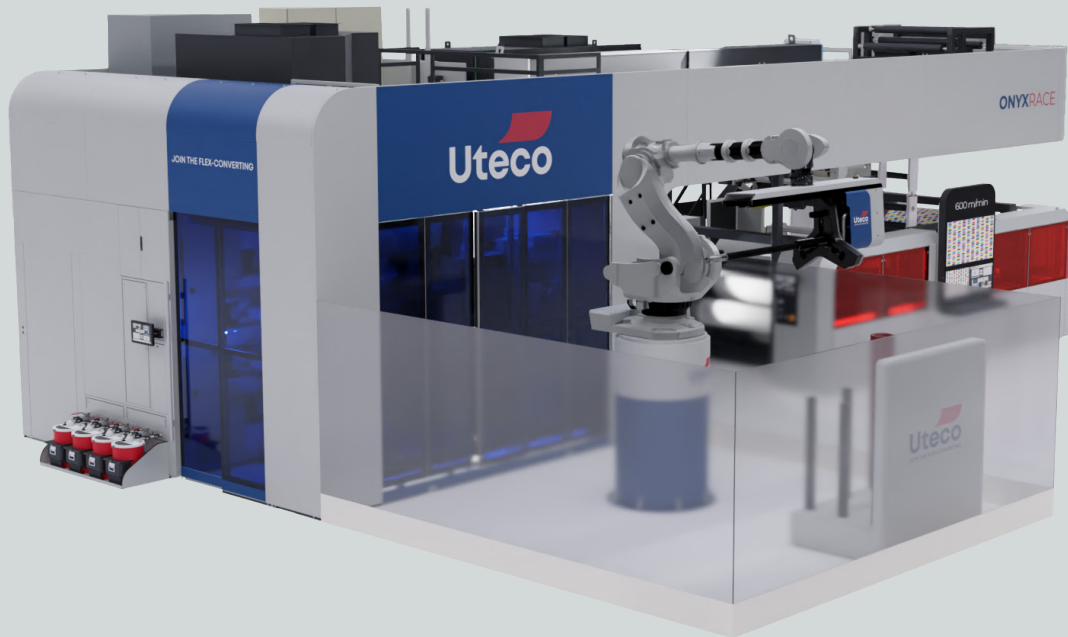


OnyxRACE

SETTING THE PACE FOR
SUSTAINABLE PRINTING

OnyxRACE

Setting the Pace for Sustainable Printing.



Why OnyxRACE?

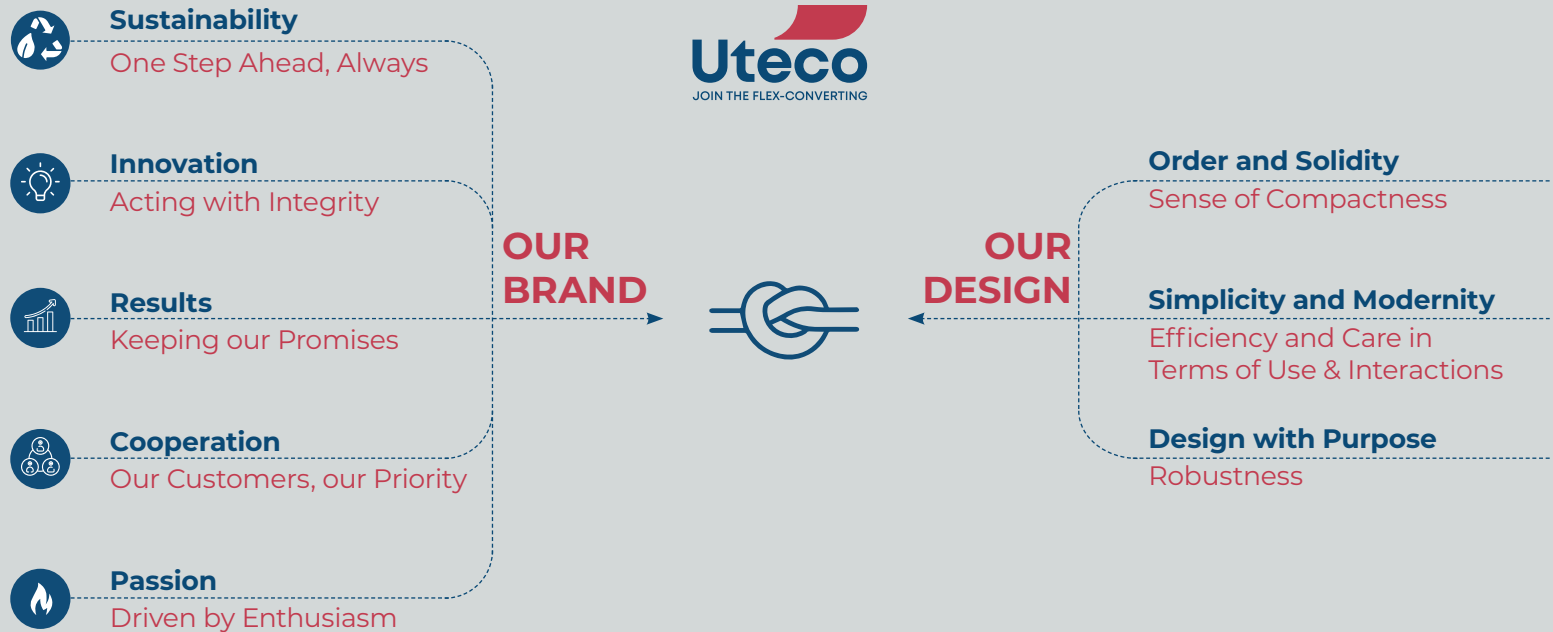
ONYXRACE

- 
- 1 The Greatest **Industrial Design**
 - 2 The Most **Productive**
 - 3 The Most **Sustainable - ACTIVE PACK**
 - 4 The Most **Compact**
 - 5 The Most **Robust**
 - 6 The Most **Versatile**
 - 7 The **Easiest** and **Safest** to Operate & Maintain
 - 8 The Most **Automated**



1. The Greatest Industrial Design

The **Strong Bond** between **Brand Values** and **Industrial Design** creates and enhances the perception of **Uteco's Brand** and its values.



