

XFLEX

OMET X6



CHOOSE THE PERFORMANCE OF
XFLEX X6 HIGH-TECHNOLOGY
MODULAR SOLUTION

VERSATILE • RELIABLE • TECHNOLOGY

THE RIGHT CHOICE





THE PERFECT PRINTING SOLUTION

IMPROVING PERFECTION

The new **XFlex X6.0** is the natural evolution of the renowned XFlex X6 printing line, the real step towards **digital workflow and independent process**. It is going to set higher standards in performance and quality by preserving the strong points that made **XFlex X6** the best narrow-web platform in the market and integrating them with **state-of-the-art technologies and automation**.

XFlex X6.0 line enhances the potentiality of flexo printing and provides printers with the opportunity to improve their production potential and extend their product portfolio with **top quality results** and **guaranteed return of investment**.

TARGET MARKETS

WINE & SPIRITS

FOOD & BEVERAGE

HOUSEHOLD

INDUSTRIAL

HEALTHCARE

COSMETICS



YOUR NEW WAY OF PRINTING

XFlex X6 line is able to integrate **several printing and converting technologies in-line** and process all kind of substrates, from 12-micron film to light carton, producing many type of applications to satisfy the requests of different target markets.

PRINTABLE MATERIALS

- PS PAPER AND FILM
- UNSUPPORTED PAPER
- UNSUPPORTED FILM
- LIGHT CARTON
- ALUMINUM
- LAMINATES
- MULTI-LAMINATES

END-USE APPLICATIONS

SELF-ADHESIVE LABELS

WET-GLUE LABELS

MULTI-LAYER LABELS

WRAPAROUND LABELS

SHRINK SLEEVES

LIDS

TAGS & TICKETS

IML

FLEXIBLE PACKAGING

LAMITUBE

POUCHES & SACHETS



MAIN FEATURES

AUTOMATIC IMPULSE



A.I.R. FLEXO (Automatic Independent Registration)

The integration of **Digital Servo Drives** enables very accurate set-up operations and **automatic on-the-fly pre-registration** of the plates to get them in position simply by pressing a button, with no waste of time and material.

MULTIVISION

Color-to-Color **automatic register adjustment and control** based on a multiple camera scanning system. It can control both machine and cross side of each single printing unit **in real time** and get the machine ready to print in less than 1 minute, generating nearly no waste.



CRUISE CONTROL

The X6.0 guarantees an intelligent printing process with **the automatic positioning of the printing pressures at every** change of speed, substrate thickness and repeat length thanks **to motorized pressure setting** of both the anilox roll and the impression cylinder. **The "No Panic" function** gives the possibility to automatically reset the pressures and return to the initial settings by pushing a simple button.

DIRECT DRIVE

Flexo Direct-Drive technology and gearless concept eliminate even the smallest imperfection and allow the press to reach the purest quality with **no backlash and perfect register stability**, even at the highest production speeds.

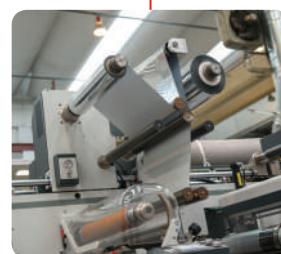
MULTI-PROCESS

XFlex X6 modular design allows to combined and implement in-line, with no limitations, **different printing technologies**, as well as **special finishing applications and converting units**, to always get to the final product in one single passage.

ROCK'N'ROLL DUAL FUNCTION

High-efficiency stripping unit suitable for any kind of label shape. Thanks to its **double operational capability**, it is able to work either as tower-style or contact-style stripping station, guaranteeing **smooth die-cutting operations** even at high speeds and with all kind of materials.

TRUSTED QUALITY





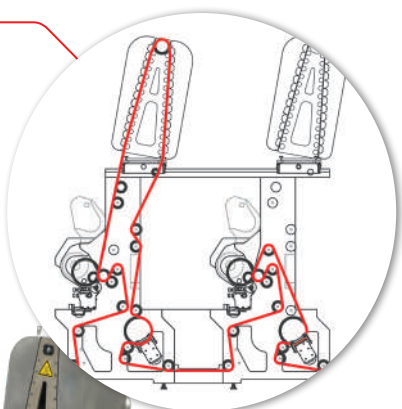
THE FLEXO PRINTING UNIT

The key strength of **XFlex X6.0** is the new flexo station, conceived to redefine the way of printing with **an automatic process**, from start-up to job changeover. X6.0's renewed flexo stations feature **automatic pressure adjustment and cruise control**, with the capability **to input automatically** the printing parameters at each job changeover, variation of material or production speed, setting **unmatchable quality standards** in label and packaging printing.



