany their product everywhere". Coreti produces labels for different sectors, especially for wine, beer, oil bottles or gourmet products, as well as in industrial activities such as food, logistics or distribution and others. "We print our labels using all the printing technologies existing on the market – says González -. We have digital, offset, flexographic and silk-screen printing press. Furthermore, we try to constantly innovate the materials and the finishing, in

order to make our labels stand out on the market". Coreti's CEO says that "technologies at our disposal allow us to offer a wide range of solutions to our current and potential clients, including silk-screen, glitter, hot stamping, varnishing, embossing, special die-cuts, variable data or backside printing, booklet labels, and others. Thanks to our constant commitment, Coreti has become the reference in the production of labels for wine, beer and oil sectors, in which we grow in volume, year after year. For this reason, we try keep up with all the innovations and attend all the events related to them". ▶



"We believe that our strength is the constant commitment that we dedicate to satisfy the customer in all his orders. We put quality, constancy and good service. In fact, we consider that all our values benefit both our clients and ourselves" says González. "We inform, suggest and help solving problems, because we are not only label producer. We try to get to know our customers and their products, in order to help them with the best dedicated suggestions".

#### **The collaboration with OMET**

"The cooperation with OMET started at the beginning of 2017 – says González - with the installation of one OMET XFlex X5 with ten colors. A new model dedicated to the production of label but also prepared to print on flexible packaging and on folding carton up to 250 g. In addition to this purchase, we bought two other presses from OMET, another XFLEX X5 with six colors and a 4-color IFLEX, the latest of our machine range".

"OMET press stands out for robustness and precision, as well as for flexibility that allows personalizing its configuration according to the user's necessities – adds González -.

The XFlex X5 is an ergonomic printing system that does not require any direct intervention of the operator, thanks to the Vision 1 system for automatic register adjustment and control. You can work with different materials and, both rigid and flexibles, maintaining a basic configuration. It also permits to use both UV ink and water-based ink, if the press is equipped with a combined drying system with hot air and UV cassettes. This press integrates a chill drum on every print unit, which prevents the heat from affecting the substrate, a crucial detail if you work with films or plastic materials.

The in-line integration of silkscreen printing unit, cold Foil, web turn bars, print on adhesive significantly reduce waste levels, time of set-up and run-to-register. With OMET presses we can make peel and seal jobs quickly and easily and they gave us the opportunity to integrate silk-screen printing technology, being able to produce labels that require up to 10 colors, one of which printed with silk-screen unit. The service has always provided fast and clear support to the few problems we have had until now".

# NEW

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All for dreams



## DOCTOR BLADE TO ANILOX CELL COUNT: RATION & RELATIONSHIP

If we look back as little as five years ago one of the biggest drivers in the Flexo market was pushing press speeds to over 2,000 feet per minute. For the most part all of the press manufactures accommodated the printer. It seems as of late; it is not about the speed of the press but the speed of the press crews and how fast they can change from job to job. The average print job running on press today is about a third of the length that it had been in the past. The printer cannot keep rolls of printed stock on the shelf as in previous years. They now have to "Print on Demand" for their customers. The customer base of the printer wants more shelf appeal for their product. They are achieving this with brighter colors, sharp images and year round promotional packaging. The good news is that the printers have done a nice job and adapted to this type of pressroom atmosphere of short runs. The bad news is, they are short runs. Now the dilemma for the printer is how do they make a profit for the company, on actual printing or on job changes? Either way they must be very efficient in what they do, and we are going to look at one aspect of how a printer can make it efficient for their pressroom.

### Tip Configurations

If you have to change doctor blades on every make ready, you are wasting valuable press time and you may be in need of a doctor blade make over.

Let's look at a few things doctor blade and anilox roll related to help speed up the process of job changes. First let's review the four basic styles of doctor blades. The base of any doctor blade is straight steel as seen in fig.1 this simply means as stated "straight" with no machine tip on the blade. You can place either edge to the anilox roll and it will perform the same. In fig.2 is a radius tipped blade, as you can see both edges have a rounded tip and also both can be placed against the anilox roller (only use one edge of blade, never flip the blade and use both tips, this is a safety hazard and also can cause anilox roll damage) In fig. 3 we get into the detailed tip configurations with the bevel blade. The most common beveled angles would be 3, 5, 10, 15 and 45 degree. There are exceptions for special printing and coating applications where bevel angles go outside of these parameters. Looking at fig. 4 we have the Lamella tip,(often referred to as a stepped blade) this doctor blade was first manufactured and patented by Max Daetwyler Corporation in the early 1970's and since then has become the largest selling and most standard doctor blade around the world. The lamella tip blade comes in many different tip thicknesses. Every manufacture has standard tip sizes they use, lamella tip thicknesses range from 50 microns up to 200 microns, the most common being 75, 95, and 125 microns.



Figure 1  
Straight Steel



Figure 2  
Flexolife Radius Tip



Figure 3  
15° Bevel



Figure 4  
Standard Lamella Tip



### Choosing the Correct Doctor Blade for your Printing Type

With these four basic tip configurations available we can now plan on using a few parameters to decide what doctor blade fits your printing type/style best. First make sure you have your Original Equipment Manufacturers doctor blade specifications. If you have a different OEM for your holders or chambers from your press manufacturer, be sure to use their specifications. Almost all of the before mentioned doctor blade types come in widths ranging from 0.393" (10mm) – 3.5" (90mm), and in thicknesses of .004" - .012". The most common steel type used is White Carbon Steel, so typically we can start with that as our base. Next, let's answer a few questions; 1) what type

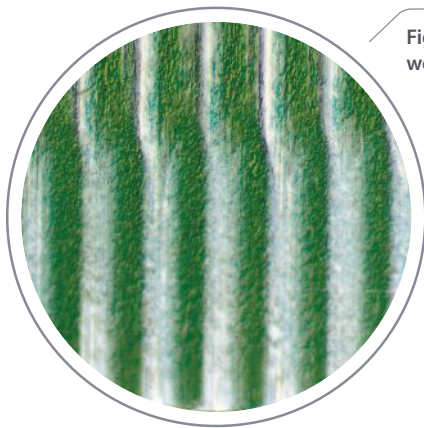
of ink do I use? Solvent, UV, or water based, if water then you may need to look at using Stainless steel. 2) What kind of run lengths do I have on my schedule? 3) When do I want to change my doctor blades? (Once a day, twice a week or once a week) this will help determine if you need to explore coated doctor blades for longer blade life. 4) What is my anilox roll line screen count? This key information is what will help you determine the best direction for your doctor blade choice. If you look at chart in Fig. 5 you can see how we can categorize a few different blades by the anilox roll line screen. The higher the line screen the thinner the tip you will need to achieve a clean wipe of the anilox roller. This in turn will provide a clean ink transfer to the plate and a crisp sharp printed image. ►