1. Order and Solidity, Simplicity and Modernity

Overall shape obtained by a **Distruption** of a **Unique Solid Block**.



Core Print Unit

Complementary High-Tech Unit



ICONIC DISTINCTIVE SHAPE



TIMELESS DESIGN

The separation generates **coherency between** the two **complementary shapes**.

All parts enclosed in a simple and **unified volume** and **unique macro and solid shape**.



2. The Most Productive

The **Fastest** Printing **Speed** in the Medium Runs Flexo Segment, **Ever!**



Printing up to
140 M sqm / year



Max Speed 600 mpm.



Max Material Width 1650mm

(5 configurations: 1050mm - 1250mm - 1350mm
-1450mm - 1650mm).



**BEST FOR MEDIUM
AND LONG RUNS**

2. The Most Productive

The **Fastest Changeover** in the Flexo CI Medium Market Segment, **Ever!**

< 3 Min for Automatic Printing Pressures and Register Setup^(*)

Up to 50% Faster Printing Setup^(*)



**UP TO 1,9M€ HIGHER REVENUE /
YEAR OF EXTRA PRODUCTION^(*)**



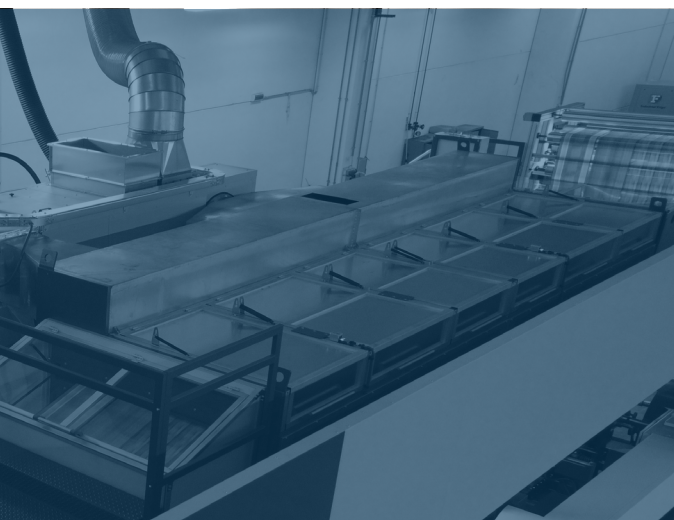
**Gain Up to 270 Extra Hours
of Production/year**

^(*) Compared to Competitor Solutions in the same flexo segment



2. The Most Efficient Drying Tunnel

Two High performing drying tunnels.



Our Semi-Floating
Technology for greatest
drying performances

- **Semi-floating technology:** drying the material on both sides.
- **New Nozzles Design** to increase air turbulence and reduce residual solvent.
- Controlled **solvent free atmosphere thanks to advanced suction system.**



**2 DRYING
TUNNELS**



**6+ METERS
LENGTH**

3. The Most Sustainable - Our New Active Pack

Active Pack allows to equip our new flexo CI press **OnyxRACE** with top-notch technologies for **sustainability**.

ONYXRACE ACTIVE PACK

Active Start
Active Dry®
Active Dry - T
Active Ink

The background image shows a flexo CI press in operation, with large rolls of material being processed. A red overlay is present on the right side of the image, and the text 'Active Pack Configuration' is written in white on this overlay.

Active Pack
Configuration

3. The Most Sustainable - Our New Active Pack

With **Active Pack** your new machine is **FOR FREE!**



Save up to 300k€ per year
with Active Pack

- Active Pack enables savings up to **300k€** each year on energy and material consumption. Actively have **your machine repay for itself with time.**
- Our Active Pack techs are unique in the flexographic industry for **energy saving** and **consumable material saving**, making **OnyxRace** the **most sustainable** CI flexo press in the market.



ACTIVE PACK



3. The Most Sustainable - Active Pack: Our New Active Start

The **Lowest Material Waste** in the Medium Run Flexo Segment, **Ever!**

Down to 8m of Material Waste at each Startup,
thanks to Fast Setup Phase in **< 3 Minutes.**

The **Active Start Engine** ensures precise positioning of printing plates and anilox rolls, **optimizing print quality** while also **identifying and automatically adjusting machine settings based on real-time geometry** variations for peak performance.



ACTIVE START
SAVE UP TO 40 K€/YEAR OF
WASTED MATERIAL

ACTIVE PACK

Active Start
Active Dry®
Active Dry - T
Active Ink

Up to 230 km/year of
Material Saved



3. The Most Sustainable - Active Pack: Our New Active Dry®

The **Most Sustainable** Drying System, **Ever!**

ACTIVE PACK

Active Start

Active Dry®

Active Dry - T

Active Ink

Save Up to 50%/Year
of Energy Consumption (*)

Active Dry® new patented Smart&Intelligence System to optimize **Energy Consumption** on Drying System

- **Drying power** is **regulated** according to the printing characteristics detected by Active Start System.
- **Ventilation system** guarantees **perfect insulation** of environment for the operator.