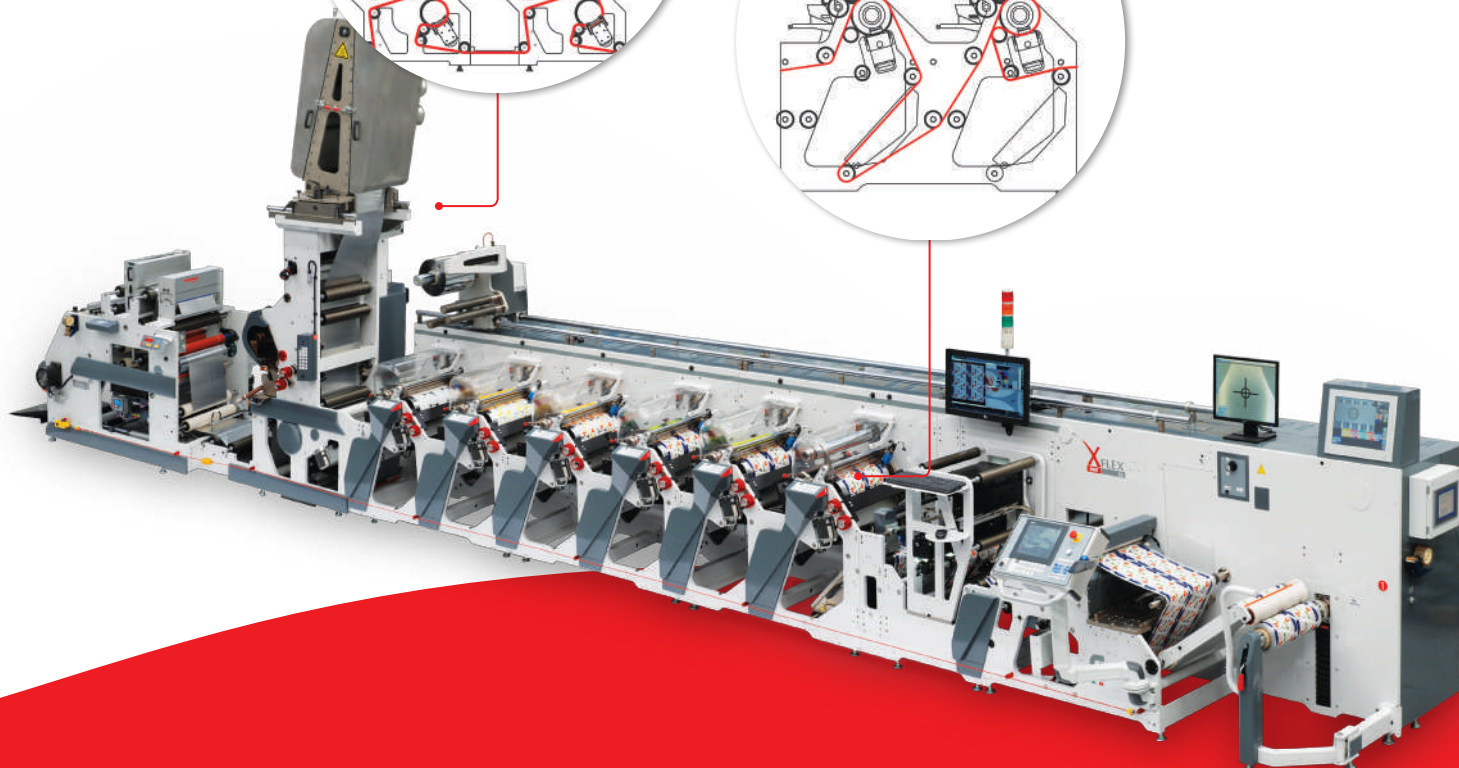
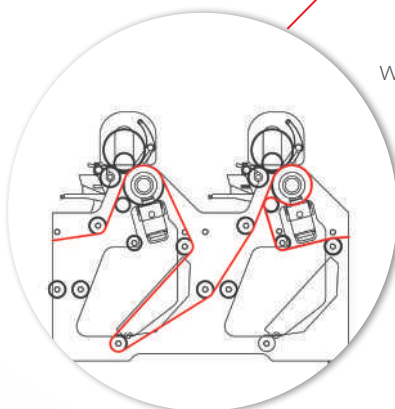
VERTICAL FLEXO CONFIGURATION

