

VERTICAL & HORIZONTAL LAMINATORS FOR GLASS & MIRRORS

WALCO®, EXPERT IN INDUSTRIAL LAMINATORS





ABOUT WALCO

WALCO® is a strong brand formed by three skilled and talented companies specialized in laminators, based in Western Europe & the US.
In 2017, WALCO® joined the leader in surface solutions, NOVACEL®, and became the first global engineering group dedicated to the protection for all sensitive substrates.

3 KEY FEATURES

- Innovation & design
- Responsiveness and customer-oriented mindset
- Safety & ergonomics

Plus all the strength provided by over 60 years of shared experience in laminators.

VALUES FOR CUSTOMERS

- Innovation
- Listening to & advising our customers to meet their protection challenges
- Meeting our commitments (design to cost, on-time delivery)
- Extended after market services

CUSTOMER SERVICES

- Engineering: design, production and support
- Installation: test & simulation
- Training: operators & safety
- Spare parts program

— HORIZONTAL LAMINATOR

TX PRECISION

WALCO® TX Precision laminator is an in-line and off-line laminator with high precision automatic cutting system.



Working Widths

1,300 mm (51")
1,600 mm (63")
2,000 mm (79")
Other sizes available on customer request



Added Value

Possibility to apply several pieces of protective film to the same substrate
Automatic film tension control (no film elongation)
Automatic length based on each piece
Fully adjustable
High level of sophistication



Thickness

0.5 mm to 80 mm (0.02" to 3.15")

