

## Kitchen Countertop Machines AUTOCOVE COVING



### AUTOCOVE COVING MACHINES

The Evans Midwest family of AutoCove™ machines is uniquely designed to postform the inside radius of a kitchen countertop or vanity top with a coved backsplash, in high volume production environments. The key to producing a quality backsplash is a rigid frame and rear fence, uniform contact of the countertop to the heating element, and a concentric forming bar to prevent stretching. The AutoCove™ Coving machine is designed to meet these specific objectives. Midwest machines have been used extensively in the kitchen countertop industries for over 50 years. We help you laminate better, increase productivity, and improve quality.

#### AUTOCOVE AC 3120

The AC 3120 is the perfect machine for the medium size kitchen countertop manufacturer designed to produce up to one countertop per minute, or 5,000 linear feet per shift.

The pneumatic deck lift & clamp system, electronically controlled heat bar, cove-stick feeding/clamping system, and unique two-stage forming mechanism ensure a true 90° backsplash every time.

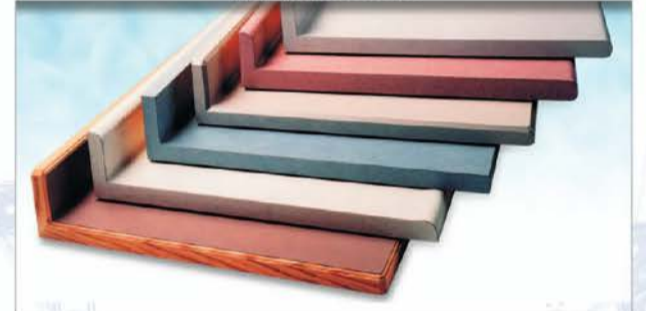
Optional powered infeed conveyor and automatic loading system maximizes through-put without additional labor.

#### FEATURES

- Heavy-duty frame with additional cross support beams to reduce flexing
- Rigid rear fence assembly with large diameter jack screws and seven (7) contact points
- Pneumatic lift and clamp system with air bladder and hold-over cylinders to ensure countertop contact with rear fence and cove bar assembly
- Aluminum cove bar assembly with electronic temperature controls
- Automatic cove-stick system with electronic linear actuated pusher and variable speed control
- Cove stick placement rack with five (5) pneumatic cylinders

- Nordson Durablu™ Hot Melt System with air-actuated glue gun and manifold
- Automatic form bar assembly with unique twin cylinder, dual actuating design ensures concentricity
- Ten (10) 90° stops
- Electronically controlled with adjustment
- Operator interface (HMI) with PLC controlled sequence or operation
- Special infeed and outfeed conveyors
- Optional automatic load/unload system

#### TYPICAL PROFILES



#### Operator Interface



Operator interface with color monitor and PLC controlled sequence of operation

#### Lift & Clamp System



Pneumatic bladder and hold-over cylinders to ensure uniform contact and temperature

#### Cove Bar Assembly



Aluminum cove bar with electronic temperature controls and 90° stops

#### Form Bar Assembly



Unique twin cylinder, dual actuating design ensures concentricity

#### Cove Stick Feeder



Automatic cove stick feeding system with air actuated glue gun

#### Cove Stick Rack



Cove stick placement rack with (5) pneumatic cylinders

### AUTOCOVE COVING MACHINES



Shown with powered infeed conveyor, laminate preheat, powered outfeed conveyor, and automatic cove stick magazine.

#### AUTOCOVE AC 3125

The AC 3125 is the perfect machine for the medium size kitchen countertop manufacturer designed to produce up to one countertop per minute, or 5,000 linear feet per shift.

The pneumatic deck lift & clamp system, electronically controlled heat bar, cove-stick feeding/clamping system, and unique two-stage forming mechanism ensure a true 90° backsplash every time.

Optional powered infeed conveyor and automatic loading system maximizes through-put without additional labor.

#### FEATURES

- Heavy-duty enclosed frame eliminates flexing
- Gas spring operated access doors
- Heavy-duty rear fence with large diameter jack screws and seven (7) contact points
- Automatic loading/unloading system with polyurethane v-belt
- Pneumatic lift and clamp system with air bladder and hold-over cylinders to ensure countertop contact with rear fence and cove bar assembly
- Aluminum cove bar assembly with 8, 10 and 12 foot heat zones
- Three (3) electronically controlled heat zones to eliminate scorching of laminate
- Automatic cove stick system with electronic linear actuated pusher and variable speed control
- Cove stick placement rack with five (5) pneumatic cylinders
- Nordson Durablu™ Hot Melt System with air-actuated glue gun and manifold
- Unique form bar assembly is electronically driven with chains at four (4) connecting points to ensure concentricity
- Electronically controlled form bar speed
- Electronically controlled width adjustment
- Special infeed and outfeed conveyors
- Optional infrared pre-heat system with electronic temperature controls
- Optional automatic stick feed magazine with three (3) racks for 8, 10 and 12 foot long cove sticks

#### Inside View



Form bar assembly is electronically driven with chains at four points and includes electronic variable speed control

#### COVING STEPS



#### HOW IT WORKS

Step 1: Heating Laminate

Step 2: Postforming Backsplash

Step 3: Gluing and Inserting Cove Stick