Figure 5

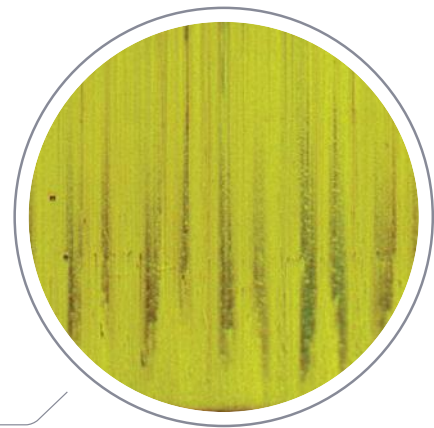
Anilox Roller Line Screen					
Blade Tip Thickness	400 ls	600 ls	800 ls	1000 ls	1200 ls
.075 Microns					X
.095 Microns				X	
.125 Microns			X		
.150 Microns		X	X		
.200 Microns	X	X			
.250 Microns	X				
Recommended Tip Style	Straight steel, Radius Tip	Radius Tip	Radius tip, Lamella	Bevel, Lamella	Lamella

With all these different doctor blade types to choose from it can get to be overwhelming at some point, so why so many different doctor blades? If you look at Fig. 6 this is a picture of the tip of a doctor blade that comes into contact with the anilox roller. You can see the heavy wear patterns of this on the doctor blade. There is nothing wrong with this picture, it just shows how a low line screen count roller like a 200 wears the doctor blade. Compare that to Fig. 7 and the same

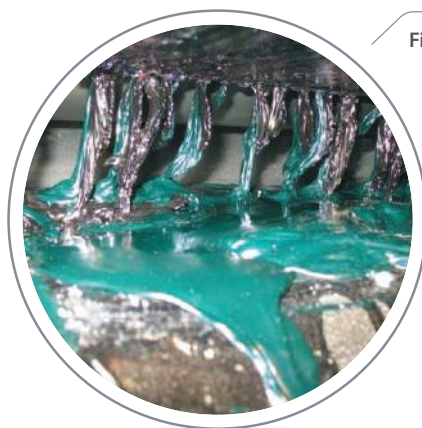
doctor blade type ran on a 1000 line screen. You can see the smooth wear pattern of the higher line screen roller. So do you run the same doctor blade on both rollers? If you said yes you are probably changing the lower line screen doctor blades two or three times more often because they will wear at a faster rate. As a general rule, anytime you change anilox rollers in a unit and go plus or minus 100 LPI you should always change your doctor blade as well.



**Fig. 6 - 200 Line screen anilox roll wear on a doctor blade**



**Fig. 7 - 1000 Line screen anilox roll wear on a doctor blade**



**Fig. 8 - Ink Leaking**

Each anilox roller has its own unique pattern it wears into a doctor blade and if not changed the old wear lines can show up in the print. One more choice that will need to be made in chambered units is the set up type. Will you run a steel blade in the top and bottom or a steel blade as the metering and a plastic/ Mylar blade as a containment blade? The main reason

for a Mylar as containment would be to help control back doctoring, shown in Fig. 8. Back doctoring happens when two steel blades are used and there is ink left on the anilox roller the plate did not remove for transfer and gets wiped off by the containment blade and runs down the front of the holder causing an "Ink Leaking".



### Installation

As with all doctor blades proper installation is another key component to performance. Making sure the holder is clean of ink and the doctor blade lays flat in the holder with no waves is the first step.

If your doctor blade of choice has a machined tip (Lamella or bevel tip) the second part of the installation check will be to insure the tip is installed properly. Always make sure the machined tip is away from the anilox roller as seen below in Fig. 9.

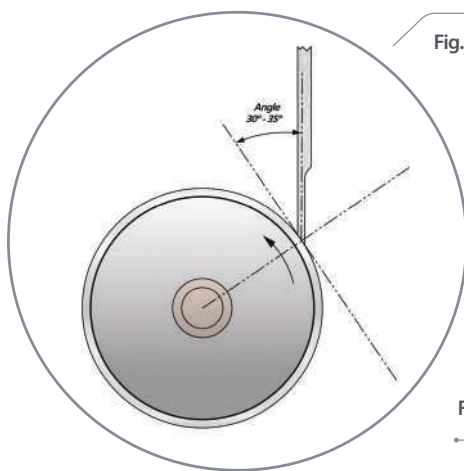


Fig. 9 - Ink Leaking

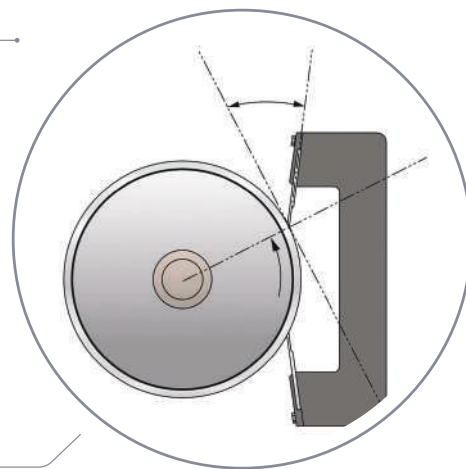


Fig. 9 - Ink Leaking

### Closing

Please remember that these are just guidelines for a good starting point for your doctor blade selections. Also, don't forget every press and pressroom is different, as your job mix can be different from week to week or even day to day, so you may end up using different types of blades on each press. This is not an ideal set up in the pressroom but sometimes like I mentioned job mix makes the difference. There are a lot of obstacles in the way sometimes that we have no control over on the press, but if you use these

points of knowledge and charts as a reference guide to get started it will make it easier to trouble shoot later knowing we have the proper doctor blade in the press. If you have any questions, be sure to get your doctor blade supplier involved, have them do press side training or classroom seminars. If they are worth their weight in doctor blades they have already done a pressroom evaluation for you and will be able to diagnose any issues you run into with a phone call or visit.



