Laminating, Coating and/or Converting Design System by [redacted]

[redacted] builds all machines to exactly meet your requirements. The design process starts here. With some simple answers, [redacted] can quickly determine your needs and get you quoted. [redacted] uses 20+ different "standard" models and 230+ proven upgrade modules, plus decades of laminating, converting and coating history to meet your system requirements

Please include as much detail as possible. This helps us configure the correct system for your application.

Attention Purchasing Department please provide information: from the first section. Then click on the send button on the bottom of the page

First Name:

Last Name:

Title:

Organization:

Work Phone:

FAX:

E-mail:

Attention Engineering and Maintenance Departments if you know what the system requirements are you may fill out the information below. *It is not required.* If you know what system is needed and want to provide additional system requirements please skip to the appropiate section, fill in and click the send button.

Please Select System Type

Briefly describe what you need to do and indicate if you require more than one system.

Widths capability needed?

Line speed

Select Off-Line or In-line Application

Heat or No Heat Needed

Hazardous electrical systems required?

When would you like your new system operational?

Please select time frame system is needed

Automated/ Inline needed?

If **your PLC / HMI will be controlling**, Walco provides the needed written operating sequence, proximity sensor(s), photo eye(s), automatic tension controls, your selected variable speed control and motor, all terminating in a provided terminal junction control box (NEMA4 rated). You provide the needed PLC, hard & software to control all aspects of the laminator.

If [redacted] **will be providing the PLC / HMI** to control, Walco provides ALL needed PLC / HMI / Programming / Hard and software, fully installed and tested.

Is Automatic nip control needed?

via servo motor – PLC operation required.

Is Automatic Drive Control needed?

Manual / Auto selector switch gives foot pedal or sensor control of the main drive motor. Sensor "sees" incoming substrate and activates drive motor. Client's

adjustable timer stops the drive motor after lamination.

Is Automatic pass through needed?

allowing lights to pass through without being laminated

Are casters needed?

Heavy duty, 6.0" OD x 2.0" wide, red urethane wheeled casters allow for easy movement across all industrial surfaces. Two (2) swivel, two (2) fixed, with locks.

Choose the type of Conveyors

Heavy duty – Powered: to match width, lengths up to 15 feet. (Flat substrates only)

a. Wheeled – non-marring grey Buna wheels
b. Roller – galvanized, rubber, steel or EPDM rolls
c. Belted – full-width or adjustable ½ - 2.0" wide individual belts
No power - Gravity (no power) style, UHMW non-marring rollers, set at 12.0" centerlines (optional 6.0").
Edge guides - Fixed edge guide
Multiple fixed pinned location edge guide
Adjustable across the full width roller type edge guide
Thin substrate full width adjustable edge guide for substrates under 3/16 inch.

Corona Treatment module needed?

molecularly "scuffs up" your flat substrate or web for better film or coating adhesion. (Plastic, nylon, acrylics only)

Heater Bar ?

including needed silicone covered top roll, heater on/off switch and temperature control.

Heaters ?

External to roll or Internal roll

Infeed Stainless Steel Table ?

with micro adjustable edge guide (24.0" depth x laminator width. (Flat substrates only)

Large nip opening ?

and lamination capability. (standard is 2.0 inches)

Load Cells ?

Digital nip pressure displayed on Operator control panel.

Ovens ?

UV curing / IR / Hot Air

Panel Cleaner and Air Blow Off - powered ?

Reverse direction rotary brushes clean each incoming substrate of dust and debris. The debris is removed by a vacuum removal system into a Walco

provided container.

Roll Out Cart ?

(Inline applications) – allows the entire laminator assembly to be removed from the line by simply releasing position pins and rolling it along the provided hard

mounted 12 foot tracks.

Safety Air Cylinders ?

Automatically opens the nip gap when any E-Stop is activated.
Includes panel mounted Raise, Lower push buttons, air pressure regulator and

gauge. This gives down pressure adjustability up to 15 pounds per linear inch (ppli) without deflection.
If more down pressure is necessary, Walco can supply lager OD nip rollers to hit a maximum of 50 ppli.

Safety Cage ?

full perimeter fencing with safety interlocked access doors.

Safety Light Curtains ?

Surrounding either / or full perimeter or running lengths

Scissor Lift ?

Entry and / or exit end – allowing your team to easily unload and/or stack the incoming/outgoing substrates onto a pallet, lowering and lifting to the table

height as needed

Side Loading?

Allows easy side loading of any substrate onto the gravity style conveyors. 7 foot long x 5 rollers

Single Point nip gap / metering adjustment ?

Operator can adjust the nip gap via one hand wheel, with digital mechanical position gauge.

Single mobile platform ?

Includes – both conveyors and system mounted to a 3 x 3 x 1/8" wall steel tubing platform with six (6) HD lockable swivel casters.

Special or Overseas electrical ?

Start-Up Assistance ?

[redacted] standard labor rate for assistance

Sticky Roll / Cleaner module ?

cleans your flat substrate or flexible web immediately prior to lamination via sticky roll technology – dramatically reducing post lamination dust and debris

under the laminate or film.

Variable Speed Control ?

With AC or DC motor and electronic VFD, 4 - 45 fpm speeds, variable and
Includes panel mounted variable speed control pot, On/Off, Forward / Reverse.

Vertical Light Tree ?

shows from a distance that power is on (green), the applicator is in operation (yellow) or an alarm condition has been activated (red).

Laminating / Converting / Application applications only

Additional Unwind Stations ?

Additional Unwind Stations, including unwind shaft, cone, plug and split pillow block bearings.

