

XFLEX
X7 OMET



HIGH-VALUE QUALITY PRINTING



THE HIGH-VALUE SPECIAL PRINTING SOLUTION

PRINTING THE BEST QUALITY EVER

XFlex X7 has been created with the target to merge the best features of **XFlex X6.0** and **Varyflex V2** into a new amazing printing press dedicated to flexible packaging. With its 670 mm width, the X7 is ready to become the benchmark for flexible packaging and premium shrink sleeves printing at the highest level of quality, thanks to the best Flexo technology and state-of-the-art automation systems.

XFlex X7 offers different printing combinations and special effect applications for premium products thanks to the brand new Rotogravure unit, the Vertical Flexo station and the **670mm-wide Rotary Screen** unit, which can be combined in-line with cutting-edge flexo stations to reach the results desired.

TARGET MARKETS

WINE & SPIRITS

HEALTHCARE

COSMETICS

FOOD & BEVERAGE

HOUSEHOLD

INDUSTRIAL



XFlex X7 is able to integrate several printing and converting technologies in-line and process all kind of substrates, in particular flexible packaging and shrink sleeves from 9-micron thickness.

PRINTABLE MATERIALS

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



END-USE APPLICATIONS

SHRINK SLEEVES

FLEXIBLE PACKAGING

LAMITUBE

POUCHES & SACHETS

SELF-ADHESIVE LABELS

WET-GLUE LABELS

MULTI-LAYER LABELS

WRAPAROUND LABELS

IML

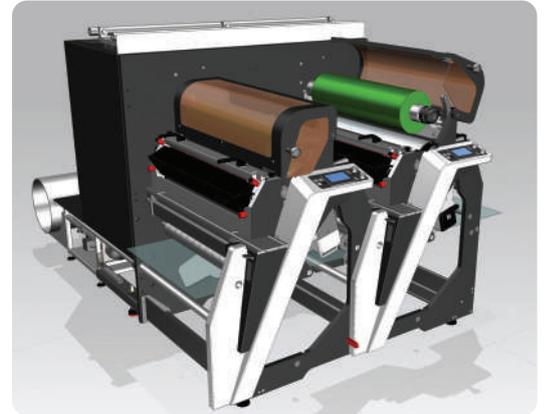
LIDS

TAGS & TICKETS

THE FLEXO PRINTING CONCEPT

FLEXO PRINTING UNIT

The innovative X7's Flexo units introduce the new concept of fully motorized **Zero Gear Solution**, which assures the **maximum level of precision and stability** thanks to 9 motors on each unit. They have been engineered with new materials and exclusive components that enable **anti-bounce capability** as well as minimum deltaE variation at every change of speed.

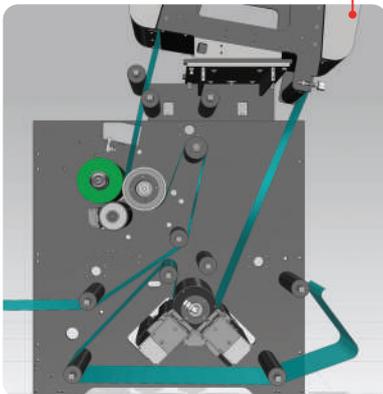


VERTICAL FLEXO PRINTING UNIT

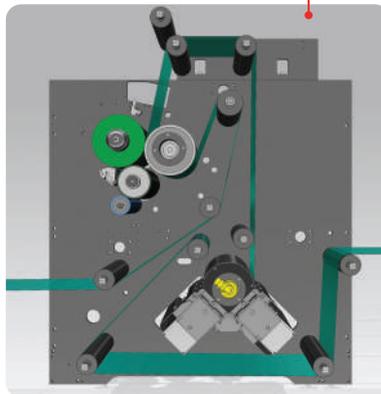
The X7 can be equipped with a new **full servo Vertical Flexo unit** for front and reverse printing, with sliding and removable ink tray. The new Vertical Flexo features hot air drying tunnel for water-base and solvent-base inks, combinable with up to 2 UV lamps, allowing **Soft Touch applications**. The unit features an ink pump integrated on the inking trolley and allows different web path combination.



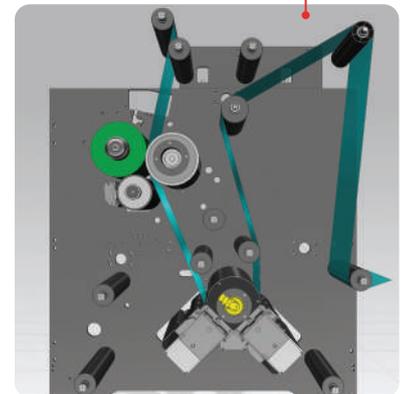
Flexo front - Hot air + UV



Flexo front - 2 UV



Flexo reverse - 2 UV



MAIN FEATURES

ON-THE-FLY PRE-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**. The automatic positioning of the plate at simple passage of the mark allows an automatic pre-registration, independently from the web path and of the operator.



MULTIVISION

Automatic printing registration adjustment and control based on a multiple camera scanning system. It adjusts and controls both machine and cross side of each single printing unit, simultaneously and concurrently, and **get the machine ready to print in less than 1 minute** generating nearly no waste.



AUTOMATIC PRINTING PRESSURE ADJUSTMENT

The X7 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 ultra precise 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.