### THE AUTHOR: JOHNNY STAMEY

Johnny began his printing career in 1987 at RR Donnelley, Newton, North Carolina as a student in the Apprenticeship program. After 4 years and 8000 hours of combined education and practical experience, Johnny received his Journeyman Printer Certification from the North Carolina

Department of Labor. He worked at RR Donnelley as a Press Operator for 11 years before being employed at Keating Gravure – USA, Charlotte, North Carolina as a Proof Press Technician. In August 2000, Johnny joined the Max Daetwyler Corporation as a Technical Sales Representative. In 2004 Johnny was awarded the FTA's author of Excellence award for his article on doctor blade trouble shooting. In 2017 he was inducted into the Gravure Association of America's Gravure Cylinder Society. He is currently the Technical Product Manager for Daetwyler and covers the US, Canada and Mexico. He is actively involved in FTA, TLMI, and GAA. Thanks to Max Daetwyler Corporation for the authorization to use this article and pictures.



## UNIQUE SOLUTIONS BY OMET FOR A SMART CONVERTING PROCESS

The **converting process** is a strategic part of label and packaging production which involves time, costs and risks. To cope with these criticalities and streamline the processes, OMET has developed exclusive, integrated **in-line solutions** creating a valuable option for current and future customers.



Every printing line of the OMET product portfolio can be configured with unique die-cutting systems conceived to make the die-cut changeover quicker, safer and easier compared to standard processes that usually require long machine downtime.

The OMET iFlex, the OMET X4 and the OMET X5 can be supplied with the patented Easy-Change Die Cut – ECDC, a compact and ergonomic die-cutting unit that allows a job changeover in less than one minute. It makes the entire workflow easier and safer eliminating the need for a lifting devices. The OMET X6 line features an innovative and high-performing die-cutting module. OMET Twist is a smart unit with double cassette for smooth and effortless changeover operations. It simplifies the operator's life and minimizes set-up time thanks to the OMET Easy-Change Die Cut system, which enables the preparation of the die-cutting job off-line during production and the cylinder changeover with a simple push through the innovative OMET In&Out sliding device. After just a few seconds needed for the automatic pre-registration the machine is back in production. Numbers speak for themselves: with standard converting groups a full die cutting changeover may require 20 to 30 minutes, while with the OMET Twist

the same is done within one minute. OMET MonoTWINCut is the unique format-free die-cutting unit available on the OMET X6, which works with one single magnetic cylinder for all label shapes or dimensions, minimizing operational costs and changeover downtime. With OMET MonoTWINCut the only operation to be conducted is the change of the flexible die, while the magnetic cylinder remains in place. It includes also fully automatic pre-register and register control, which facilitates the from one die-cutting repeat the other, with no waste involved.

OMET is the only manufacturer to offer different, unique and patented solutions for the converting process. The OMET Varyflex line can be configured with different options dedicated to special applications, labels or cardboard production.

All OMET machines are designed to be flexible and provide customers with tailor-made die-cutting solutions for special applications. Modules for carton or paper window punching or for the production of dual-shape labels are available too.

OMET solutions provide added value and prove once again how OMET technology creates a real competitive advantage for its customers.





# ROSSINI

## Offset Narrow Web

### Hony Alu Plate

Plate mounting sleeve for use on roto-offset presses with variable printing. The aluminium outer is coupled to the core, coated in fibreglass, which guarantees perfect dimensional stability over time and suitable structural hardness to block the plates.



HD print level



humidity resistant



solvent resistant



protection ring



more productivity



manual handling

### Lito Blanket Narrow Web

Blanket mounting sleeve for use on roto-offset presses with variable printing. The basic structure encapsulated in fibreglass guarantees perfect dimensional stability over time. The external PU Evergreen layer has been tested with the industrial standards double sided adhesive tapes for perfect adhesion and removal. The protection steel ring integrates the register notch.



HD print level



humidity resistant



solvent resistant



protection ring

### Lito Plate Narrow Web

Plate mounting sleeve for use on roto-offset presses with variable printing. Made of a fibreglass sleeve and outer coating in PU Evergreen; an aluminium insert guarantees blockage of the plates and perfect dimensional stability. The protection steel ring integrates the register notch.



HD print level



humidity resistant



protection ring



hardness 75 ShD



## OMET X6.0 IMPROVES PERFECTION

Enhanced automation and technology 4.0 to reach a fully automatic independent process and meet any customers' need. The OMET X6.0 launched at Labelexpo 2017 raises the bar of technology and innovation set by the **OMET X6**, the most valuable and appreciated **narrow-web printing press** for labels and packaging in the international market.

The latest innovations introduced by this new line are meant to increase the efficiency and productivity of the whole process, by simplifying the operator's job through user-friendly approach and special units.

The OMET X6.0 integrates two new main innovative features: first, renewed flexo groups with automatic pressure adjustment and Cruise Control, providing the

possibility to automatically adapt the printing pressures at each change of repeat, material or production speed. Second, the Multivision system for faster printing register adjustment and control thanks to a set of smart micro-cameras, one on each printing unit, that enable the independent tuning of the register in real time, drastically reducing machine downtime and set-up waste.

**X FLEX**  
**OMET X6.0**





Exclusive special modules made by OMET can make even more difference in terms of efficiency and productivity: the TWIST die-cutting station, with “Easy-Change Die” system, a smart unit with double sliding cassette, which enables the preparation and of the die-cutting job off-line during production and effortless changeover operations in less than 1 minute. The Double Unwinder, a semi-automatic system that helps save time in the reel changeover operation, increasing the profitability of the press no matter the length of the run.

Thanks to the Transparent Factory system, all OMET machines are prepared for the constant monitoring of the working conditions and parameters. However, the OMET X6.0 can also count on new devices driven by

the concept of Industry 4.0. A concrete example is the use of the Smart Glasses: through the augmented reality, they can improve the overall performance of the operator with real benefits in terms of cost reduction, maintenance and productivity. The use of the Smart Glasses is mainly valuable in customer service support, since they allow for faster and more effective assistance operations. The outstanding performance in terms of flexibility, output quality and final applications, as well as the possibility to personalize the machine configuration, managed to impress those who had the chance to see it with their own eyes during the Labelexpo. The high number of requests for personal demonstrations proves the huge success of the OMET X6.0.