Active Dry-T automatically identifies the **Optimal Drying Temperature for the Tunnel** given info coming from the printing setup process such as substrate type, thickness, width. This automation system optimizes the energy consumption during the drying phase.



(*) Vs comparable flexo press on the market without our New Patented Smart Drying System

3. The Most Sustainable - Active Pack: Our New Active Ink

The **Most Sustainable** Inking System, **Ever!**

Smart Ink Pumping: automatically regulate pumping cycles according to Printing Characteristics detected by Active Start System.

Significantly **Reduce Solvents Consumption at each washing cycle, up to 40%** thanks to special Inking System.

- **2x Times** pumps lifecycle.
- **Optimized positioning** on the side of the CI drum.



ACTIVE PACK

Active Start
Active Dry®
Active Dry - T
Active Ink

**Save Up to 60% / Year
of Energy Consumption
thanks to inking pumps
cycles optimization (*)**

(*) Vs Comparable flexo press on the market without Active Ink

3. The Most Sustainable - Our New Sprint Wash

The **Most Sustainable** Washing System, **Ever!**



Save Up To 40% / Year Of Solvent Consumption (*)

Constant Washing Performance on all the printing units, regardless of their position

- **Fast:** complete washing cycles completed in < 3 minutes.
- **Efficient:** new positioning on the side of the CI Drum guarantees saving of solvents consumption.



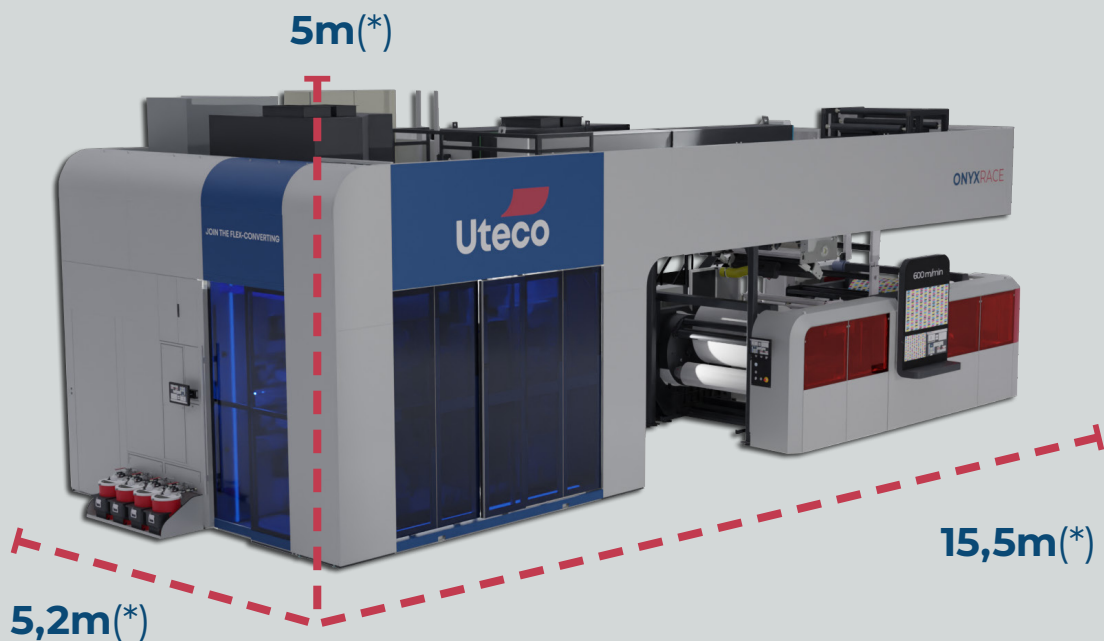
SPRINT WASH



(*) Vs Comparable flexo press on the market without Sprint Wash

4. The Most Compact Flexo CI in Flexo Medium Market Segment

Just 80 sqm Footprint!

