

APPROXIMATE MACHINE WEIGHT:
 A515CNC: 1234 kg (2720 lbs)
 A517CNC: 1660 kg (3650 lbs)

ELECTRICAL REQUIREMENTS:
 220/240 volt, 3 phase, 50/60 Hz, 80 amps
 380/480 volt, 3 phase, 50/60 Hz, 65 amps
 440/480 volt, 3 phase, 50/60 Hz, 25 amps

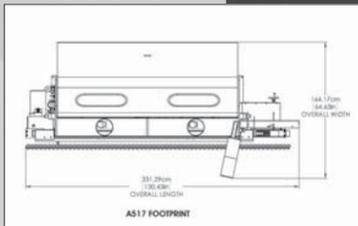
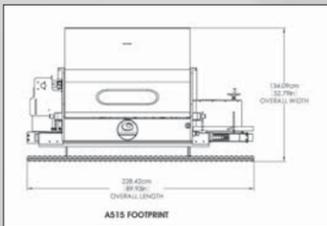
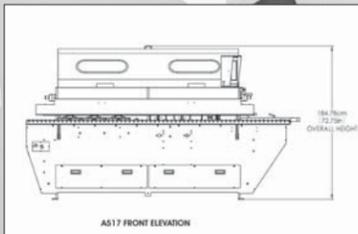
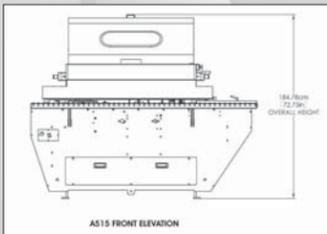
All voltages +10% -6%, all hertz +5% -6%

PNEUMATICS: 90 psig @ 3 scfm

SPINDLE SPECIFICATIONS:
 Shaping stations: Power: 7.5 hp @ 7200 rpm 5.55 kW @ 60 Hz
 7.5 hp @ 7200 rpm 5.55 kW @ 50 Hz
 Spindle adjustments: Tilt: 0-45°
 Horizontal: 152mm (6")
 Vertical: 76mm (3")

Acceptable Tool Diameter: 152mm (6") maximum

Sanding stations: Power: .56 kW (.75 hp) spindles @ 400-1725 rpm
 Spindle adjustments: Tilt: 0-45°
 Horizontal: 152mm (6")
 Vertical: 76mm (3")



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VOORWOOD COMPANY 03/2010 rev. 1:1



M25 Edge Mortise & Tenon and French Miters



A1515-CNC Arch Shaper Sander



L115 Edge Foiler



A15 Stile & Rail Shaper



A26 Cope Shaper



L4X Profile Laminator



S60 Slitter Rewinder

THE LATEST IN CNC FEED-THROUGH TECHNOLOGY

The Ability to Contour, Shape Edge Profiles and Finish Sand in a Single Pass!