## HELF ETIKETTEN (AUSTRIA) INVESTS IN OMET OFFSET PRINTING SOLUTION

With the installation of the OMET X6, Helf Etiketten has become the “Specialist” in **offset printing** inside the Bizerba Group, German leader in labelling and weighing technologies.



*The staff got acquainted to the new press thanks to the good support offered by Chromos GmbH*

The investments made in 2016 allowed Helf Etiketten to achieve ambitious goals. The Austrian company, with headquarter in Wiener Neudorf, which operates in the label sector, aimed at widening the productive capability to satisfy the growing demand on the regional market and developing specific know-how to standardize the production.

Joachim Zeiler, Helf Etiketten CEO, explains: “After being acquired by Bizerba Group in 2015, Helf Etiketten had a remarkable growth followed by relevant investment in equipment and facility”.

### Entering the offset printing market

The installation of the OMET X6 had a great impact. The configuration of the machine, installed in august 2016, includes five offset printing units and three flexo printing units. Offset is the basic technology. Hannes

Fink, Operations Director, aims: “Even if offset technology was a new entry for the company, start-up was simple and fast. After less then one month from the delivery, we were ready to sell the products to the market”. In origin, Helf Etiketten worked in publishing and flexographic printing. Then, in 2007, the company invested in digital printing and started using the first HP Indigo system. The purchase of UV flexo machine, 530 mm wide, enabled the company to end the publishing business that was not profitable.

### New printing process: a conscious decision

The purchase of a new hybrid offset+flexo solution with the OMET X6 was the result of an accurate evaluation. Hannes Fink explains: “Austria and South Germany are more oriented towards offset printing and the growth in the local market was one of our





*In front of OMET X6: (starting from left side) Hannes Fink, Beatrix Hochleitner (Chromos GmbH) and Joachim Zeiler*

main goals. We thought that offset technology was the right choice to be more competitive. We evaluated the top-rated press suppliers. The first requisite was the width: Helf Etiketten works on 530 mm width both on conventional process and on digital printing; as a consequence many suppliers were cut off from the competition; in the meanwhile one of the possible supplier went bankrupt.

#### **A convincing solution**

The deciding factor was the presence of Chromos GmbH as commercial partner in the German market. "The offer was very persuasive thanks to performance, printing quality and automation technology, together with customer service before, during and after sales" explained Hannes Fink. Beatrix Hochleitner of Chromos GmbH, thanks to her long experience, knows

well the importance of the planning when a printer has to start with a new process. For this reason, Chromos office in Augsburg organised for Helf several press demonstration with OMET X6 operators in Leco (OMET Headquarter).

#### **An expert and reliable partner**

Joachim Zeiler affirms: "The collaboration with Chromos was excellent. The foundations of a contract are made by technical and economic aspects. The advice and support provided by Chromos in all phases have been crucial. They were always ready to reply to questions; there was a specialised staff ready in every moment and all the agreement were respected. Nowadays it's rare to find reliable partners like them".

"Even OMET pays close attention to the quality. ▶



*The OMET X6 offset integrates the automatic unwinder by Kocher + Beck*

The press configuration is suitable with Helf specifics in terms of costs and benefits. Furthermore, the press is equipped with Plug-In®-Label system developed by Bizerba for smart control of prices and goods labelling. The quality makes orders grow.

The majority of Helf clients are from Food and Retail market where printing quality and product standardization are extremely relevant, especially when printing long run jobs. Joachim Zeiler explains: "The decision of printing with offset technology was taken also to increase the orders and we have already achieved some results in this sense".

In terms of quality, offset printing mainly satisfies clients that seek for sophisticated products with complex details and fine balance between colours. Letterpress printing couldn't reach such results, whereas OMET X6 offset is able to satisfy orders where high quality is required. At the same time, even flexo printing jobs increased, given that they can be carried out more efficiently. Few months after the installation, the press was working in two shifts and the output was over every prediction.

High paper application thanks to IML label. An essential advantage for Helf Etiketten is the wide know-how of Bizerba Group in IML label industry, a constantly growing segment. For this kind of products, Wiener Neudorf production site can take advantages of special adhesive material produced in Bizerba labelling plant in Bochum. New press quickly under control.

Joachim Zeiler continues: "The introduction of new printing process was easy thanks to the support provided by OMET and Chromos." The operators acquired self-confidence in managing the sophisticated press system very quickly".

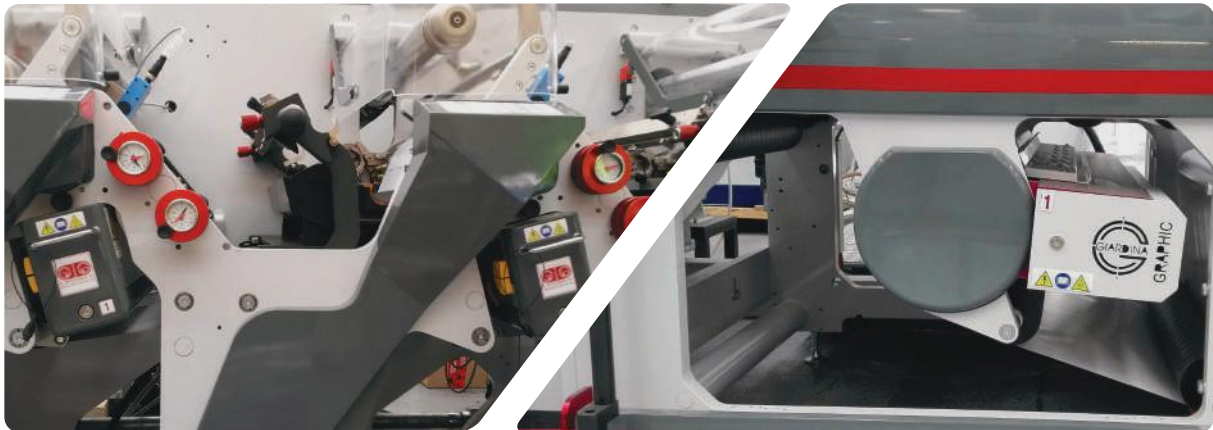
Currently the machine works at the average speed of 100m/min but Hannes Fink sees further optimizations by using the OMET X6 at its maximum speed of 200m/min. Helf expects to increase the press output by moving the die-cutting process off-line. GEW UV system has already been prepared to guarantee operations even at high speed. Low migration inks can be used at 100% on the press of Helf Etiketten.