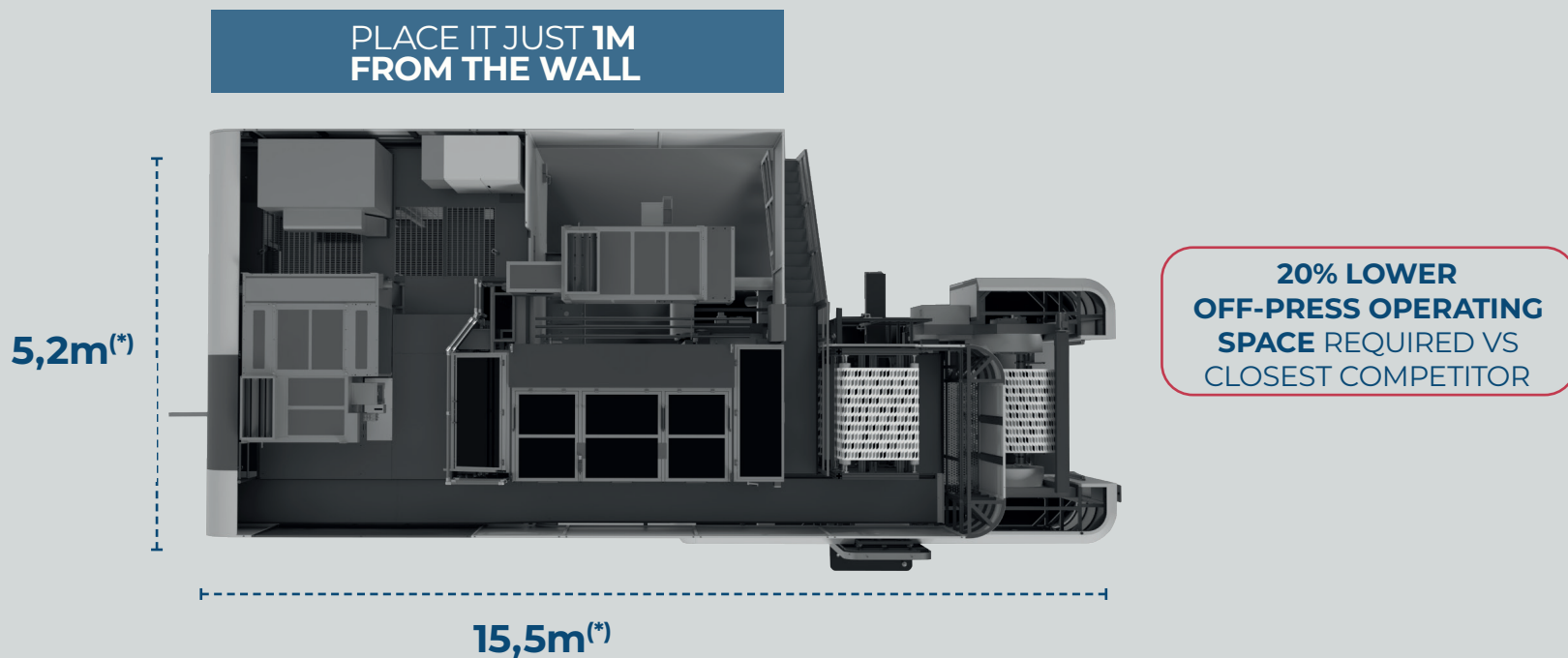


(*) Figures refer to machine smallest configuration 8C, Mod. 100, Repeat max 850 mm



4. The Most Compact Flexo CI in Flexo Medium Market Segment

OnyxRACE minimizes the Off-Press Operating Space.



(*) Figures refer to machine smallest configuration 8C, Mod. 100, Repeat max 850 mm

5. The Most Robust CI Flexo Press – Our BounceVoid Plus Technology

The **Most Advanced Technology** to eliminate the Bounce Effect.

New and **Innovative Geometry** of the **printing deck frame**, reinforced on the points more subjected to mechanical stress, reducing bouncing and vibrations effects.

- **Highest quality printing at 600 mpm.**

3x Higher Robustness
of Printing Group



**BOUNCEVOID PLUS
TECHNOLOGY**

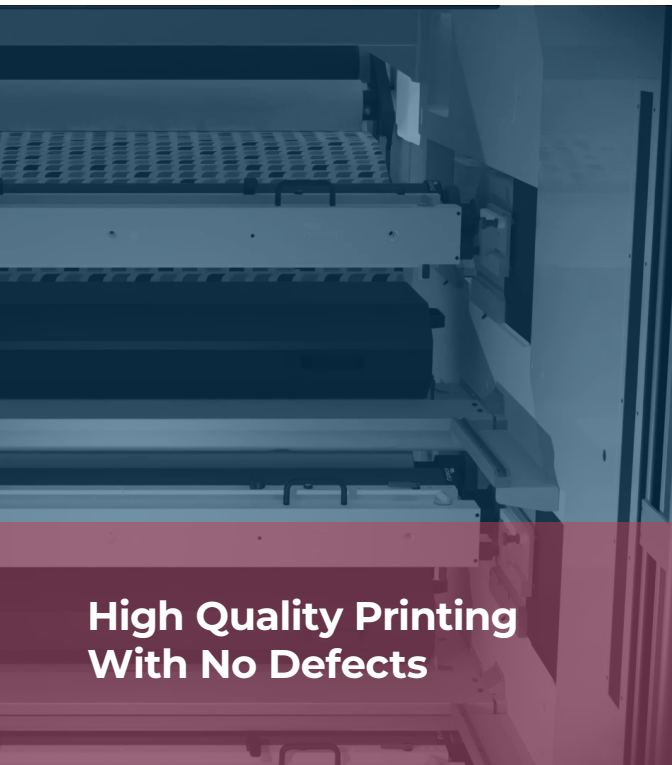


**BounceVoid Plus
allows great Machine
Robustness**



5. The Most Robust CI Flexo Press – Our BounceVoid Plus Technology

The **Most Advanced Technology** to eliminate the Bounce Effect.



High Quality Printing
With No Defects



Our **new frame** is **reinforced** in correspondence of each plate cylinder with higher thickness and innovative geometries to guarantee maximum **robustness**:

- **Carbon Fiber Printing Shafts.**
- **Double Guide System** for Color Units with **innovative patented Materials** for enhanced rigidity and lightness.
- **Reinforced Mandrels' Supports** with **High-Performance Bearings.**



**BOUNCEVOID PLUS
TECHNOLOGY**

6. The Most Versatile CI Flexo Press

THE MOST VERSATILE PRESS



MULTI-INDUSTRY

- ✓ Food (incl. pet)
- ✓ Beverages
- ✓ Pharma
- ✓ Healthcare
- ✓ Personal Care
- ✓ Home & Office
- ✓ Industrial



