

## Veneer Systems Inc.

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#### Shipping

Shipments within the USA and all other countries except Canada are shipped FOB Buffalo, NY. Canadian shipments are shipped FOB Fort Erie, Ontario, are invoiced in Canadian dollars, and are assessed a \$17.50 CAD brokerage fee per order, regardless of order value. We accept Master Card, Visa and American Express.

#### Consultation

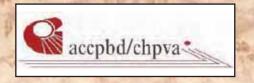
Each client has specific objectives for their veneer department; higher quality, increased yield, higher production, labor savings or lowering costs. Our equipment recommendations are presented after we have a thorough understanding of what you are making, how you are making it and what your goals are. For each veneering process we have multiple options depending on your situation.

#### **Installation and Training**

Our installation team consists of people who know more than just the machine, they know veneer. It is the transfer of that knowledge that leads to more than just a successful installation, it becomes a change in the fundamental processes of your veneer department.

#### Spare Parts for Veneering Equipment

We stock a wide variety of parts for Ruckle, Haug, Ompec, Kuper, Casati, Hofer and many other manufacturers; AFN, AFE, FZS crossfeeds and guillotines with glue applicators. We can supply retrofit digital readouts, NC controls, laser lines, replacement platens and safety curtains for your veneer machinery.



#### **Jointing**



Veneer Saw



Miracle Veneer Trimmer



Veneer Saw



Guillotine

## **Splicing**



Veneer Tape



Hand Held Zig Zag



Table Top Zig Zag



Solid Glue Line

#### Gluing and Pressing



**Hand Glue Applicator** 



Glue Spreader



Vacuum Pressing



**Hot Pressing** 

#### **Trade Shows**

We exhibit at the following woodworking shows. We invite you to stop by for some hands on veneering. Visit our website www.veneersystems.com for booth numbers, dates and times.



Orlando, FL

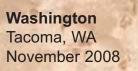
December 2009



Connecticut Hartford, CT May 2008

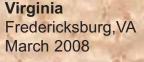
May 2009

Ligna



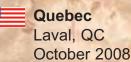
Hanover, Germany





Nevada Las Vegas, NV July 2009

New Jersey Trenton, NJ April 2009





## The Library

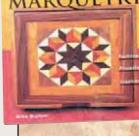
#### Simple Marquetry

**Table of Contents** 

Marquetry, How to

- -Wood veneer
- -Cutting and taping
- -Substrates
- -Adhesives
- -Methods of bonding
- -Finishing

Marquetry gallery Marquetry projects Project patterns





#### HPVA Veneer Species Guide

A guide to the commercially available veneer species with color plates of each species. Common names, Latin names, source, color, pattern and characteristics are given for each species.

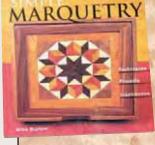
#### A Complete Guide to Hardwood Plywood and Face Veneer

#### **Table of Contents**

Variations in Hardwood Plywood Face Appearance Veneer Manufacturing Process Types of Matching Grades and the Product Standard Substrates Hardwood Plywood Manufacturing

**Process** 

Meeting Customer Expectations Trouble Shooting Common **Problems** 



#### Veneering - A Handbook

#### **Table of Contents**

Materials Tools and Equipment

Preparing veneers

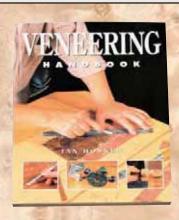
Laying veneers

Cross banding

Book matching and quartering

Parquetry

Finishing and polishing



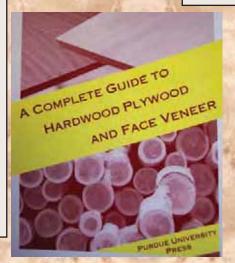
#### World Woods in Color

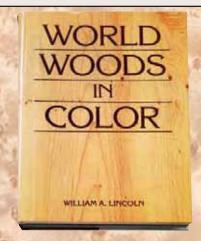
#### **Table of Contents**

Alphabetical list of woods with images Examples of exotic grains and burls Table of uses