### **Strengthen position in Austrian market**

Founded in 1948 in Wiener Neudorf, near Wien, Helf Etiketten GmbH has 66 employees and a 12-million-euro turnover (2016). Nine orders out of ten comes from Austria, the rest from Germany and Switzerland. In 2015, Bizerba Group took over the majority of the company. The well-known group, leader supplier in weighing technology and labelling systems, with headquarter in Balingen, counts on many plants with more than 100 million turnover in labelling sector. The Helf Etiketten acquisition reinforced his position in the Austrian market.

Thanks to Klemens Ehrlitzer and Chromos GmbH for allowing the publication.

## OMET AND GIARDINA GRAPHIC: A COLLABORATION BASED ON TRUST, QUALITY AND RELIABILITY



Every relationship, to be solid, lasting and profitable, must be based on three main elements: trust, quality and reliability. These are the very elements that created the long lasting collaboration of OMET Group and Giardina Graphic Group, which is part of the G Technologies group together with Brosiomeccanica.

Thanks to high performance and extreme reliability, Giardina Graphic's curing systems confers to OMET printing machines a strong competitive advantage that led to an even closer collaboration of the two Italian companies.

In particular, there are two systems by Giardina Graphic used on OMET machines: the RQN1 and RQW reflectors. The first with power up to 200 W / cm on maximum web width of 530 mm, the second can reach 240 W / cm, on web widths up to 850 mm.

The RQN1 reflectors are characterized by high ergonomics and compact dimensions, maintaining the robustness of the module. The internal surface is covered by dichroic mirrors able to reflect 98% of the ultraviolet radiation and absorb over 85% of the infrared radiation, an essential element for printing on thermosensitive supports.

The RQW reflectors are designed to meet the needs of particularly high-performance printing machines operating on wide webs. Extremely robust and performing, they are also internally covered by dichroic mirrors, providing the same benefits of the RQN1 reflectors. Both models are cooled exclusively by forced air systems.

The strength of these modules is the extreme flexibility. In fact, on both of them, it is possible to rapidly interchange the internal lamp body (DUO SYSTEM), maintaining the same control and power supply system (UV - TRONIC), with the possibility to switch from traditional arc lamps to the G-LED modern UV lamps. The G-LED system is among the most powerful and performing UV LED on the market today, with specific power up to 40W / cm<sup>2</sup>.

In case of arc lamps application, the UV TRONIC power supply offers the possibility to control the luminous flux, guaranteeing an energy saving of 30% compared to the industry average and longer life span of the lamp.



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## SECOND OMET MACHINE INSTALLED AT “PUBLISHING HOUSE OF BELARUS”



Engineers of the representative office of OMET CIS have recently completed the installation of Flexo machine OMET XFlex X6 530 in the State enterprise “Publishing House of Belarus”, the largest printing house of Belarus. The printing house has installed already the second machine of the Italian manufacturer OMET and this time 7-color machine series XFlex X6 530.

The equipment of the new machine fully meets the requirements of the customer who works in the market of flexible packaging. The capabilities of the new machine allow to perform high-quality multi-color printing even on stretching PE films, which is a unique technical feature of the OMET servo-driven machines.

The X6 series is a versatile series of flexo machines with a cooled printing cylinder, specialized for printing on various materials, including the printing of flexible packaging of 12 microns, self-adhesive materials, laminate tube materials, aluminium foil, paper and thin cardboard. The machine is characterized by powerful design, high quality of printing, register accuracy  $\pm 0.05$  mm, reliability and stability in work due to high manufacturing accuracy of all mechanical units and Vision electronics.

“The first machine OMET Varyflex V2 530 was purchased by us in 2011, and during the operation the machine was marked by its high reliability and flexibility”- says the technical director of the Publishing House.

“The machine is loaded with orders seven days a week in four shifts and it is with a very wide range of printed substrates, ranging from fine mono film of 20 microns and up to a cardboard thickness of 600 microns. Before the second machine was installed, the volume of PE film processing was 60 tons and PP 40 tons per month”. Thanks to the direct-drive technology of flexo printing unit with gearless technology, the machine care and operation are convenient and unencumbered by a large number of requirements.

Especially we'd like to note high qualification of service personnel of representation of the OMET CIS company, fast and in time service support and delivery of spare parts. We would like to thank the service specialists of the Hotline Service department of OMET, Italy and OMET CIS for their attention, effectiveness and professionalism”.





## BST ELTROMAT ITALIA “TOUCH THE IDEAS”

**“Don’t be blind, be conscious... test in advance what you need and invest in by BST eltromat’s Demo & Test Centre to assure the quality of your web production and the payback of your venture”. This is the proposal of BST eltromat Italia.**



The Italian subsidiary of BST eltromat International GmbH has set up a showroom by their premises in Saronno (VA) that includes a bidirectional rewinder for flexible material, running webs width up to 500mm, and a label inspection rewinder, kindly supplied by the historical customer manufacturer Prati srl, equipped with automatic station for defect & waste removal. Target is “to provide customers with the opportunity to test our systems on their printed (or un-printed) reels – says Roberto Maiocchi, Narrow Web Sales Manager of BST eltromat Italia Srl – so that they can better realize what are the benefits to print and convert a web by means of an efficient and reliable quality control tool able to guarantee an effective defect detection task and a complete workflow process thus shipping to customers only faultless products that comply with the job specification”.

“The technology has given us, suppliers of quality control system, the possibility to offer state of the art solutions so to produce better, with less waste and with more confidence – continues Mr. Maiocchi -. To dialogue with machine operator has always got highest priority by BST eltromat, which has considered information and interaction to them as the first and fundamental objective of the development of a product”.