MULTI-MATERIAL

- ✓ Plastic Films
- ✓ Aluminium
- ✓ Paper
- ✓ Cardboards
- ✓ Laminates















MULTI-INK

- ✓ Water-based
- ✓ Solvent-based



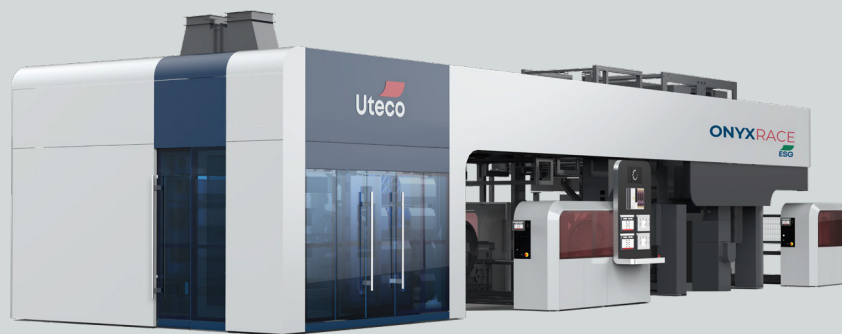
6. The Most Versatile CI Flexo Press

6 Kits Configurations For The **Widest End-use Applications.**

KIT TYPE	PURPOSE
 KIT Water-Based	 Water-based printing inks entail special requirements, for example: stainless steel, pH control, anti-foam.
 KIT Water + Solvent Based	 Additional printing enhancements for combining both Solvent & Water based printing.
 KIT Paper & Cardboard	 Tensioning Adjustment and web threading mechanism to manage heavy materials.
 KIT Tropicalization	 Cooling systems and substrates treatment adjustment to manage Warm Areas Production Sites.
 KIT Aluminium	 Specially Treated Rolls and assembling revision to treat Aluminium Substrates.
 KIT Altitude	 Advanced system designed to enhance the performance and safety of electrical panels operating at High Altitudes.

6. The Most Versatile CI Flexo Press - Downstream Units

Our Downstream Units for **Special Applications**.



- In-line **Finishing application** - embellishment or functional.
- In-line **Coating & Laminating** applications.

WHY OUR DSU?



Proprietary Technology



Fully Integrated



Smooth In-Register Printing



High-Quality Printing at High Speed



Short Web Path



6. The Most Versatile CI Flexo Press - Downstream Units

Our Downstream Units for **Special Applications**.

■ Combine **1 or 2+ DSUs** to enrich the Printing Process

- **FINISHING APPLICATION** – EMBELLISHMENT OR FUNCTIONAL
- **COATING & LAMINATING APPLICATIONS**



DSU ^R	→	Roto
DSU ^F	→	Flexo
DSU ^X	→	Flexo/Roto
DSU ^K	→	Stack

6. The Most Versatile CI Flexo Press - VDP PACK

Our In-Line Digital Printing Solution.

VDP**PACK**

Our in-line **Digital Module** for **Variable Data Printing (VDP)** with **VDP Software** to **Code & Track the VDP Data**.

Data Matrix

Bar Code

QR Code



And more!



- **“Plug & Play”** modules up to 3 **Digital Printing Lines**
- **UV-Led** Curing System
- **Equipped with Automatic Washing System**



6. The Most Versatile CI Flexo Press - CI Drum for overprint Varnish

Use the **CI Drum** to apply **Overprint Applications**.



**CI Drum with Coating
Unit for OPV**

■ The **last Unit of OnyxRACE CI Drum** can be equipped with **Roto Technology** to apply **Over Print Coatings**:

- Best fit for end-use applications with **high-grammage** OPV (e.g. functional, embellishment).
- Very Short web path Vs In-line Solutions.
- In-continuous Applications.



**OVER PRINTING
COATINGS**

7. The Easiest and Safest to Operate - Dynamic Tension

Automatic Regulation of Material Tensioning.

Innovative Automatic System for material tension control allowing the machine to automatically identify the correct material tension, according to the information concerning, among others, the **substate type, thickness, width.**

Set the Perfect Tensioning without Operator Intervention for **Faster Setup Times** and **Safer Operations.**



DYNAMIC TENSION



**3x Faster Set-Up with
100% accuracy for
material tensioning (*)**

(*) VS Manual



7. The Easiest and Safest to Operate - Dynamic Pressure Roller

Sleeve Pressure Roller.



**20x Faster Pressure Roller
Changeover Operations (*)**

Sleeve applied on the pressure roller easily replaceable and accessible for a safe and high quality cleaning.

The operator can easily reach the color unit for the pressure roller sleeve extraction and cleaning.

Pressure Roller Sleeve
change in **< 1 min**



**DYNAMIC PRESSURE
ROLLER**



(*) VS Manual no-sleeve type

7. The Easiest and Safest to Operate - Dynamic Web Threading

Fully Automatic Web Thread.

The system allows to **automatically thread the web** throughout the whole machine (from unwinder to rewinder, **Central Drum included**) without operator's manual operation.

Full Web Threading
in **< 10 min**



**DYNAMIC WEB
THREADING**

**3x Faster Web
Threading (*)**

(*) VS Manual



7. The Easiest and Safest to Operate - Dynamic Cockpit

The **Most Ergonomic** Cockpit.



**Adaptive Cockpit
for The Greatest
Ergonomics**

Adaptive Cockpit can be regulated according to the operators' heights for maximum ergonomics

- HMI is centralized and fully touch screen: the operator **Manages** the whole **Machine from a Unique Spot**.
- Easy to monitor and control the Printing Process.
- Centralized Management of all Operations.
- Great ergonomics for the operator.



DYNAMIC COCKPIT



7. The Easiest and Safest to Operate - Dynamic Drying Box

The **Most Ergonomic** and Functional Drying Box.