water base/solvent base - uv/uv led



FLEXO CONFIGURATION

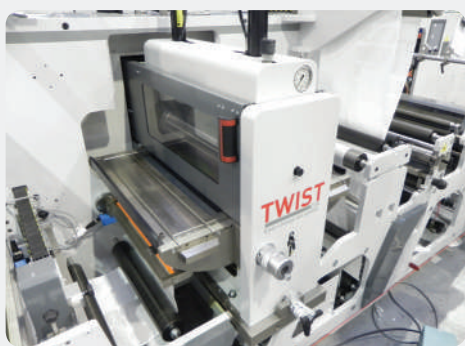
water base - uv/uv led



DIGITAL WORKFLOW

TWIST – Easy-Change Die

OMET Twist is the **special die-cutting station** intentionally designed for a smooth and effortless changeover operation. It can simplify the operator's life and minimize set up time, thanks to the **Easy-Change Die system**, which enables carrying out every job changeover with a simple move, through the innovative **In&Out sliding system**.



A complete restyling and a modern interface with touchpad controls makes the press even more user-friendly, **ergonomic and intuitive**, offering the operator a new working experience and the comfort of an **automatic and independent process**.

Automatic Pressure Adjustment



Intelligent Cruise Control



Direct Drive





TRANSPARENT FACTORY CLOUD

The **Transparent Factory Cloud** is a digital data management software enabling the access to all the productive information of **OMET** machine.

It helps the printer control and manage the daily production in order to better support the planning and improve the efficiency of the entire production process.

INDUSTRY 4.0

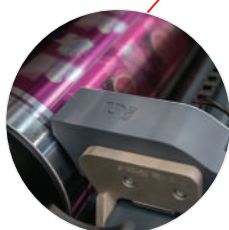
MACHINE CHECK-UP

RECIPE MANAGEMENT

DATA REPORT

ALARM DIAGNOSIS

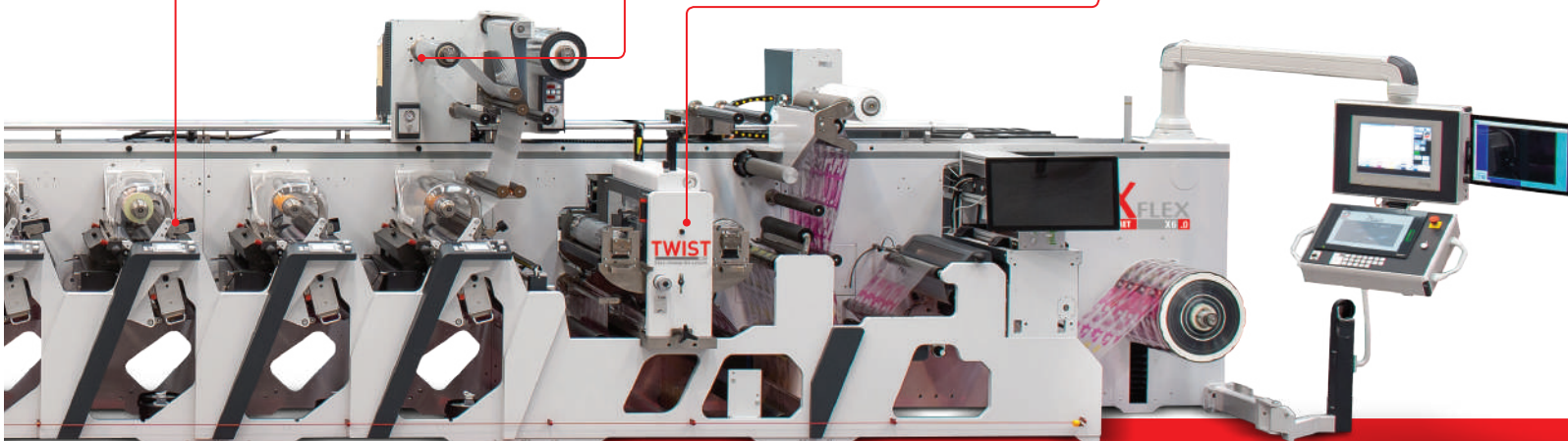
Multivision



In-Line Multi-Process Technology



TWIST Easy-Change Die



VALUE TO YOUR PRODUCT

REAL VARIABLE SIZE OFFSET

XFlex X6 Offset Sleeve is the expression of all the potentiality offered by **OMET** innovation in the narrow-web printing market.

OMET Offset printing technology is a real value add for the production of **high-end labels and flexible packaging**.

Thanks to its unique **variable-repeat sleeve technology**, **XFlex X6 Offset** addresses especially to converters looking for a high-performance press able to provide the best quality in long runs, but also high efficiency in short-run jobs, in terms of **pre-press cost savings and operational flexibility**.