ERGONOMIC MULTI-PROCESS DESIGN

The X7 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**. Each Flexo unit features ergonomic sliding inking tray, removable by trolley for easy and safe printing tooling handling and quick job changeover.



HIGH-VALUE ROTOGRAVURE UNIT

X7 can be equipped with a **brand new High-Value Rotogravure** unit, with accessibility for the operator from the center-line, on both side. The ergonomic design of this unit facilitates the job of the operators and enables lean changeover operations. The unit can print front and reverse and it is equipped with integrated chill drum and doctor blade with front and reverse position.



MAIN FEATURES

THE PRINTING SECTION

A new concept of rotogravure printing cylinder allows outstanding printing results:

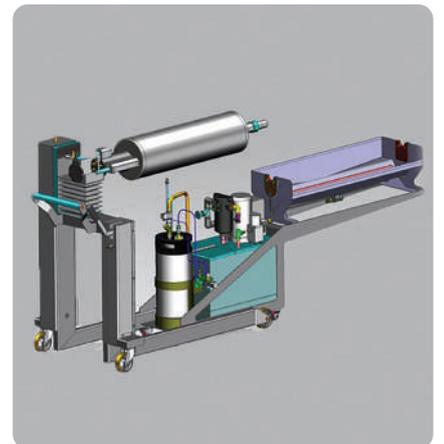
- Direct Drive motor on printing cylinder, with NO gears
- Pressure roll with conical sleeve system, and pneumatic regulation
- Printing cylinder without bearings
- Front and Reverse printing capability by changing the position of the doctor blade



LEAN CHANGEOVER PROCESS

The new X7 High-Value Rotogravure unit has different smart devices to help the operator in the handling of the unit:

- Specific trolley with automatic lift for printing cylinder loading and unloading operations with no need for other systems:
 - New single all-in-one inking tray
 - Less surface of the cylinder exposed to the air
- Specific trolley for ink tray, pump and viscosimeter



SOFT TOUCH SPECIAL EFFECT

The new Rotogravure unit has been developed with the target to apply special effects on shrink sleeve, label and flexible packaging with "green thinking", thanks to the possibility to use water base inks and air drying recirculation:

- Printing possibilities: water-base, solvent-base or water-base + UV
- By-pass device for hot air saving
- Air drying recycling
- Soft touch application (water base + 2 UV), front and reverse side
- Special varnishes for special effects: tactile features (leather, sand, textiles, peach)



NEW UNWINDING SECTION

New concept with independent motor on the reel. Expandable shaft, supported on both side, with automatic lifting device for effortless reel changeover operations. A dedicated reel trolley from pallet to unwinder is available to help the operator in daily operations.



Multivision



Direct Drive



Automatic Pressure Adjustment



On-the-Fly Registration



TWIST - EASY - CHANGE DIE CUTTING

Special die-cutting station (530mm web width) designed for **smooth and effortless changeover operations**, thanks to the Easy-Change Die system. It can **simplify the operator's life and minimize set up time** through the innovative In&Out sliding system, with no need for any external lifting device. OMET TWIST features laser pointer to support the alignment of the plate and a parking area for ergonomic die changeovers.



**High-Value
Rotogravure
Unit**



Vertical Flexo



**Movable
Operator Panel**



HIGH-VALUE SHRINK SLEEVE

The application of special varnishes and tactile effects like soft touch, leather and sand are the new trend of the market. The X7 is a modular printing and converting platform allowing the application of special effects on shrink sleeves as well as high quality labels and flexible packaging.

PRINTING TECHNOLOGIES

FLEXO UV

FLEXO WATER-BASE+UV

FLEXO SOLVENT-BASE

ROTOGRAVURE SOLVENT-BASE

ROTOGRAVURE WATER-BASE+UV

ROTARY SCREEN

FINISHING & CONVERTING

Cold foil & Lamination

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

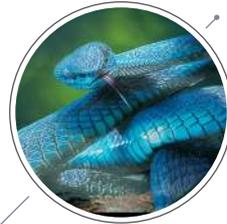


Hot foil

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

Soft Touch

Special varnish application to get tactile effects through double curing process UV+Hot Air



Cast & cure

Decorative coating process that integrates "casting" and "curing" techniques to form a consistent high quality surface including ultra high gloss, matte and holo-graphic finishes on a variety of substrates.

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.

DRYING AND CURING SYSTEMS



UV/UV LED



HOT AIR



SOFT TOUCH

TECHNICAL SPECIFICATIONS



670	
Web width	670 mm (26" 3/8)
Print width	660 mm (26")
Max. speed	250 m/min
Unwinder (diameter)	1000 mm (40") - 1500 mm (60") opt.
Rewinder (diameter)	1000 mm (40") - 1500 mm (60") opt.
Printing transmission	Independent direct-drive motors
Printing technology	Sleeves
Machine and cross register adjustment	Multivision
Register control	Automatic

AVAILABLE PRINTING TECHNOLOGIES

Flexo UV - WB - SB	12" - 25"
Vertical Flexo	12" - 25"
Rotary Silk-Screen	16" - 25"
Rotogravure	16" - 26"

AVAILABLE DIE-CUTTING UNITS

Cassette-style die-cutting station	16" - 25"
TWIST die-cutting station	16" - 25"

OMET reserves the right to change machine specifications at any time.



INNOVATION WITH PASSION



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