The actual portfolio related to the label world consists of a wide range of high-end solutions designed to control the web in its alignment to the machine tools (EKR digital webguides with edge, print & wide array sensors), camera & fiber optic register control (AR4000 and Registrar\_20), printing visualization (Powescope 5000 and IPQ View), print 100% defect detection (Tubescan and IPQ Check), hand-held or stationary stroboscope. Attentive to the needs of the market in response to one of the most traditional and historical concern of the printing industry, in collaboration with x-Rite, a few years ago, BST eltromat introduced IPQ Spectral, in-line densitometric and spectrophotometric control solution that allows to measure the behaviour of the colour while printing without having to stop the machine and take a sample for the traditional static control, performing the operation dynamically and therefore offering useful values in real time and even suggestions to operator by means of dedicated software tools provided by BSTe International’s partner Colorbreeze so to carry out the necessary corrections with respect to the colour recipes of the print job for less waste and an optimal print quality.



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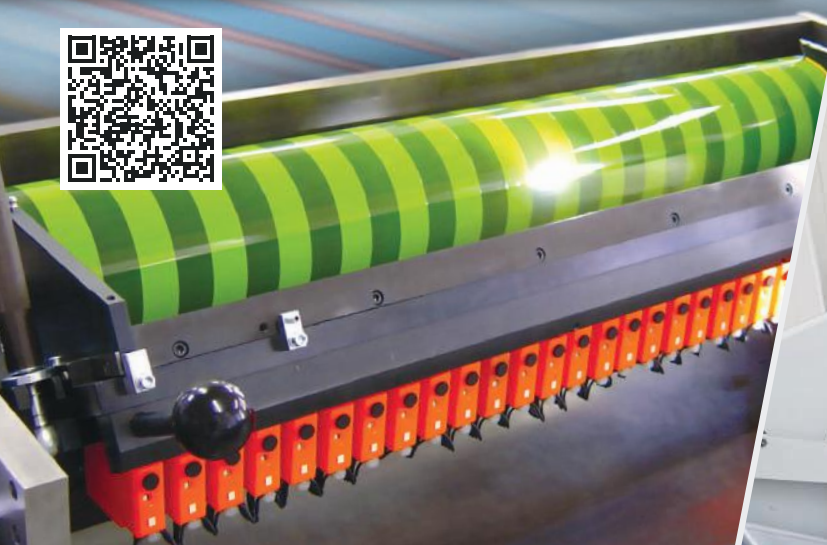
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## OMET: THE VALUES OF SPORT FROM THE COURT TO THE COMPANY

Challenges, competition, ethics, rules to be respected and maximum commitment. The principles of sport are the same as in business: for this reason, OMET takes an active part to promote it among his stakeholders, by **supporting** those who practice sports and **promoting** events on the territory. In 2018, OMET will organize a special event called "Omettiadi" (OMET Olympic Games), a competition between the different divisions of the group to celebrate the 55th anniversary of the foundation.



"The popular motto "Mens sana in corpore sano" is true today like many years ago – as President Antonio Bartesaghi explains -. Practicing sport is always useful for a correct psychophysical balance of the person that can express higher concentration and work more efficiently thanks to the natural benefit. Work generates stress and sport helps to let it off".

The reason of OMET commitment, it is not just the well-being of the employees. We really believe that sport teaches how to win professional challenges by shaping the character and getting used to team building. The comparison between sport and business is also useful to share a winning mentality and to enhance talents.

Mr. Bartesaghi continues: "In sport, as in work, there is competition, discipline, loyalty, teamwork, difficulties to overcome, objectives and the need to better express our skills. The context imposes precise rules of behavior and there is a judge (the customer) that must be respected even if he makes mistakes. Ethics is fundamental, we must work with respect for people, competitors and laws. The context of sports presents many similarities to the way we work in OMET. It's good to think that by doing sport and sponsoring sporting events we create adults, and also workers of higher quality, because they get used to share aspects connected to work".





This mindset has led the company to organize an internal sports tournament. It was proposed for the first time on the occasion of the 50th anniversary of the foundation. This year the "Omettiadi" (OMET Olympic Games) will be organized in a second edition in July and will involve all the collaborators of the various business divisions.

"For OMET it is a way to celebrate and acknowledge the good work and the intense participation of the employees in the life and success of the company". OMET chooses to offer a sponsorship to realities and organizations involved in educating people since childhood to the real values of sport and life and supports different local initiatives, especially when they

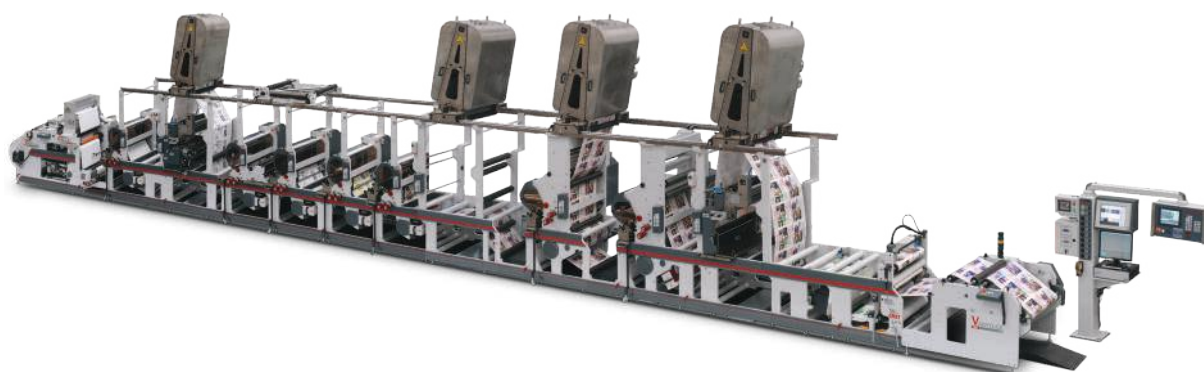
directly involve company's employees.

Marco Calcagni, OMET Sales and marketing director claims: "Sponsorship of local sporting events demonstrates the attention to the territory that has distinguished OMET Group since its foundation -. Our workers, their families, and all the stakeholders, who are related to the company and the divisions of the Group, are very sensitive to this type of commitment that is carried on in the name of the interest and sense of responsibility towards their hometown, from the lake to the mountains".





## SOLVENT-BASE FLEXO PROVIDES FLEXIBILITY TO OMET VARYFLEX V2



The OMET Varyflex V2 is the most flexible narrow- and mid-web press for packaging printing and converting on the market. Thanks to its unique platform design, it is able to combine a wide range of printing and finishing technologies in-line and satisfy the requests of the market. One of its most successful configurations, in terms of customer satisfaction, is integrates in-line both UV and solvent-base flexo printing units.