Airbrakes ?

Airbrakes - for precise unwind tension control. Includes panel mounted air pressure regulator, on/off switch and placard.

Air Shafts ?

Air Shafts for quick film replacement

Anti-Static Bar ?

Anti-Static Bar minimizes static charge when release liner is removed from the film. (paper laminates need static bars). Includes power "on" lamp, On/Off

switch and flashing monitor lamp.

Automatic Unwind/rewind Tension controls ?

Automatic Unwind/rewind Tension controls and reporting – closed loop tension controls, with load cell(s), automatically adjusting the needed PLI

(pounds per linear inch) within your Operator set parameters.

Automatic Separation Systems ?

Automatic Separation Systems – Cut on the fly or stop to cut. Flap or no flap. Cuts between the leading and trailing edge of each board, post-

lamination cycle. Additional details on operation and costs can be sent over separately. Types include:
HOT Wire - stop-to- cut or cut-on- the-fly
Dual Razor Knife –stop-to- cut or cut-on- the-fly, no flap (Plastic films only)
Perforation
Guillotine sheeting (on-the- fly)

Automatic Edge trimming station ?

Automatic Edge trimming station - rolling air controlled knives pushing against a powered mandrel with vacuum trim removal/collection system.

Automatic Edge Guide system ?

Automatic Edge Guide system - servo controlled, air actuated unwind station carts are moved by a closed loop edge positioning feedback sensor, automatically

aligning each web.

Bottom Unwind Station ?

Bottom Unwind Station - for simultaneous top and bottom laminating needs and Includes 40" stubby conveyor if 2+ bottom unwind stations are ordered.

Bottom unwind station rolling cart ?

Bottom unwind station rolling cart to ease bottom laminate roll change outs.

Bottom Trolley ?

Bottom Trolley – To easily change the bottom unwind roll. Just lay the shaft end on top of the trolley and pull it out from under the Walco. Simple!

Bowed Rolls ?

Bowed Rolls - to help eliminate any possibility of wrinkles (paper laminates need bowed rolls).

Cantilevered Unwind Stations ?

Cantilevered Unwind Stations - eases lamination roll replacement

Anti-Static Bar ?

Edge Wrapping - wraps your web 05 - .75" along each running edge automatically

End-of-Film Alert ?

End-of-Film Alert - overhead audible and illuminated low and empty film alerts.

High Pressure Lamination Rolls ?

High Pressure Lamination Rolls – High Pressure lamination / nip rolls are substituted for standard rolls, used for permanent lamination films requiring 15 –

50 ppli pressure for application.

Larger than standard 14.0" OD unwind and rewind stations ?

Larger than standard 14.0" OD unwind and rewind stations.

Lateral Adjustability ?

Lateral Adjustability - – enabling the Operator to manually adjust the film's edge placement +/- ¼" while in Operation.

Mechanical Core Locks ?

Mechanical Core Locks - for very easy laminate roll change outs.

Rewind station - powered ?

Rewind station – powered, top, bottom or both - automatically removes release liner or rewinds a web. With air clutch, on/off switch and air pressure

regulator with gauge

Rotational Top Unwind stations - carousel ?

Rotational Top Unwind stations - carousel - 4 – 5 unwind station capability. 14.0" max. film OD.

Segmented / Differential Rewind shaft ?

Segmented / Differential Rewind shaft – automatically provides the needed rewind tensions to multiple width cores on the same rewind shaft. Eliminates the

need for dual powered rewind stations when slitting.

Silicone Lamination Rolls ?

Silicone Lamination Rolls - used to help keep aggressive films from sticking to the rolls

Slitting module - powered ?

Slitting module - powered - Rolling crush cut pneumatically controlled knives slit against a hardened steel, powered anvil roll. Minimum width is 5/8".

Slitting - On-roll ?

Slitting - On-roll - Weighted knife cuts film, leaving scrap film on the core

Spare top and bottom unwind shafts ?

Spare top and bottom unwind shafts - with Walco plug and cone, plus alignment collars

Coating applications only

Anti-Wrap air manifold ?

Anti-Wrap air manifold - (Coater) - continuous or timed / pulsed air. For thin substrates.

Automatic coating level control ?

Automatic coating level control - (Coater) - including removable UHMW end dams, pump and air control valves.

Air Knife ?

Air Knife – Incoming – adjustable height air knife – blowing air across entire width of incoming lite.

Dual head, inline roll coaters ?

Dual head, inline roll coaters - for multiple coating applications

End Dams with coating return ?

End Dams with coating return - keeps the coating material recycling back to its original container.

Grooved Coating rolls ?

Grooved Coating rolls - for thicker coating requirements.

Heated top silicone roll ?

Heated top silicone roll – (Coater - external) - - heater controls and ceramic or IR style heaters

Pull-Away for web coating ?

Pull-Away for web coating

Scrapper blade ?

Scrapper blade – (Coater) - for continuous cleaning of bottom drive roll: Includes adjustment handles.

Special crotch roll opening ?

Special crotch roll opening – (Coater) - up to 6.0 inches.

Stainless Steel auxiliary feed tanks ?

Stainless Steel auxiliary feed tanks – (Coater) - 5 gallons (19 liters), with either single valve fill or double valve fill.

Upper Acrylic Guards ?

Upper Acrylic Guards - helping to seal off the crotch area – helping to keep it dust free.

UHMW end dams ?

UHMW end dams – removable, adjustable? – (Coater) - (standard end dams are aluminum discs).

Thank you for your interest in [redacted] We will respond to your request within one (1) Business day.