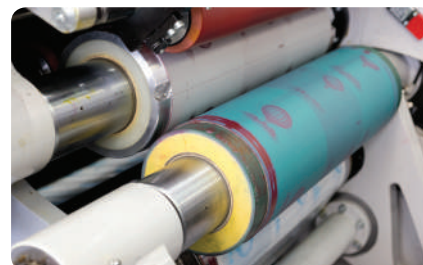




MAIN FEATURES

EASY SLEEVE FORMAT CHANGE

This innovative system is based on **OMET** patented sleeve technology with automatic pressure adjustment, which guarantees quick repeat changeovers and user-friendly operations.



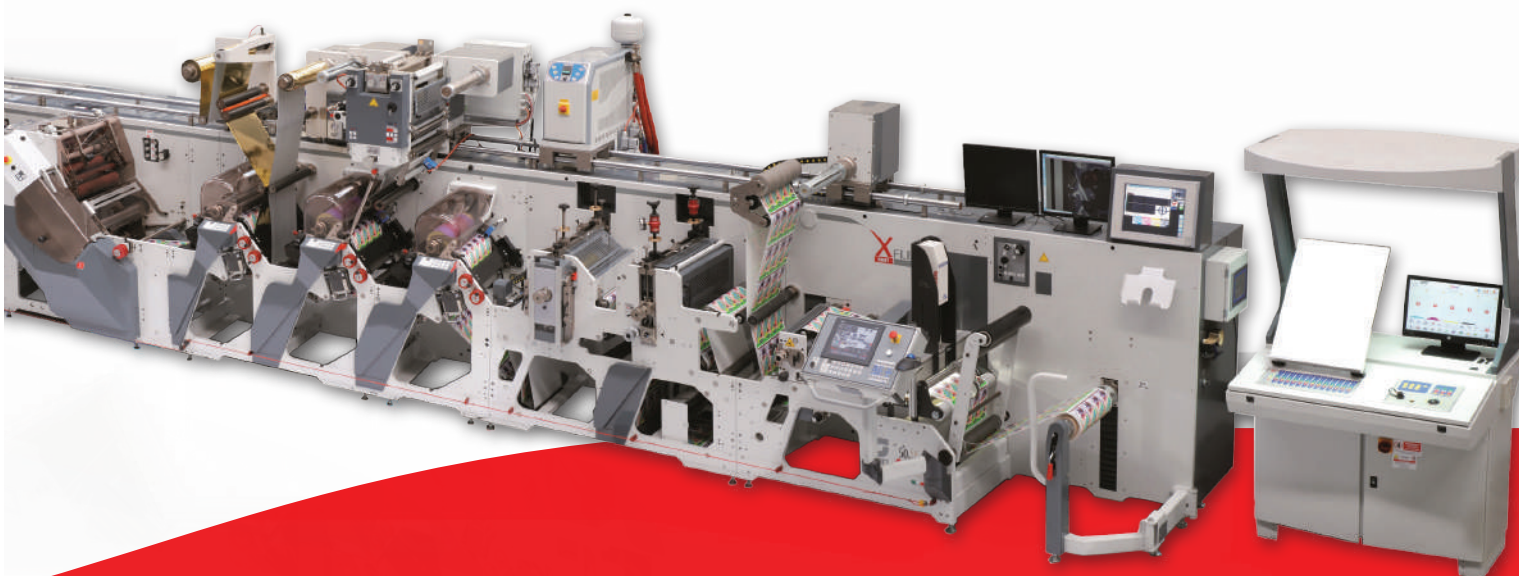
VARIABLE SIZE CONCEPT

X6 Offset features infinitely variable print repeat, ranging from 14" to 25", the widest on the market. The smaller sizes of the sleeves, and the low cost of the plates, give the possibility to cut equipment costs and have consistent advantages even in short-run jobs.



RFID SLEEVES

OMET Offset unit works with pneumo-locking sleeves available with fiberglass, aluminum or carbon fiber external tube and integrated RFID identification system for digital pre-press workflow.



OFFSET PRINTING UNIT

The **Offset printing** unit patented by **OMET** is the result of an innovative engineering design conceived to reach the best print quality with the maximum operative efficiency, thanks to:

High-precision ink distribution

Fully motorized and remotely controlled ink fountain blade with independent sectors.

Homogeneous ink flow

Ink train system composed by 21 rolls and dampening system with independent adjustment at variable speed.