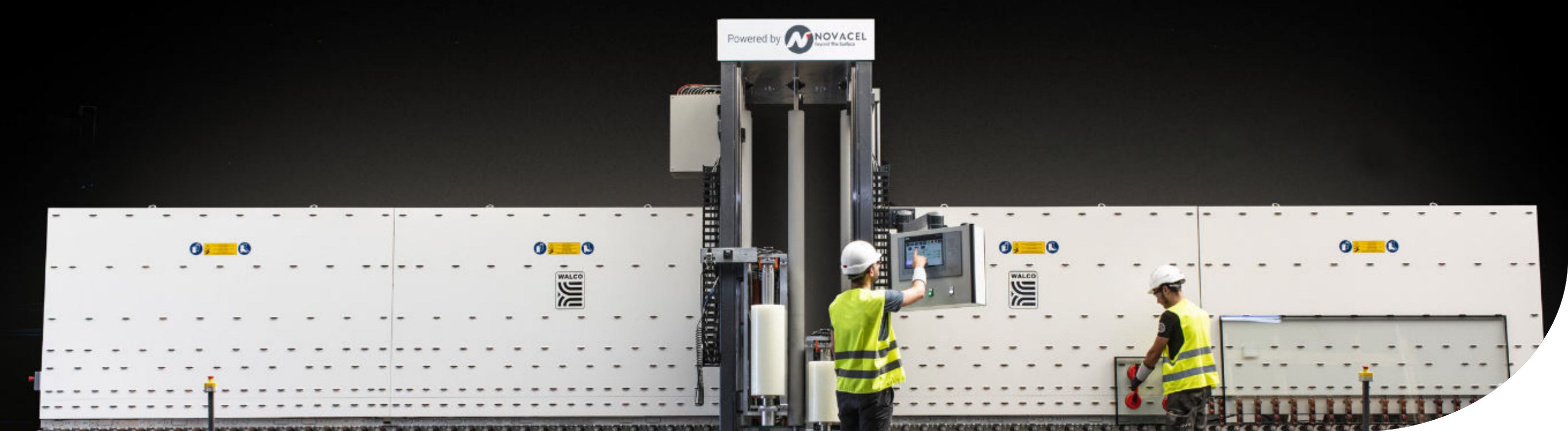


Cutting System

Automatic: Negative, cut-to-edge or positive

Safety & Ergonomics





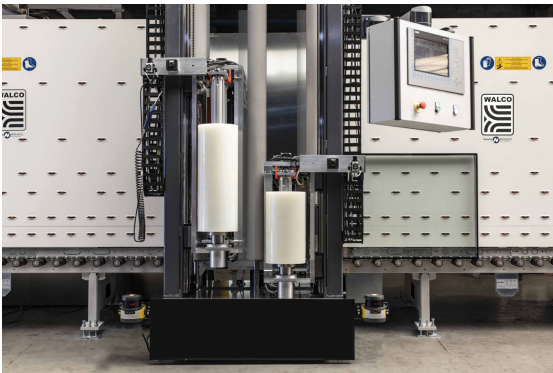
VERTICAL LAMINATORS

We develop unique vertical laminators custom-designed for the application of a temporary protective film on Insulated Glass Units and flat glass.

| Machines | Working Dimension | Foot print | IGU Thickness | Film application | Lamination Characteristics |
|------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|----------------------------------------------|
| VX smart | Height: Minimal linked to the film roll size – Until 3000 mm (118") Length: 500 mm to the maximum + conveyors length | Height : 3400 mm (134") Width : 750 mm (5.2") Depth : 3200 mm (126") Length : 5770 mm (227") with conveyors of 2510 mm (100") each | 4mm (0.16") up to 80mm (3.2") | Single* | Standalone vertical laminator |
| VX2 | Height: 300 mm to 3,200 mm (12" to 126") Length: 500 mm to the maximum conveyor length | Height : 3600 - 4500 mm (141-177") Depth : 4200 mm (165") Length : 11 300 mm (445") with 2 x 2 conveyors of 2510 mm (100") | 4mm (0.16") up to 80mm (3.2") | Double-sided | Precise film application |
| VX on line | Height : 300 mm to 3,200 mm (12" to 126") Length: 500 mm to the maximum conveyor length | Height : 3600 - 4500 mm (141-177") Depth : 4200 mm (165") Length : 12 000 mm (472") with 2 conveyors of 2510 mm (100") and 3 of 1190 mm (47") | 4 mm (0.16") up to 80mm (3.2") | Double-sided | High volume application High productivity |

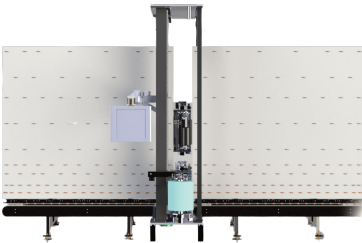
WALCO ASSETS

- Perfect film application on your substrates : Bubble-free, Wrinkle-free, No film elongation
- Safety & Ergonomics
- Easy to use
- Industrial & compact



OUR PRODUCT RANGE

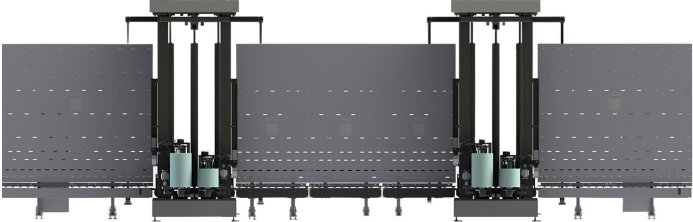
VX SMART



VX 2



VX ON LINE

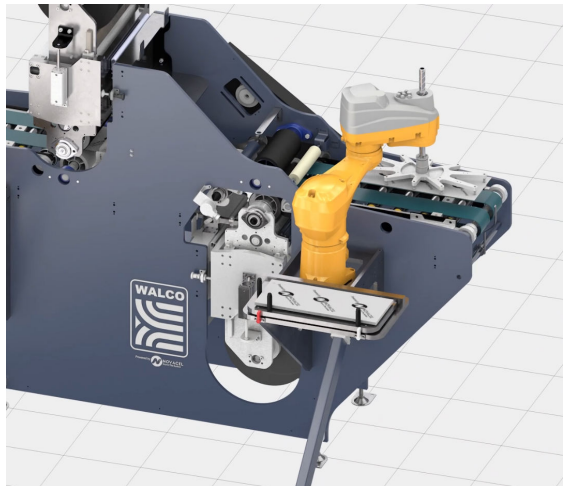


ADDED VALUE

- WALCO® patent on film positioning and cutting system.
- Entry-level machine
- Reduced foot print (Length about 7 m)
- Automatic application of film width with respect of glass size
- Protection of both sides of the glass in a single pass
- Only 30 sec to cover both sides of 1 square meter