Indexes of

- -standard names
- -vernacular, trade & other names
- -botanical names
- -family names





## Multimedia

Working in a Vacuum - for those comfortable with veneering basics who want to learn advanced techniques, this video explores curved and shaped work. This video covers: constructing curved forms, creating curved panels, veneering a cylinder and bull nose shelf using two step gluing techniques, applying veneer to moldings, laminating an arched jam and spiral staircase stringer - as well as a section on pump and bag maintenance. If you want to maximize vacuum's potential in your shop "Working in a Vacuum" will advance your veneering skill. Available on VHS and DVD Made in USA



Working with Veneer focuses on the basic skills of veneering. From raw veneer to a completed 4 way matched walnut burl table top. Topics include: tools and jigs, flattening buckled veneer, matching & sequencing, different types of glues, jointing, taping and gluing techniques. If you've wanted to try your hand at veneering but lack the technical knowledge to try, this video will give you the confidence to move forward and make something beautiful. Available on VHS and DVD Made in USA





Marquetry Vol. 2 - a 133 minute video. A continuation of Decorative Veneering this is a project oriented study, complete with instructions for creating a 16 piece radial match and a floral marquetry panel from start to finish. It also covers the history of marquetry, new hand and machining techniques, marquetry design, sand shading, time saving tips, trouble shooting solutions, edging details as well as information on supplies and tools. Comes with a companion booklet for quick reference. Available on VHS and DVD. Made in USA

#### From the Bark to the Heart

- How do you make veneer and plywood? This 20 minute educational presentation by the Canadian Hardwood Plywood Veneer Association shows you how.

An excellent tool for employees and clients on wood veneer manufacturing and secondary processing. Available on DVD.

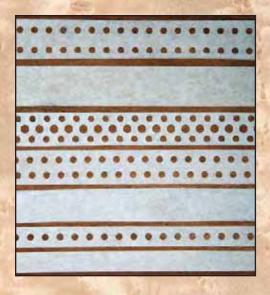
Made in Canada



Decorative Veneering - an 80 minute video. Learn to sharpen your tools properly, cut your own inlay, recess bandings into a face, make your own inlay strips, develop the look of a four way match, adhesive selection and finishing.

The companion booklet includes additional information on design theory, detailed instructions, illustrations, and an extensive glossary, resource list. Available on VHS and DVD. Made in USA

## Veneer Tape







#### Veneer Tape

Our veneer tape is made with acid free kraft paper or cellulose. Vegetable based adhesives provide a superb bond and easy removal.

#### Weights and Styles

34 gram white, 40 gram brown and white Plain (no hole), 1, 2, 3 hole perforations

#### Widths Roll Lengths Styles 3/8, 1/2, 5/8, 3/4, 1 inch 650 and 1300 feet

10, 12, 15, 20, 25 mm 200 and 400 meter

We stock over 70 different types of tape.

#### Should I use plain or perforated veneer tape?

Plain tape is more easily removed as it does not tear at the perforations. Three hole, with the larger center perforation, allows you to see the splice line and be sure the joint is tight yet takes a little more effort to remove.

#### How do I remove veneer tape?

Use a damp sponge or cloth to lightly moisten the tape and then scrape off as much as possible before sanding off the balance.

After I remove the tape I can see where it was? Several species are subject to tone changes with exposure to UV light. Keep the faces covered or upside down. You may have hard water and mineral deposits that can be seen. If you suspect this, try using distilled water. Excess water can cause grain deformation.

#### Stik Gum

In high humidity conditions or cold environments Stik gum increases the "stickiness" of veneer tape...

Add one package to five gallons of water and use in your veneer tape applicators and dispensers.

## Tape Dispensers

## Bench Top Pull & Tear

Bench Top Pull & Tear - Does not scrape off the adhesive as with brush type applicators. You can have several styles of veneer tape readily available for different applications. The cloth applicator roller applies a measured amount of water, ensuring a secure bond without saturating the tape or the veneer.