Regular movement and perfect stability

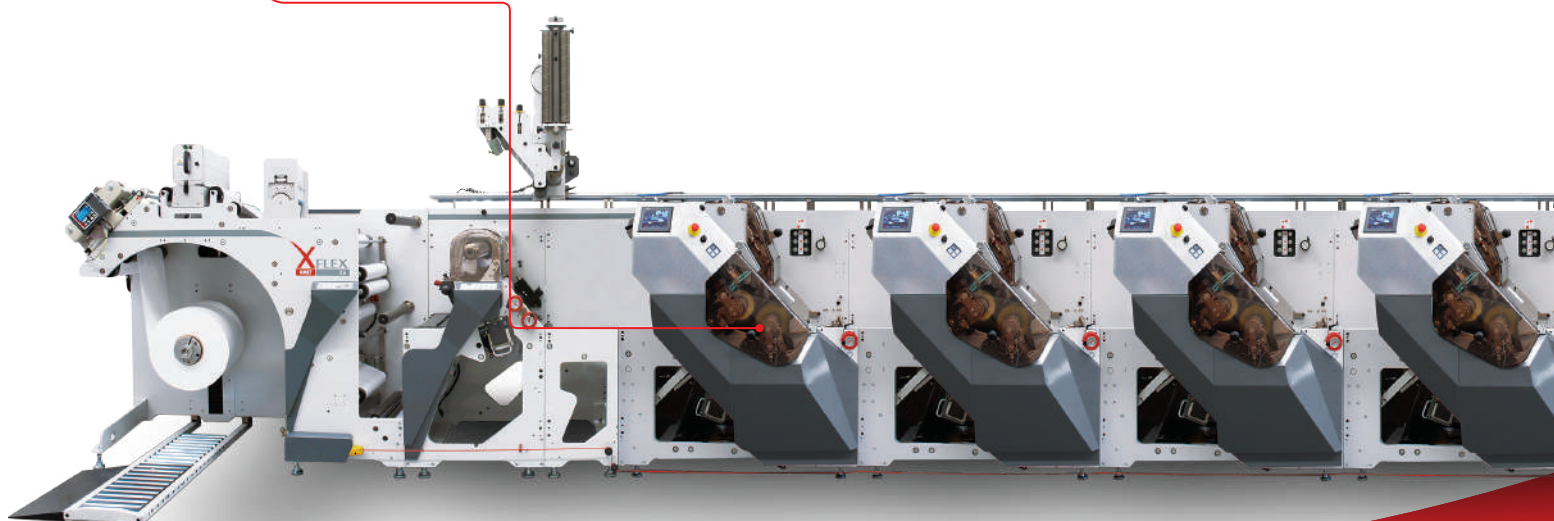
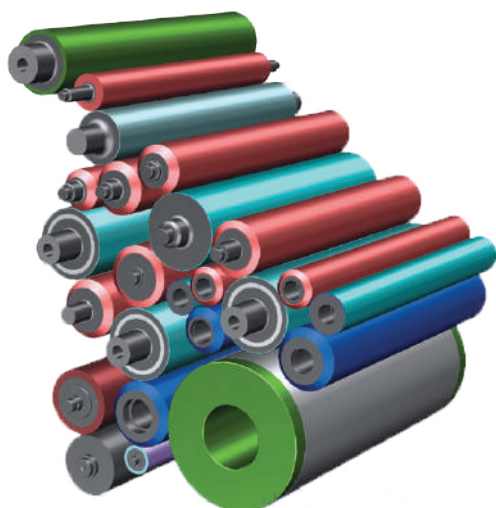
Independent motors on the repeat sleeves and on the chilled impression cylinder.

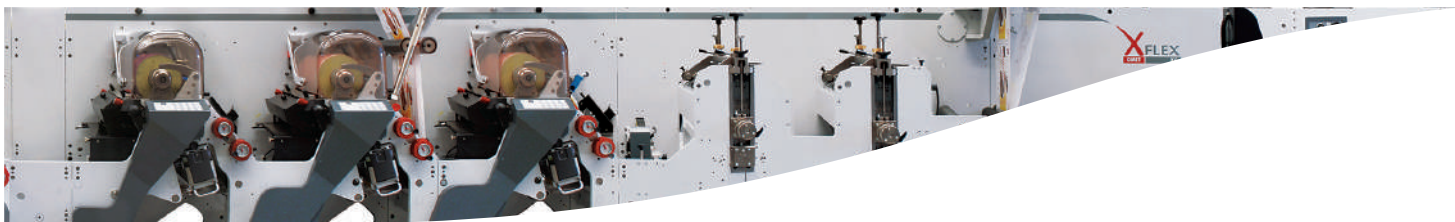
Sharp printing precision

Automatic pre-register and register control system.

User-friendly operation

Multi-control station for remote print management and dedicated touch-screen panel on each printing unit.

