

## Kitchen Countertop Machines CORFAB TENONERS & SHAPERS



### CORFAB TENONERS & SHAPERS

Evans Midwest has been designing and manufacturing machines for the kitchen countertop industry since the early 1970s. The Midwest family of Corfab Tenoners and Shapers is uniquely designed for the production of kitchen countertops, bartops, and vanities from particle board, plywood or MDF substrates in high volume production environments. Corfab machines are used to prepare countertop cores, starting with a blank particle board panel, and ending in a machined countertop core ready for laminating. Bottom line? We help you increase productivity, and improve quality.

#### CORFAB MACHINES

##### Model CF 1540

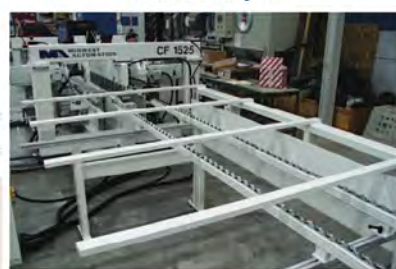
The Corfab™ CF 1540 is a double-sided, entry level kitchen countertop machining center designed to automatically feed and glue pre-cut solid wood, particleboard, MDF or composite build-down, scribe and/or no-drip sticks to the panel in a continuous operation.

Once the sticks are glued and bonded to the core, the panel continues through vertical and/or horizontal shapers where the edges are machined to the desired profile. Vertical spindle shapers, with 220 mm long shafts and stacked tooling allow multiple profiles to be produced with minimum set up. The unique 2 to 1 ratio center drive design provides a right hand or left hand fixed side for inline operation.

#### COUNTERTOP SAMPLES



#### Infeed Conveyor



Infeed wheel conveyor with overhead rack for staging build-down, scribe and no-drip sticks

#### Stick Feed Assembly



Stick feed drive motor(s) automatically aligns and feeds build-down and scribe sticks onto the bottom of the core

#### FEATURES

- Compact, double-sided design with center drive
- Heavy duty welded frame with unique 2 to 1 ratio fixed side design
- Transport chain assembly with 3-3/16 inches wide carrier blocks
- Rubber drive pads vulcanized to steel plate and mechanically fastened to carrier blocks
- AC drive motor coupled directly to drive sprocket
- Electronic variable speed control with digital display
- Upper beam with double rows of 2-3/4 inch diameter hold-down wheels
- Power width adjustment with high-speed ball screws and linear bearings
- Hand-wheel operated upper beam adjustment with dial indicator
- Two (2) double cast-iron columns per side with machined dovetail slides
- Sizing, milling and shaping units include horizontal and vertical adjustment on dovetail slides
- Sizing/milling/shaping units are tiltable from 0 to 180 degrees
- Spindle motor sizes up to 10 hp (7.7kw) and shaft lengths up to 8-5/8 inches
- Operator Interface (HMI) PLC controls

#### PLUS

- Automatic build-down and scribe stick system
- Optional no-drip stick system
- Nordson Durablu™ hot melt system
- Special infeed and outfeed conveyors
- Overhead stick rack mounted over infeed conveyor
- Optional carbide and diamond tooling packages

#### No-Drip Assembly



Optional No-Drip Stick System with pneumatic clamping

#### Hot Melt Dispenser



Aligns sticks precisely to the edges of the core

### CORFAB TENONERS & SHAPERS

#### CORFAB MACHINES

##### Model CF 1545

The Corfab™ CF 1545 is the next step in simplifying the kitchen countertop manufacturing process. The CF 1545 is a double-sided, kitchen countertop machining center, designed to automatically cut particleboard sticks from the edges of the core, while simultaneously feeding, gluing and clamping them to the top and/or bottom of the core, in a continuous operation.

The system includes a Nordson™ Hot Melt Applicator sized to production requirements.

Corfab™ models can be configured with pneumatic and electronic positioning units to minimize set up.

Optional infeed end milling units can mill relief cuts or dado recesses into the core to enhance the profile lock and durability. Once the sticks are glued and bonded to the core, the panel continues through vertical and/or horizontal shapers where the edges are machined to the desired profile.