Fully Removable Drying Box (Toolless)

- **The operator** can easily remove the drying box with a single move. This allows **direct access** to the **Central Drum** which becomes easier to clean and maintain.
- **Fully Replaceable Nozzles:** substitute the nozzles and change their shapes. We introduce different nozzles' shape to enhance the drying power of the inter-color drying since they create more air turbulence.
- **Enhance the drying power** when needed. especially for drying solid colors (e.g. white).



DYNAMIC DRYING BOX



Fully Removable and Upgradable Drying Box



7. The Easiest and Safest to Operate – Fully Accessible Catwalk

he **Most Accessible** Catwalk for a Flexo Press, **Ever!**



Easier Access for
Maintenance and
Cleaning

The Operator can easily access the **upper part** of the **machine** thanks to the catwalk, extended to the total length of the machine

- **Easier** and **safer** web monitoring of the **print result**.
- **Easier access** to drying system for **cleaning** and **maintenance**.
- **One fixed ladder** is positioned on the rewinder rear side.



**FULLY ACCESSIBLE
CATWALK**



7. The Easiest and Safest to Maintain – Dynamic Doctor Blade

Guarantee Constant Inks Flows to Units for Highest Quality Printing.

■ Dynamic Ink flow Regulation

- **Inks' Flow Optimization** by **Dynamic Dumpers** positioned on the sides of the Doctor Blade.
- **Light Weight, <10kg**: the crossbar stays on the press but can be removed for cleaning or maintenance purposes.
- **Optimize inking system pressures**, for greatest and constant printing quality over print runs.
- **2x Lighter Doctor Blade** than traditional ones
- **Reduced Blades Wear** and consumption.



DYNAMIC DOCTORING®



**Dynamic Doctor
Blade For Ink Flow
Optimization**



7. The Easiest and Safest to Maintain - Dynamic Door

Sensors for Automatic Doors Opening.



Carry out Sleeve
Change Operations
with automatic door
opening



This device allows the operator to open the **printing units doors with free hands**. The system is simple and safe, being activated by sliding the foot on the bottom of the doors.

Sensors for Automatic Doors opening activated by foot.



DYNAMIC DOOR



7. The Easiest and Safest to Maintain – Noiseless Design

The **Innovative Machine Casing** is designed to **Contain Noises**.

The selected materials are the most performing for noise and vibration reductions

- **The resulting noise level is <80dB**: similar to the best vacuum cleaner in the market.
- **Combine more machines** in the same production site due to lower noise.
- **Healthier work environment** for the operator, especially for long hours shifts.



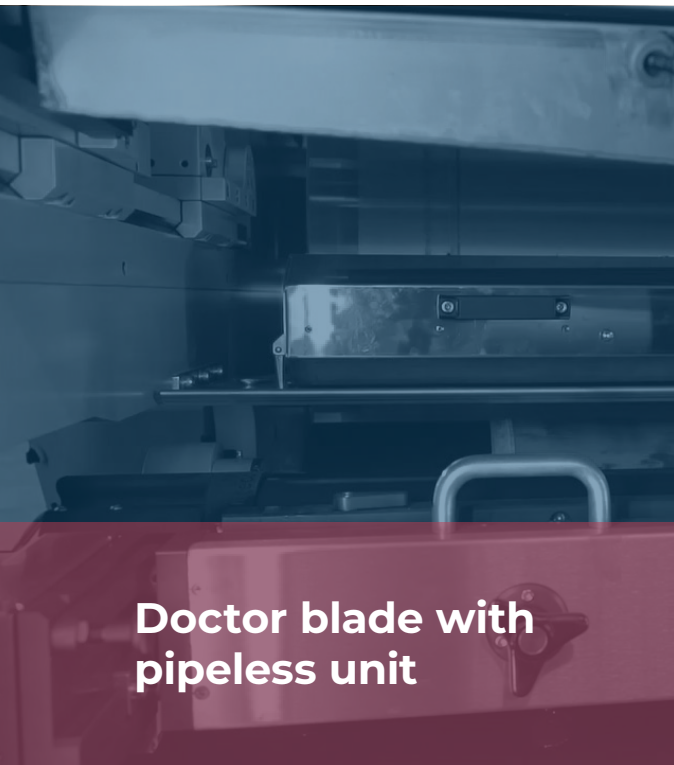
**REDUCED NOISE
LEVEL**

**Lowest Noise Level
<80dB**



7. The Easiest and Safest to Maintain – Pipeless Unit

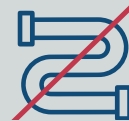
Fully Pipeless color units.



**Doctor blade with
pipeless unit**

The new system allows **tool-free insertion** of the **chamber doctor blade** into the machine, automatically connecting the chamber to the **ink supply and return tubes without any operator operation.**

Guarantee **easy access for cleaning and maintenance to printing unit, drying boxes and doctor blades.**



PIPELESS UNIT



8. The Most Automated - SleeveBOT®

The **Best Robot** for **Automatic Sleeve** Changeover, **EVER!**



Innovative
Patented
Gripper

The front and the back
are equipped with
Adaptable Grippers that
go Inside the Sleeves



Arm for
Automatic
Positioning



8. The Most Automated - SleeveBOT®

Our Innovative Fast **Patented Gripper**.



**Adaptable and
Single Gripper**

Our **New Innovative Gripper** is unique in the market: it adapts to any sleeves' internal diameter.

- **The Most Cost-effective Ecosystem:** single gripper needed while using existing sleeves. **Save up to 658 K€** over Machine Lifetime Vs Comparable solutions in the market.
- **Fast Gripping Sleeve Changeover: < 10 min (*)**.
- **Press Minimized Downtime:** add up to **6.9 M€ of Extra Production** over Machine Lifetime Vs non robotic Solutions.