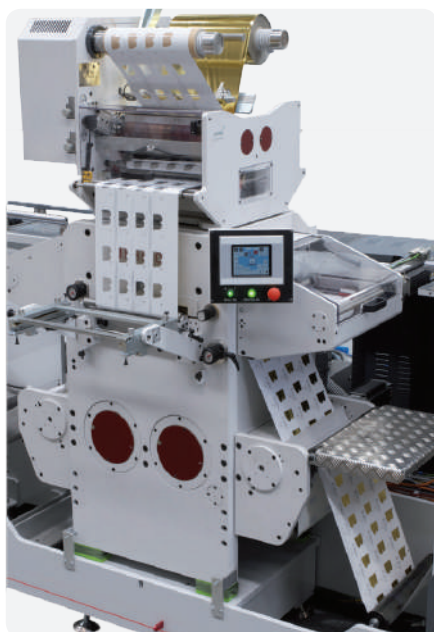




HYBRID TECHNOLOGY

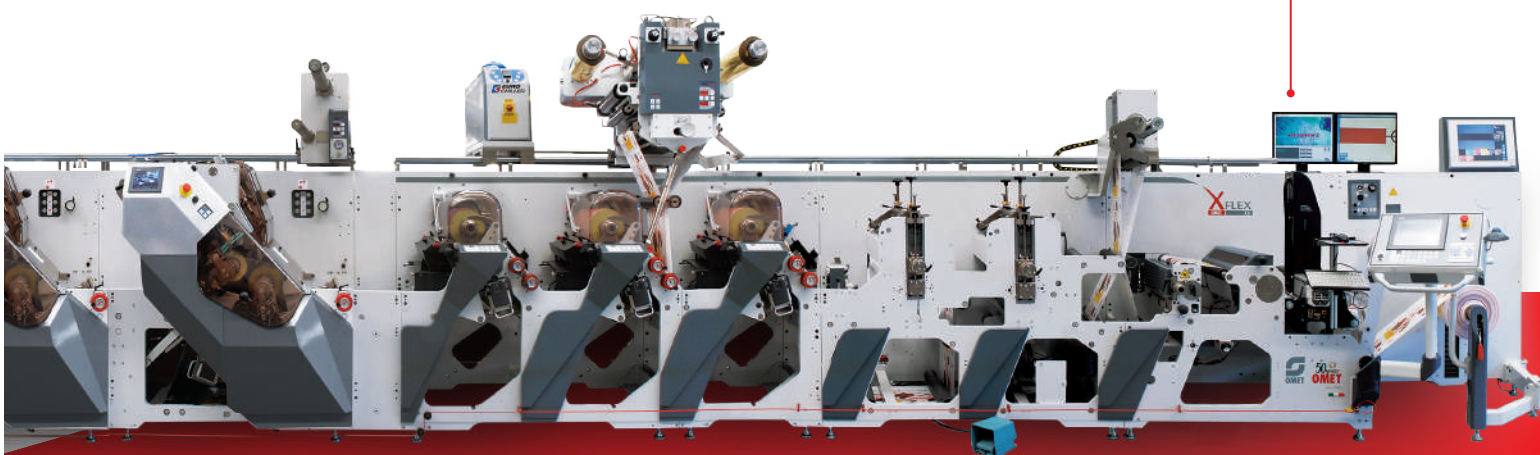
The versatility of this platform comes from the combination of patented offset technology and the best flexo printing press on the market, creating a real added-value solution for the production of high-end labels and packaging.

The multi-functional capability of XFlex X6 line allows the integration of special finishing units like Rotary Silk-Screen and Flatbed Hot Foil printing, to further enhance the value of the final products.



COMBO FLEXO / OFFSET PLATE MOUNTER

New plate mounting station with advanced plate alignment Vision System for sharp precision folding and mounting operations. It can be used for both flexo and offset plates



HYBRID PRINTING SOLUTION

WHEN DIGITAL MEETS FLEXO

OMET XJet Powered by Durst is the result of the combination of the renowned OMET flexo quality and digital inkjet printing technology. This **hybrid digital/flexo solution** merges all the advantages of the two printing technologies in one single press. It widens significantly the range of printing opportunities, adapting the production to changeable market trends like **personalization, just-in-time deliveries** and final product enhancement.

FULLY INTEGRATED CONFIGURATION

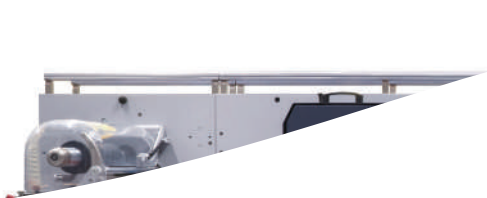
Within OMET XJet Powered by Durst is the only label press with **in-line integrated configuration**, combining Inkjet technology with OMET flexo units, perfect for pantones and solid printing, plus all finishing and converting units. The printer alone decides which technology to use at every run and **the most convenient breakeven** point according to daily production.

