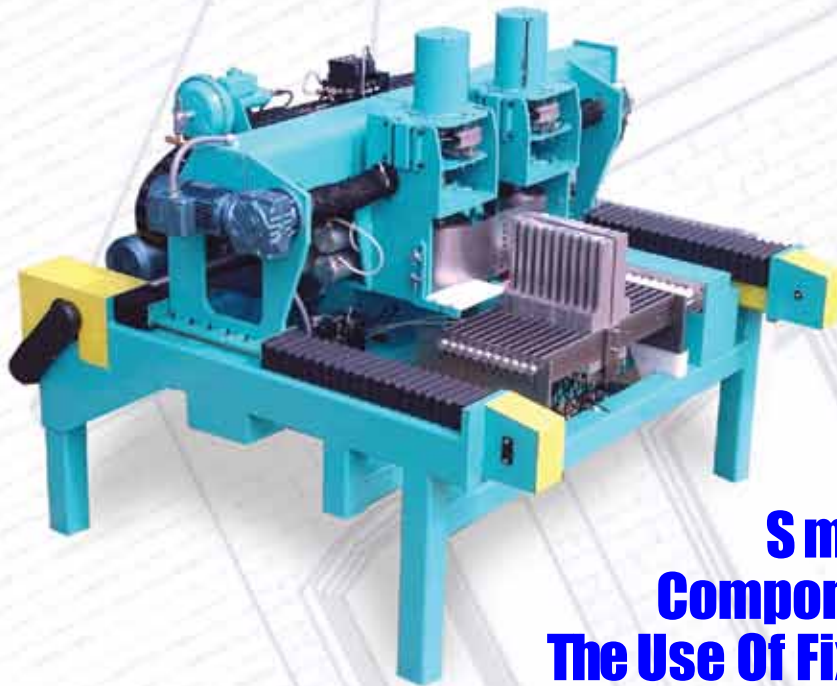


PT-6MM VENEER FORMER

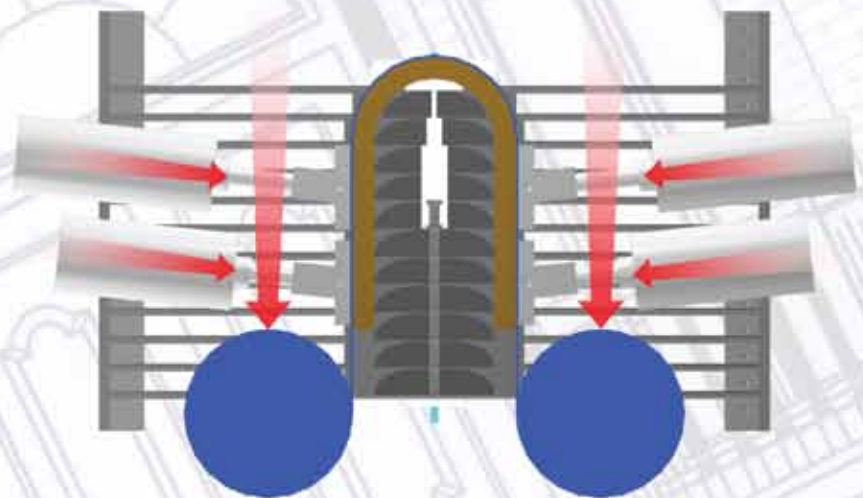


Forms Small Components Without The Use Of Fixtures

Pro-Tech veneer formers are the modern way to fabricate curved laminates such as arched headers and radiused moldings for windows and doors. Utilizing our patented technology we eliminate the traditional method of building and storing wooden forms.

The PT-6MM Veneer Former is a computer controlled machine capable of automatic setup and operation. The PT-6MM is capable of forming a wide array of geometrical shapes including circular, elliptical, arch segment and more. It's small compact size and minimum diameter capability of 6" makes the PT6-MM ideal for small components such as grill work.

Operation of the machine is simple and straightforward. The operator console consists of a heavy-duty rack mount enclosure with a LCD touch screen monitor. The operator geometrically defines and enters the pattern to be formed. The time to enter a part is a matter of 1 to 2 minutes. Alternatively the data entry can be done in the office and brought to the machine via floppy disk or network interface. The operator now pushes a setup button and the machine goes to work.