Robotics Automation Technology guarantees process quality, robustness and repeatability regardless of operators' skills

Safe Working Environment since operator does not handle heavy sleeves on elevated platform from high above ground position.

(*) Considering 8 Color Flexo Press - Considering the Change of 3 Sleeve Aniloxes + 8 sleeve Clichés

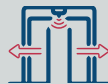
8. The Most Automated - Flying Deck (FD)

FD allows to work on **Selected Units** while the **Press is Printing on Others**.

FlyingDeck (FD) with selective Units Automatic Opening

Change the Job on Selected Units while others are still printing in total safety.

Minimize Downtime During Job Changeovers.



FD Technology



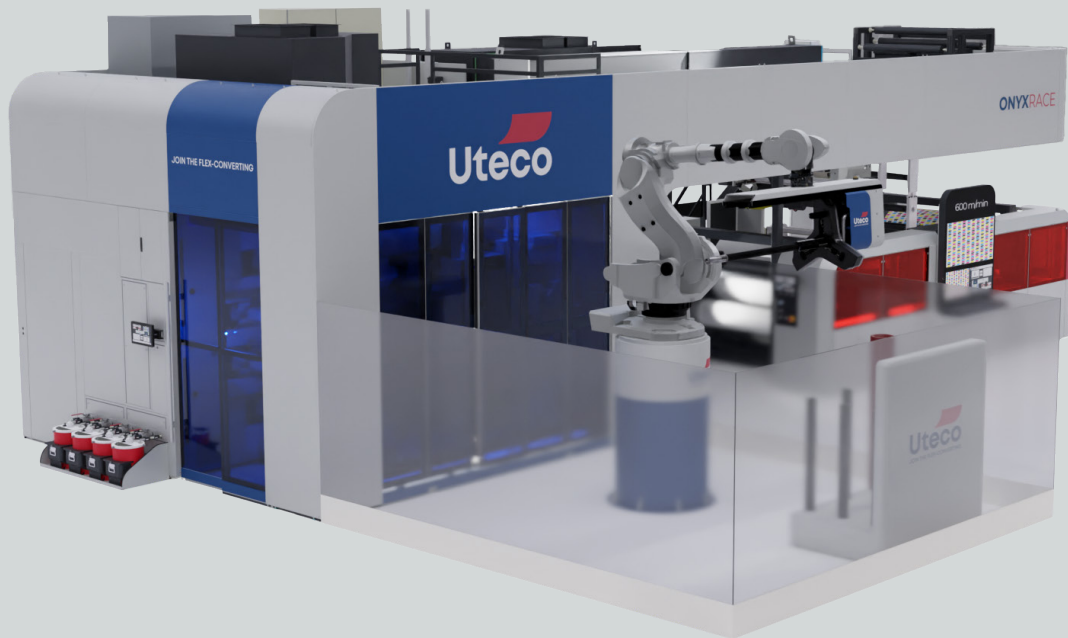
**Flying Deck
Technology**

Technical Specifications

Parameter	Unit of Measurement	Value
Material width	[mm]	1050 ÷ 1650
Min/Max print repeat ranges	[mm]	320 ÷ 850 360 ÷ 1200
Max speed	[mpm]	600
Color Units	-	8/10
Material tension	[daN]	2 ÷ 40
Inks	-	Water/solvent Water+ Solvent

OnyxRACE

Setting the Pace for Sustainable Printing.



Up to

600

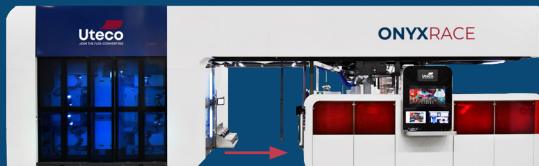
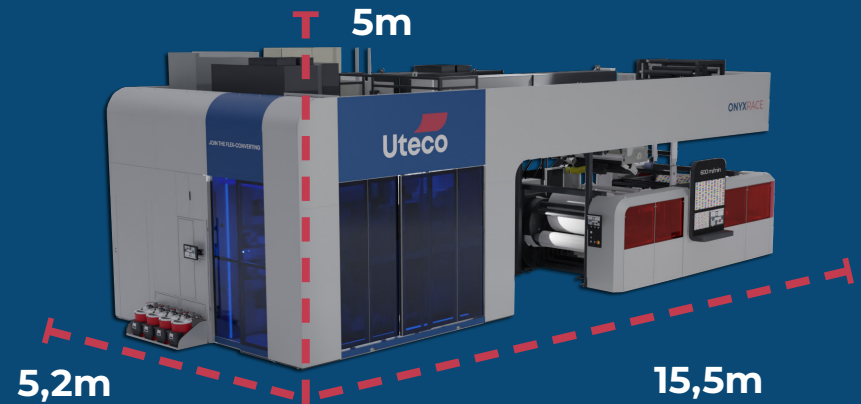
mpm max
speed.

Down to

8m

material waste
during job start-up.

Just **80 sqm Footprint**



Designed according to
principles that are **functional** to
the greatest productivity.

The **Most Sustainable** in the Medium
Run Flexo Segment, **EVER!**

ACTIVE PACK

Active Start
Active Dry®
Active Dry - T
Active Ink

Save up to
300K€/Year
in Energy and Material
Consumption Costs



BounceVoid

3x Higher Robustness
of Printing Group for
Higher Printing Quality.