MONOTWIN CUT

One cylinder for any shape

The unique variable-size die-cutting unit by OMET, which works with one magnetic cylinder for all label shapes and dimensions and minimizes operational costs and changeover time, thanks to a fully automatic pre-register and register control.



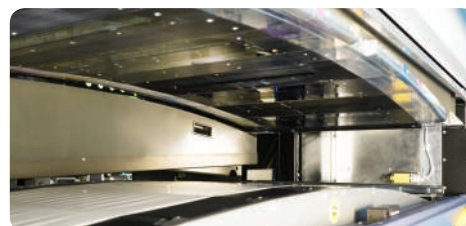


MAIN FEATURES

ADAPTABILITY

3 PRESSES IN 1

- Get the final product in one single passage
- Combine digital, flexo print and finishing modules as you wish
- Print on a wider array of substrates



PRODUCTIVITY

INCREASE YOUR PRODUCTION BY CUTTING COSTS

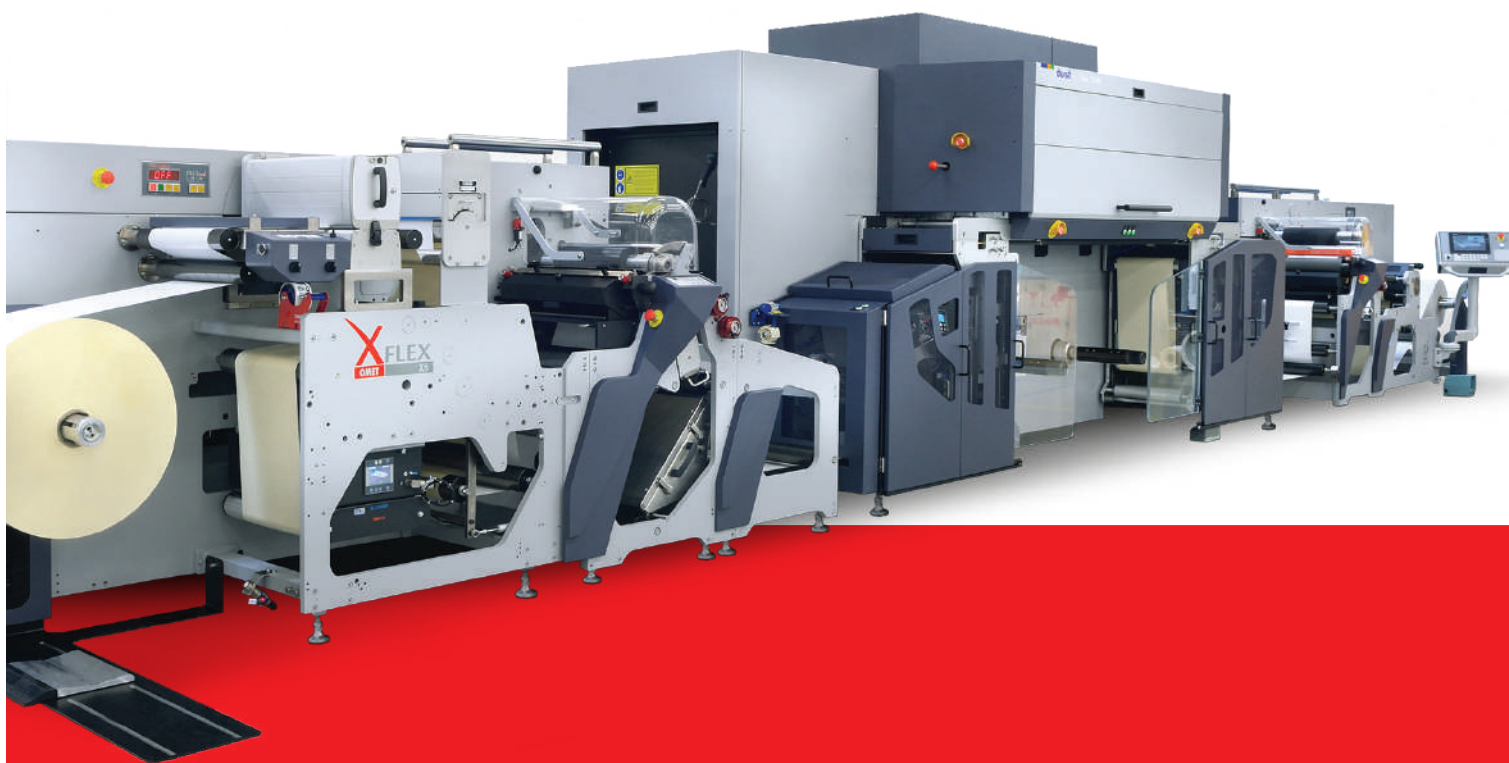
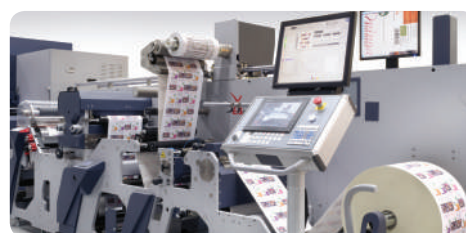
- Get faster ROI with no down-time
- Choose the most suitable printing process at every run
- Optimize production time and costs