- In addition to the VX2 :
- Compatible with any brand of glass assembly line
 - Non stop during the glass production
 - Reduced cycle time



CUSTOM DESIGNED

WALCO® develops custom-made laminators to meet your technical needs, large widths or heights, high speeds, different widths or heights for each substrate, special layouts, application of consumables other than protective film, etc.

Thanks to WALCO®'s technical know-how, we can meet your application requirements.

ADDITIONAL EQUIPMENT

- De-palletizer and automatic palletizer to handle panels at the entrance and exit of the lamination process;
- Lifting tables and feeders;
- Rollers or disc conveyors;
- Bidirectional translators;
- Turning devices;
- Robotic arm for workpiece handling

FOCUS ON NOVACEL SOLUTIONS

Since 2017, WALCO and NOVACEL have shared their knowledge and experience about the surface protection. We also worked with our customers to understand how we can help them to be more efficient in their process.

| Application | Grade | Product Type | Thickness (µm/mils) | Color | Outdoor Resistance | Features |
|--------------------|-------|--------------|---------------------|-------------------|--------------------|---------------------------------------------------------------------------------------------|
| IGU | 9343 | Film | 49 / 2 | Clear transparent | 12 months | Compatible with VX2 new generation |
| IGU | 4565 | Film | 49 / 2 | Blue | 12 months | Compatible with VX2 new generation |
| IGU | 9561 | Film | 70 / 2.8 | Clear transparent | 12 months | Compatible with VX2 + VX2 new generation |
| IGU | 3110 | Film | 70 / 2.8 | Clear transparent | 12 months | Compatible with VX2 + VX2 new generation - Eco-responsible solution |
| Mirror safety back | 9212 | Film | 70 / 2.8 | Clear transparent | NA* | Permanent PET EN12600 2B2 |
| Mirror safety back | 8028 | Film | 145 / 5.7 | White | NA* | Permanent PE USA - Cat I |
| Coated glass | 4201 | Film | 50 / 2 | Clear transparent | none | - |
| Acid etching | 4178 | Film | 25 / 1 | Clear transparent | none | - |
| Acid etching | 3120 | Film | 28 / 1,1 | Clear transparent | none | Eco-responsible solution |
| IGU | BN53 | Masking Tape | 80 / 3.2 | Green | NA* | PET carrier with silicone adhesive High temperature resistance up to 180°C / 355°F |
| IGU | BN23 | Masking Tape | 60 / 2.4 | Green | NA* | PET carrier with silicone adhesive Tape, high temperature resistance up to 130°C / 265°F |

NA*: Not Applicable



WHY USE NOVACEL SOLUTIONS?

> A Global Solution Provider

Novacel offers complete solutions with industrial processing films, technical tapes, paper products, machines and associated services.

> Unique features for your specific needs

We create innovative solutions to improve your industrial efficiency and to take care of people; films dedicated to new surfaces or processes, low noise, easy peel or easy to unwind.

> Expertise & Technical support

Our teams are dedicated to provide you the best experience and to assist you from the initial search for the right solution right up to its final implementation.

> A Strong CSR Commitment

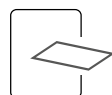
Novacel keeps working on its carbon footprint by improving its production, creating eco-responsible solutions and placing human well-being at the heart of its strategy

For more grades or information, please refer to your sales representative.

— OTHER APPLICATIONS



Pre-coated Metals



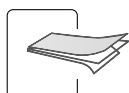
Plastics



Bare Metals



Profiles



Laminates



Glass & Windows



ASK FOR FREE RECOMMENDATIONS ON WALCO® LAMINATORS

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