Lamination pressure is formed by capturing the component between the formarms and a stainless steel tension band. Pneumatic cylinders are used along the straight leg sections of the component

PT-6MM VENEER FORMER

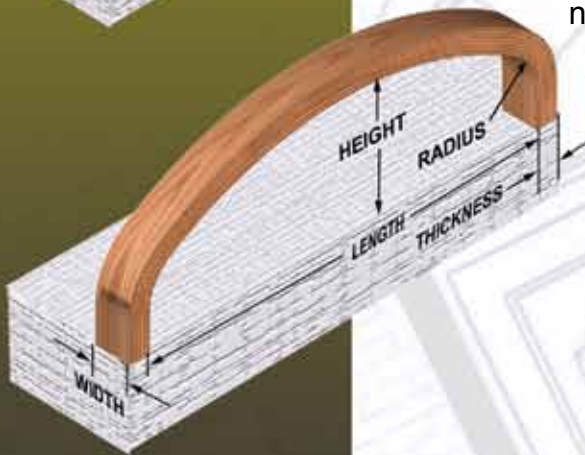
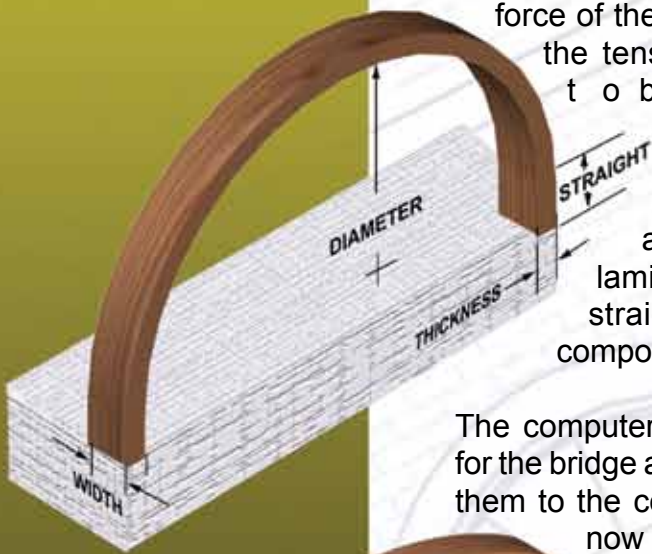
The inner surface of the part to be formed is defined on the machine by a set of 22 aluminum form arms. The computer calculates the exact location for each of the form arms based upon the part's entered geometry and locates the form-arms in the correct position with 11 high precision stepper motors. Once the form arms are positioned they are locked in place with hydraulics. This patented feature forms an interlocked frame structure capable of withstanding the high laminating forces exerted by the bridge.

The laminating force is applied to the part by a stainless steel tension band attached to 2 carriages suspended from a movable bridge. A 3 hp gear reduction motor that generates 7,700 Lbs of force powers the bridge. By applying variable hydraulic brake pressure to the carriage drums the force of the bridge is transferred to the tension band and the part to be laminated. In addition to the stainless steel tension band a series of 8 pneumatic cylinders are used to provide laminating pressure for the straight leg sections of the component.

The computer calculates the location for the bridge and carriages and moves them to the correct location. Setup is now complete and typically takes 1½ minutes.

The component is then loaded into the machine and the automatic machine cycle forms the component against the form-arms. The RF Generator cures the adhesive in as little as 3 minutes, depending on the parts dimension and adhesive used.

MACHINE SPECIFICATIONS		PT-6MM
HEIGHT	MAXIMUM	12"
LENGTH	MAXIMUM	24"
WIDTH	MAXIMUM	8"
THICKNESS	MAXIMUM	4"
STRAIGHT	MAXIMUM	9"
DIAMETER	MINIMUM	6"
	MAXIMUM	24"
RADIUS	MINIMUM	2"
	MAXIMUM	80"
HEATING OPTIONS		RADIO FREQUENCY
APPROXIMATE CYCLES PER HOUR WITH HEATING OPTION		12
MACHINE WEIGHT WITH HEAT OPTION		7,500 LB



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