Solvent-base flexo printing is mainly used in food packaging printing, in particular on plastic films, laminates or aluminum material for yogurt lids. Solvent-base flexo inks are much cheaper than UV inks, but they need to be cured through specific hot air drying systems, which can also be produced on demand thanks to the unique expertise of OMET R&D in this field.

OMET is able to satisfy every printers' specific need thanks to a wide range of hot air drying modules, including high-performing blowers, with different dimensions to better fit into the machine. It is also possible to combine UV curing and hot air drying systems on the same flexo unit.

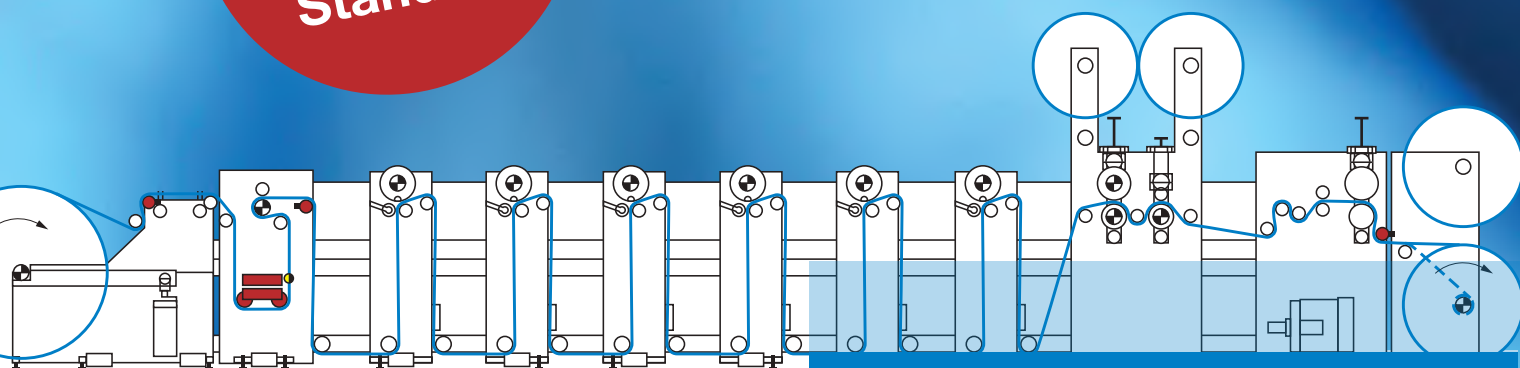
Rotogravure is another printing technology using solvent-base inks that can improve the performance of the OMET Varyflex V2, thanks to interchangeable groups that can be moved everywhere in-between the flexo stations according to the job to be printed.

Rotogravure is the ideal cost-effective solution especially for solid printing, metallic inks and special varnish applications.

Several successful installations all around the world prove the reliability and the high performance of OMET technology. Alfonso Melesi, OMET technical manager explains: "We designed also a few machines entirely prepared for solvent-base printing, other machines with one solvent-base flexo or rotogravure unit in-line for special color application, or exclusive projects featuring standard UV configuration with the addition of 2 rotogravure units, one in front and one at the end of the line. In this case, rotogravure technology is used to make compliant food packaging through solvent lamination, which doesn't allow for ink migration".

The OMET Varyflex V2 is available with web width 430 mm (16"7/8), 530 mm (20"7/8), 670 mm (26"3/8), 850 mm (33"4/8) and confers the possibility to print with solvent-base flexo or rotogravure technology in the full compliance with international standards and Atex regulations in terms of explosion-proof equipment, which guarantees a safe working environment.

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## AUTOMATION AND VISION SYSTEMS

DRB23



**Sistema di guida nastro brushless** per applicazioni web strette. Controller, meccanismo attuatore e posizionamento del sensore tutti in una singola unità. Attuatore brushless con encoder assoluto ed estremamente dinamico. Accuratezza di posizionamento  $\pm 0.1$  mm.

**Brushless web guiding** for narrow web applications. Controller, actuator mechanism and sensor positioning all combined into a single unit. Brushless actuator with high dynamics and absolute encoder. Guiding accuracy  $\pm 0.1$  mm.

SMARTSCAN



Sistema di telecamere **per ispezioni del 200%** per macchine da stampa e confezionatrici per nastri stretti. Adatto per etichette di carta, trasparenti e pellicole lucide. Sistema operativo rapido e time-saving.

Camera system for **200% inspection** on printing and finishing machines in label applications and narrow-web applications. Suitable for paper labels and for transparent and clear-on-clear labels and glossy films. Time-saving and rapid operating concept.

FE 52



**Il Sensore FE 52** è un sensore digitale a matrice di colori per l'acquisizione di linee di colore e contrasti di colore. È dotato di una sorgente luminosa integrata con adattamento automatico alle superfici opache e lucide.

The **Sensor FE 52** is a digital color matrix sensor for the acquisition of color lines and color contrasts. Integrated light source with automatic adaptation to matt and gloss surfaces.

ELSCAN OMS



**ELSCAN OMS** è dotato di 2 fotocamere da 12 Megapixel che garantiscono un'eccellente qualità delle immagini con riproduzione perfetta dei colori senza distorsioni apparenti nei bordi dell'immagine. Adatto a diversi materiali grazie ai metodi di esposizione commutabili.

**ELSCAN OMS** has two 12 Megapixel cameras which ensure exceptional image quality with perfect color reproduction without apparent distortion in the edges of the image. Suitable for different materials thanks to switchable exposure methods.



## A GREAT NUMBER OF OMET RECENT INSTALLATIONS IN CENTRAL-EASTERN EUROPE



OMET was born in 1963 and since the beginning had an international vocation, with first installations outside Italy already in the Sixties. First installations in Central-Eastern Europe were in the Nineties, and since 2010, OMET relies on PRINTLINE as a specific distributor. Thanks to OMET's portfolio, considered pioneer of innovation, PRINTLINE can offer a full range of top quality products that represent a new way of working and the possibility to satisfy the latest requests raised by the market.