CUSTOMIZATION

READY TO MEET ANY NEED

- Fulfill just-in-time deliveries
- Product versioning and variable data printing
- Add strategic value to the final product



SYNERGY OF EXCELLENCE

PRINTING TECHNOLOGIES

FLEXO UV

FLEXO UV LED

FLEXO WATER-BASE

FLEXO SOLVENT-BASE

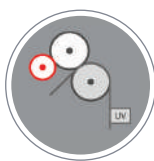
OFFSET BY SLEEVE

DIGITAL INKJET

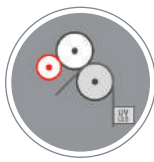
ROTARY SCREEN PRINTING

ROTOGRAVURE

DRYING AND CURING SYSTEMS



UV



UV LED



HOT AIR

XFlex X6 modular units can be combined at will, with no limitations, allowing the implementation of different processes and special finishing applications in-line, to always get **to the final product in one single passage.**

FINISHING & CONVERTING

Cold foil & Lamination

Sliding unit for metallic effect applications and for UV or self-adhesive lamination



Hot foil

Servo driven hot stamping system for special metallic effects. Sliding on rail or flatbed in-line station



Embossing

In-line system for raised or recessed relief images and designs



Peel&Seal

Special unit for the production of multi-layer labels, booklets and coupons, up to 3 layers and 7 printed faces



Varnishing

Extended web path for in-line UV gloss varnishing



Delam-Relam

Modular system for printing on adhesive face, featuring web-turning bars for both back and front printing




SLITTING & DELIVERY SYSTEMS

Different typologies of **slitting systems** can be integrated in-line into the converting section: shear cut, pressure cut, razor cut and underscoring assembly.

XFlex X6 can be configured with 3 main delivery options: **Roll-to-Roll** as the standard solution, **Roll-to-Blank** for special products like in-mould-labels or **Roll-to-Sheet**.



TECHNICAL SPECIFICATIONS

			
	340	430	530
Web width	340 mm (13 3/8")	430 mm (16 7/8")	530 mm (20 7/8")
Print width	330 mm (13)	420 mm (16,5")	520 mm (20,5")
Max. speed	200 m/min		
Unwinder Ø	1000 mm (40")		
Rewinder Ø	760 mm (30") - 1000 mm (40")		
Infeed / Outfeed	Servo driven		
Printing trasmission	Independent direct - drive motor		
Printing technology	Sleeves		
Machine and Cross register adjustment	Automatic		
Register control	Automatic		

AVAILABLE PRINTING TECHNOLOGIES

Flexo	(Opt. 10") 12" - 25"	(Opt. 10") 12" - 25"	(Opt. 10") 12" - 25"
Vertical Flexo		12" - 25"	12" - 25"
Offset by Sleeve		14" - 25"	14" - 25"
Rotary Silk-Screen	12" - 25"	12" - 25"	16" - 25"
Rotogravure		12" - 26"	12" - 26"
Digital Inkjet	√	√	√

AVAILABLE DIE-CUTTING UNITS

Double die-cutting station	12" - 25"	12" - 25"	
Cassette-style die-cutting station			16" - 25"
TWIST die-cutting unit		12" - 25"	16" - 25"
Monotwin Cut	12" - 20"	12" - 20"	

OMET reserves the right to change machine specifications at any time





INNOVATION WITH PASSION

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OMET Packaging Printing is located in Lecco, Italy, 50 kilometers north of Milan in a 3,000 square meters area, of which 2,000 square meters dedicated to production. The product portfolio of this business unit includes: narrow and mid web machines/or labels and packaging printing characterized by operational flexibility, efficiency on any job run, versatility on materials and personalized configurations to respond to any customer's request. Besides machines, **OMET** offers complimentary services including ancillary equipment, consultancy and accurate pre and post-sales service programs.



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