A515/A517 CNC



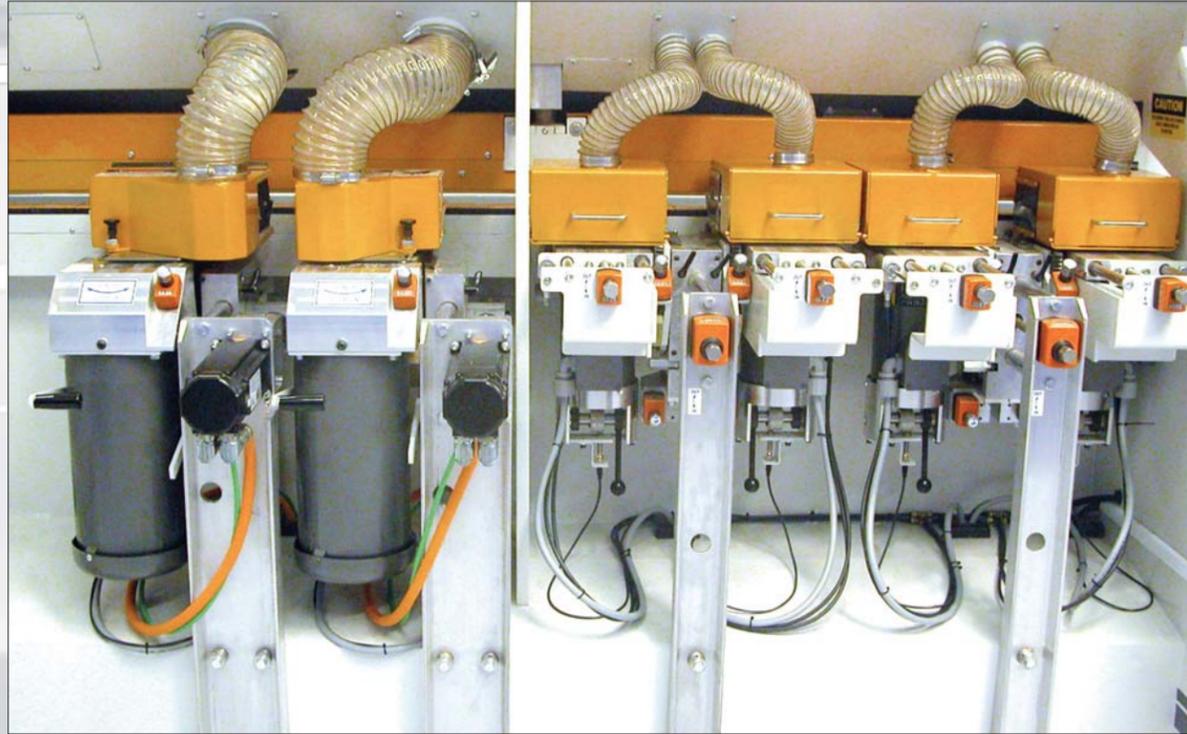
Meets or Exceeds CE and CAT III Safety Specifications



Voorwood engineers have developed the most user friendly interface in the industry. The entire calibration, setup, and operation of the machine are accomplished using only five different touchscreen displays. The main interface screen, as shown, allows the operator to monitor all motion on the machine.



When substrate is loaded against the precision edge guide, the width of the material is automatically measured. As the material is being fed into the machine, contour designs can be automatically scaled to match the width of the substrate.



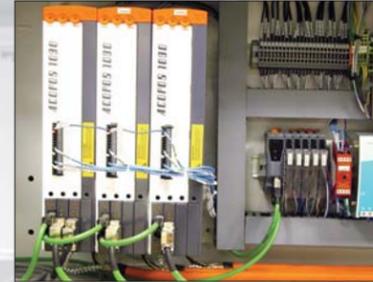
The transport system incorporates a bottom transport chain assembly and a combination roller and belt holddown assembly. The transport chain assembly is composed of a urethane top, double v-lug, travelling in a precision machined double v-track, guaranteeing precise linear translation of the part through the machine. The belt holddown consists of a non-marking urethane belt backed by a roller chain that provides holddown pressure every 12.7mm (0.5"). This allows the machine to take very large contour cuts while hanging on to a very small area. It is this technology that makes the Voorwood transport system the most secure and accurate in the industry.



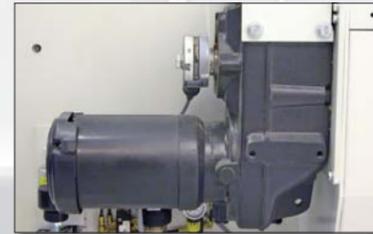
All stations can be setup with optional Quick Change spindles which have uni-directional expanding/contracting bodies that securely grip the heads. The expanding body also contains a drive key that aligns with a shaper/sander head keyway. A simple mechanical handle, shown in the photos above, activates the lock/unlock. This action is interlocked so that the spindle drive motor cannot be activated when the spindle is in the unlocked position.



All spindles are precision balanced and equipped with precision equalized drive motors. Clockwise and counter-clockwise rotations are used on specific shapers and sanders to eliminate rejects and produce the highest quality finished part. All spindles are equipped with user friendly angular, horizontal, and vertical adjustment. The A515 can accommodate up to five shaping/sanding stations while the A517, up to seven. Custom configurations can also be accommodated. Voorwood engineers pride themselves on designing machines that are easy to setup and maintain.