The **Best Robot** for
Automatic Sleeve
Changover.



Fully Integrated with our Downstream Units
for **Special Applications.**



Proprietary
Technology



Fully
Integrated



Smooth
In-Register Printing



High Quality
Printing



Short Web
Path

ACTIVE PACK
+
DYNAMIC PACK
+
SLEEVEBOT

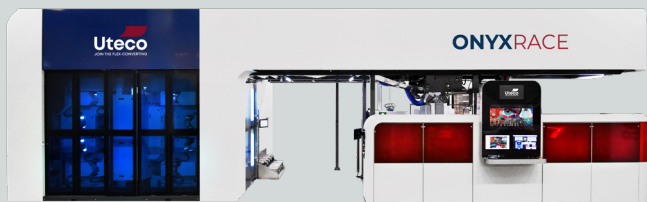
Save up to **400K€/year** in
energy consumption and
consumable material while
adding productivity!



OnyxRACE - Total Cost of Ownership

Our Technologies enable amazing **Savings** and **Productivity**.

ONYXRACE is for **FREE!**



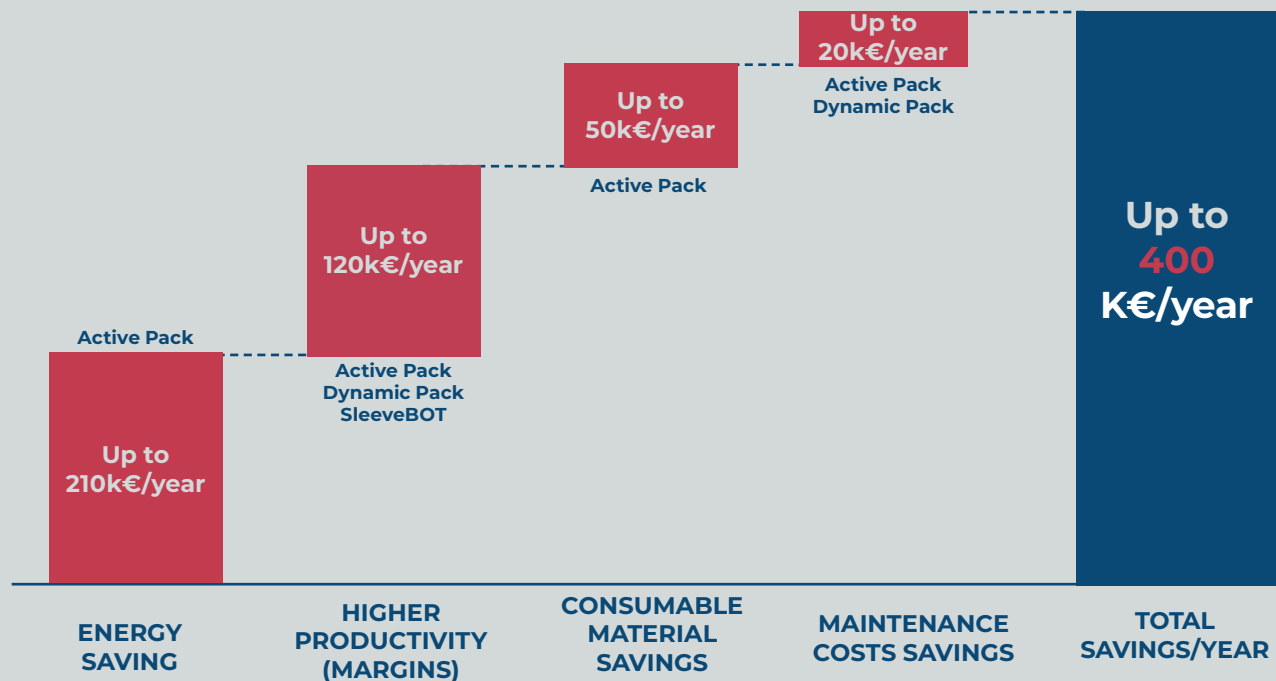
Discover the Best **ESG**-oriented
techs in the market.

Save up to **400K€/year** in
energy consumption and
consumable material while
adding productivity!

ACTIVE PACK
DYNAMIC PACK
SLEEVEBOT


OnyxRACE - Total Cost of Ownership

Our Technologies enable amazing **Savings** and **Productivity**.



Our Company

Printing and Converting: All Round **High Tech Innovation.**



We provide innovative and flexible solutions from a wide range of **flexographic, rotogravure, digital printing, laminating and coating machines** and a corollary of comprehensive training and support services.

We develop **special and customized configurations** of high technological value, with an ongoing commitment to research and **innovation, organizational flexibility, engineering capabilities for final solutions**, optimization of production processes, and a fast and efficient worldwide service network.

Our Customer Service

Our Customer Service has **Everything You Need.**

Our expert **Customer Service teams** are **available 24/7** to respond quickly and effectively to requests for maintenance, repairs and operational renovations to machinery and systems, **both on-site and remotely (My Portal).**

Ready for your
new machine?
Don't forget about
our customer service



Find out more!

On Field Assistance

We provide complete **life-cycle support services and printing processes** to ensure maximum performance throughout the entire lifespan of the machine.

Remote Assistance

Thanks to the newest technologies available on the market we guarantee **the best real-time support.**

Upgrades Service

We provide improvements of the efficiency and performances of your machine's processes, aligning them to the **latest technological market trends.**

Spare Parts

We have a series of spare parts checked and guaranteed by us.

Equipment

We offer equipment solutions to be added to your specific machine to **boost its performance and efficiency.**



JOIN THE FLEX-CONVERTING





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