OMET's packaging printing machines combine ease of use, low wastage levels, reliable non-stop operation, and efficiency on short runs. Robustly built and safe to operate, OMET's printing machines are built around the 'platform' concept, which refers to the possibility to set in-line a whole array of printing, finishing and converting technologies to print any product in one pass. All OMET machines are designed to be flexible and provide customers with tailor-made solutions for special applications. OMET technology creates a real competitive advantage for its customers, boost their efficiency,

and can be adapted to suit any changing (or future) need.

OMET's growth is running fast in Central-Eastern Europe. Some recent installations confirm the appreciation for OMET solutions in this area:

**1. HUHTAMAKI** Flexible Packaging Czech (former FI-OMO, a.s.). installed in 2017 the first OMET Varyflex V4 850 Offset press worldwide, a new machine specialized in high-quality flexible packaging printing, equipped with Electron Beam (food compliant) curing system. The machine can handle several kind of substrate with the maximum flexibility and the typical reliability of OMET technology. With its maximum mechanical speed of 400 m/min and the combination of Offset and Flexo printing technology, Varyflex V4 Offset is undoubtedly the best solution for printers specialized in flexible packaging production.

**2. PEMAX** Print, leading Czech manufacturer of labels located in Poděbrady, has just installed an OMET iFlex 370. This press is the narrow-web label press conceived to revolutionize the concept of flexo print, thanks to its





innovative and exclusive features designed to enable the best printing performance through user-friendly and quick operations. It is a real game-changer with no match on the market, able to support any label converter who needs to produce in one pass all type of labels with fast return of investment.

**3. TECOM** Paper, the renowned producer of self-adhesive labels in Prague has also decided to install an iFlex 370 press.

**4. RRE**, (Hungary) with an OMET X6 430 hybrid press (offset + flexo), installed in 2017. OMET X6 is by far the best narrow-web printing press on the market and provides printers with the opportunity to improve their production potential and extend their product portfolio with top quality results and sure return of investment. The union of the best flexo printing press with offset printing gives a real adding-value technology for the production of high-end labels and packaging.

**5. PERSPEX** (Hungary) with an OMET X6 430 flexo press, installed in 2017.

**6. M-FLEXILOG** (Hungary) with an OMET Varyflex V2

670 flexo+offset hybrid press, to be installed in the next few months. Varyflex is a narrow and mid-web packaging printing whose core is made of a unique platform concept designed to combine a wide set of printing and finishing technologies for added-value results in one single pass.

Here like in the rest of the world, OMET's leadership in the printing and packaging market is based on a solid reputation of excellence in the management of multi-process and hybrid technology, a high quality post-sales assistance and service, and continuous innovation. OMET's entire product portfolio including iFlex, XFlex X4, XFlex X5, XFlex X6.0, Varyflex V2 and Varyflex V4 Offset, can satisfy all kind of market necessities. The company's growth is based on continuous innovation that is realized through product advancements and the co-operation with the main players of the packaging markets. The ability to understand the customers' expectations and find the right solution to their problems drive investments in R&D, software and internal organization.

## PACKAGING AND LABELS: INDONESIA LOOKS AHEAD



The itinerant seminar “Labels and packaging into the 2020’s”, organized in Indonesia by Jet Technologies, local OMET agent, obtained high attendance and great enthusiasm. The event brought together many local printers in both Jakarta and Surabaya, in one of the markets with the highest growing trend in Asia.

“All the lectures had great success”. This is the comment of Paolo Grasso, OMET Head of Sales for Label Business, involved in the seminar with Dario Urbinati of OMET SEA. “Dozens of companies, including roto-gravure, offset and label printers, got involved in the event to talk about flexography, digital and Industry 4.0. We felt a lot of enthusiasm and I’d like to stress the excellent job made by all the partners of Jet, who were

able to introduce the latest technologies in a country still not ready for the 4th industrial revolution but in an ever-growing trend, thanks to a young and dynamic population and a constant economic growth”.

During the first day in Jakarta, the main subject of the meeting was “the expected evolution of the label and packaging sector in the next decade”, with a close focus on digital printing and a few relevant case studies. The following day was focused on the possible reconversions for the printers: switching from roto-gravure printing to flexo in the packaging sector and from sheet-fed offset to labels and packaging business, with different detailed studies on color and plate management. In Surabaya, the program was replicated for the





local printers, with a full day focused on the main innovation in the label and printing market.

Mr. Grasso and Mr. Urbinati gave a few presentations about profitability with mid-web machines for flexible packaging working in short runs, about print on special non-adhesive substrate and they presented OMET iFlex as the ideal printing solution for beginners that want to start a new business in the label and packaging market.

The other lecturers were Lee Chee Leong, Asahi Technical Manager, Micheal O'Sullivan, Sales director of Hybrid, George Lyle, Pulse Roll Label General Manager for Asia-Pacific, Chiara Prati, Sales and Marketing Manager of Prati, and Jonathan Lim, Sales Manager of Screen.

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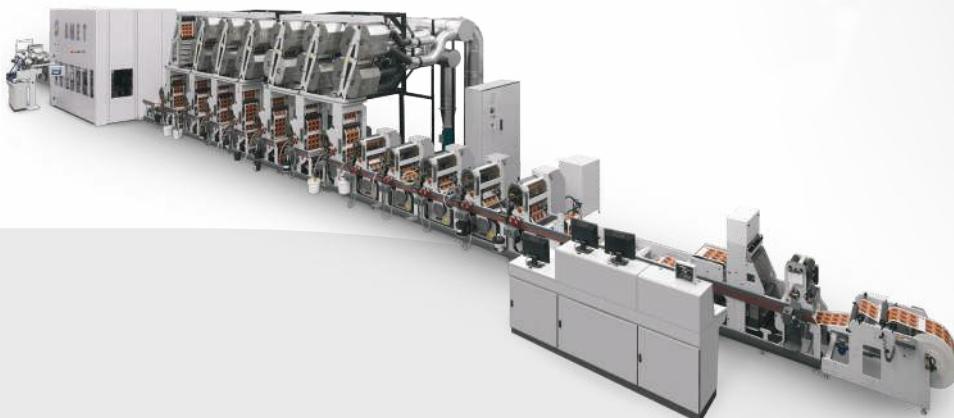
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- MORE THAN 1500 INSTALLATIONS
- AWARDED CONTINUOUS INNOVATION
- MADE IN ITALY PRODUCTS
- TAILOR-MADE SOLUTIONS
- CUSTOMER-ORIENTED APPROACH
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