The entire control system is integrated into the machine frame requiring no external electrical cabinet. All motion control components are provided to Voorwood from B&R Automation and readily available throughout Europe and North America. The A515/517 communication network can also interface with any Ethernet network or phone line for downloads or monitoring by Voorwood.



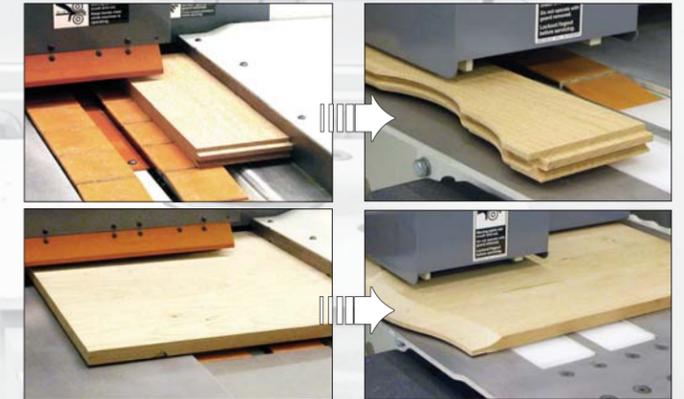
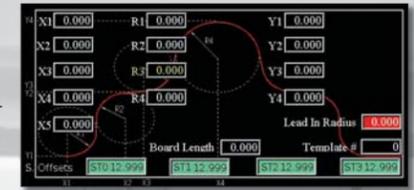
The transport chain drive assembly for the A517 model (shown) consists of a 1.5 kW (2 hp) drive motor and a 100:1 speed reducer. The drive assembly is capable of transporting material at 3.0-15.2 mpm (18-50 fpm).



The A515/517 can be configured with optional Auto Position Indication (API's) on all stations. The PLC monitors the axis position and will not allow the feed chain to be turned on until all axis positions are manually moved to the desired location for safe operation of the profile to be run. However, the horizontal axis for both shapers is servo controlled for cutting contours (arches). Position readouts are accurate within .025mm (.001").

CNC:

The A515/517 is equipped with an onboard design center for the designing of contour cuts. Designs can be viewed to scale on the touchscreen. Automatic downloads of contours from other cad software can be handled on request.



*Depending on model configuration, photos may differ.

Contours can be run through the machine in two different modes:

- a. Auto Scale Mode: The ability of the machine to automatically scale a single contour in various pre-programmable ways based on the width of the material being fed into the machine. The width can be automatically measured by the machine or input by the operator.
- b. Template Mode: The ability of the machine to automatically choose a totally different design based on the width of the material being fed into the machine.

Regardless of the mode chosen, material can run, one after another, with a minimum spacing of 76mm (3"), and any length contour can be designed and processed.

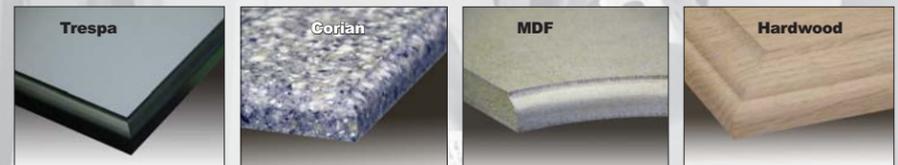
SUBSTRATE SIZE:

| | | |
|----------|-----------------------|---|
| Minimum: | width: | 38mm (1.5") plus 2X pattern face width |
| | length: | 88.9mm (3.5") plus 2X pattern face width |
| | Minimum part spacing: | 152mm (6") (applies to contour cuts only) |
| | Minimum thickness: | 3mm (.125") |
| | Maximum thickness: | 50.5mm (2.0") |
| | Maximum arch height: | 63.5mm (2.5") using a 152mm (6") head. |

APPLICATIONS:



MATERIALS:



Precision Built Machinery for the Woodworking Industry

Repeatable Automatic Positioning Indication

Capable of producing a contour every 2 to 5 seconds!