Vertical spindle shapers, with 220 mm long shafts and stacked tooling, allow multiple profiles to be produced with minimum setup. The unique 2 to 1 ratio center drive design provides a right hand or left hand fixed side for inline operation.

#### Vertical Spindle Shaper

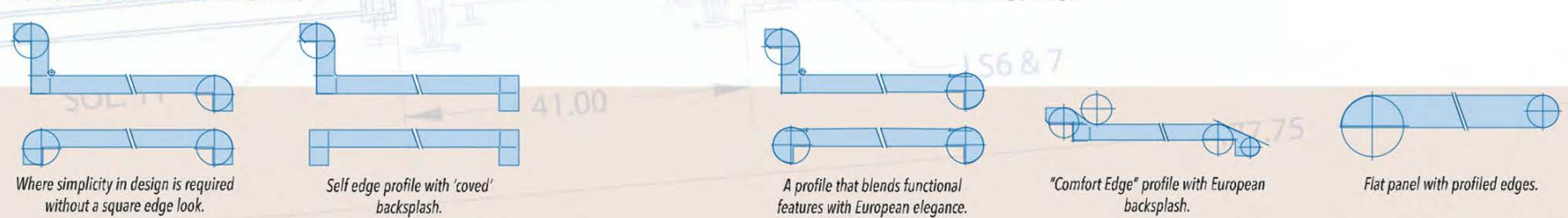


Vertical spindle shaper with stacked tooling to reduce setup

#### SAME FEATURES AS CF 1540, PLUS

- Infeed sizing saw units with custom engineered cutter head assemblies
- Optional infeed end milling units to machine relief cuts and/or dados
- Automatic build-down and scribe stick system
- Optional no-drip stick and cove stick systems
- Nordson Durablu™ hot melt system
- Special infeed and outfeed conveyor systems
- Optional automatic panel feeders
- Optional pick and place loading systems
- Optional electronic motor brake kits
- Optional carbide and diamond tooling packages

#### TYPICAL COUNTERTOP PROFILES



### CORFAB TENONERS AND SHAPERS

### Optional Panel Feeding Equipment

#### CORFAB MACHINES

##### Model CF 1515

The Corfab™ CF 1515 is a compact, double-sided, sizing/shaping machine that is designed for in-line dimensioning and profile shaping wood parts such as work surfaces, kitchen countertops, door and drawer fronts, and other furniture components. Made for heavy work loads where throughput and accuracy are a priority, the CF 1515 is a great alternative to a double-end tenoner which is often cost prohibitive.

#### FEATURES

- Compact, double-sided design with center drive
- Heavy duty welded frame with unique 2 to 1 ratio fixed side design
- Transport chain assembly with 3-3/16 inch wide carrier blocks
- Rubber drive pads vulcanized to steel plate and mechanically fastened to carrier blocks
- AC drive motor coupled directly to drive sprocket
- Electronic variable speed control
- Upper beam with double rows of 2-3/4 inches diameter hold-down wheels
- Power width adjustment with high-speed ball screws and linear bearings
- Hand-wheel operated upper beam adjustment
- Two (2) double cast-iron columns per side with machined dovetail slides
- Sizing, milling and shaping units include horizontal and vertical adjustment on dovetail slides
- Sizing/milling/shaping units are tiltable from 0 to 180 degrees
- Spindle motor sizes up to 10 hp and shaft lengths up to 8-5/8 inches
- Operator Interface (HMI) PLC controls

#### Main Drive Motor



AC drive motor coupled directly to drive sprocket

#### Double Column



Double cast iron column with sizing and shaping units

#### PF 1500V PANEL FEEDER

Uses vacuum cups to feed random panel lengths utilizing a fixed forward position from a lift table (scissors lift) without setup.



#### PF 1512 PANEL FEEDER

Uses a pneumatic pusher to feed panels of a given length from a lift table (scissors lift). Panel lengths can be manually adjusted.



#### POWERED ROLLER CONVEYOR

With pneumatic hold-over device to ensure that the panel is aligned properly to the fixed side as it enters the Corfab.