Item Description
Krolf 40 1-1/2 inch throat
Krolf 80 3 inch throat



## Hand Held Taper

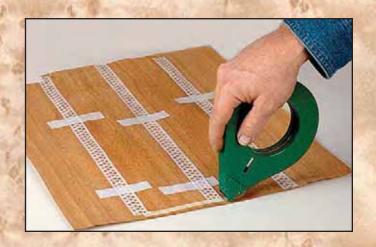
Hand Held Taper - Excellent for larger panel tape layups. Also used behind cross feed splicers for quick joint repair and end taping. A moist sponge is located in the handle. You apply pressure with your fingers as you are rolling along the joint. Max. tape size - 1in W x 650 ft L

Item: FUA-1



## The Grip

The Grip - A masking tape applicator for quick and easy end taping. The applicator has a rubber pressure roller to ensure a good bond of tape to veneer. Use with masking tape product number HR1255



## Adhesives

MPA II - A precatalyzed PVA cross link emulsion best suited for RF and hot press veneering. Provides excellent bonds and high shear strength on hardwoods.

Exceeds Type II water resistance criteria (ANSI/HPMA 1983). Available in 1 gallon jugs and 5 gallon pails.



FSV / Flexible Sheet Veneer - is a fast tack PVA formulated for paper backed veneers. Its bond is formed by using a veneer hammer or veneer scraper for pressure. Perfect where fast tack and quick set with minimum pressure is required. Available in 1 gallon jugs and 5 gallon pails.

MPA Veneer - is a PVA with a moderate set speed and good heat resistance. The high solid content provides for excellent pore and check filling, which minimizes bleed through.

Meets ASTM D 4317-86 Type III Specification Available in 1 gallon jugs and 5 gallon pails



MPA Fast - A PVA with a fast set time making it ideal for doweling and general assembly where a short assembly time is required. Available in 1 gallon jugs and 5 gallon pails.



MPA Slow - A PVA with a slow set speed, very high heat resistance and long open time. Formulated for bonding when a slower set time and long assembly time is desired. Available in 1 gallon jugs and 5 gallon pails

IPA Veneer	MPA Slow	MPA Fast	FSV	MPAII
000	4500	5000	8000	4000
- 7 mils	4 - 7 mils	6-9 mils	4 - 7 mils	6 - 9 mils
·10	15 - 45	5	4	5
5 - 47	43 - 45	56	52 - 58	50
5	45	53	55	50
+ months	6+ months	6+ months	6 months	6 months
an	Yellow	White (dries clear)	Lt. Pink	White
5	00 - 7 mils 10 - 47 - months	4500 7 mils 4 - 7 mils 10 15 - 45 - 47 43 - 45 45 45 months 6+ months	00       4500       5000         - 7 mils       4 - 7 mils       6-9 mils         10       15 - 45       5         - 47       43 - 45       56         45       53         - months       6+ months       6+ months	00       4500       5000       8000         -7 mils       4 - 7 mils       6-9 mils       4 - 7 mils         10       15 - 45       5       4         - 47       43 - 45       56       52 - 58         5       45       53       55         6 months       6 months       6 months

PPR - Urea Resin adhesive is a precatalyzed powder. Glue line characteristics include high strength, minimal to no spring back, thermoset, Type II water resistance and excellent heat resistance. PPR may be hot pressed, cold pressed or RF cured.

The mix ratio is 100 parts water to 50% to 65% powder. PPR has an approximate pot life of four hours at 70 degrees fahrenheit. Ideal moisture content for the veneer is 8% to 10%. Available in 1 gallon pails, 5 gallon pails and drums.



Unibond 800 resin and catalyst C800 hardener create a modified urea formaldehyde adhesive. The distinctive properties include a rigid glue line, excellent gap filling, high water resistance, check resistant bond, mixes easily, adjustable set time and low shrinkage.

Unibond 800 blends easily with the C800. The catalysts are available in three tones light, medium and dark. Available in one gallon jugs





Resorcinol is a two part liquid resin which provides waterproof bonds down to -40 degrees F. Pot life is 3 hours at 75 degrees F. Available in a one gallon kit.







RPA - Reactive Polyurethane Adhesive is a one part, moisture curing adhesive that is highly resistant to water and heat. Available in 16 oz. bottles and 1 gallon jugs.

Melamine is a vinyl acrylic emulsion with a fast set speed and low minimum use temperature with excellent bonding characteristics to disimiliar substrates. Available in 1 gallon jugs and 5 gallon pails.

	PPR	Unibond 800	RPA	Melamine	Resorcinol
Viscocity CPS				3700	300
Veneer spread	5 - 7 mils	5 - 7 mils		5 - 7 mils	n/a
Open time Minutes	40	30 min @ 70F		10	various
Percent Solids		n/a		55	n/a
Min. use temp F	70	65	40	35	70
Storage at 70F	1 Year	5 months	1 Year	6+ months	1 year
Color	Tan	Catalyst specific	Amber	White	Purple / Brown

## **Veneer Treatments**

Veneer Softener - treat crotch or burl to minimize / eliminate checking.

- Mix the softener with an equal amount of water before use.
- Apply the solution by dipping, brushing or spraying. Be sure the veneer is completely covered with the solution.
- Allow veneer to stand until the surface appears dry, approx. 20 minutes
- After they appear dry, stack overnight under pressure for use the next day

The effect lasts about 24 to 48 hours so it is not advisable to prepare stock well in advance of use. One year shelf life at 70 degrees F / 21C, cleans up with warm water. Available in 1 gallon jugs, 5 gallon pails and 55 gallon drums.

Glu Siz - a resin emulsion formulated to seal the pores of wood for subsequent gluing and finishing operations. It retards moisture movement in and out of wood and composite wood materials. It sands well and seals end grain prior to gluing or finishing. One year shelf life at 70 degrees F / 21C.

Glu Siz may be used full strength as received or diluted up to a 1:1 ratio of water by weight. Maximum effect is achieved with lower water dilution. Available in 1 gallon jugs and 5 gallon pails.

## Measurement



# Cordix Thickness Gauge Features a locking pressure bar, adjustable lower pad and galvanized components. Calibrations 1/10mm, Range 0 to 1 inch Throat 1.25 inches, Pad - 3/4 inch diameter





Moisture Meter - The MiniLigno-E is the most popular moisture meter on the market. Perfect for checking the MC of veneer, as well as lumber, fiberboard and other materials.

## Mil Thickness Gauge A two inch by three inch gauge for determining proper glue density.

Graduations: 1 mil to 12 mil by 1's 14 mil to 30 mil by 2's 35 mil to 80 mil by 5's

## Glue Application

**Pfohl** Glue Spreaders - provide a consistent coating of adhesive on flat and curved surfaces. Ideal for core coating, block board and bent laminations. Adhesive roll out is regulated by opening and closing the dam with no overflow. Sponge rollers are for PVA's and Gray rollers are for PVA's and Ureas. Specify roller type.



Item Width

Pfohl 45 1 1/2 inch / 45mm
Pfohl 75 3 inch / 75mm
Pfohl 150 6 inch / 150mm



**Pizzi** Glue Dispenser - PVA glue is stored in the tank under pressure. The operator squeezes the handle to allow the flow of glue. Glue is released through the nozzle on demand, providing an even, consistent and continuous adhesive coating to the workpiece. Easy cleanup of nozzles with faucet adapter.

#### Package includes:

Tank, 12 foot hose, universal nozzle and faucet adapter

Item	Capacity	Ports	Material
	2 Gallon	Two	Brass & Steel
9012	3 Gallon	Three	Stainless steel
9021	5 Gallon	Three	Stainless steel

#### **Additional Nozzles**

Biscuits, Finger joint, Mortise and Tenon, Five different brushes, Double and triple dowel and many others.









## **Hand Tools**



#### **Ulmia** Hand Veneer Jointer

Features a European Beech handle, stable 2mm thick jointing blade and steel sole plate. Make two or three passes along a straight edge to make crisp, clean joint lines with no tear out.

VSI 744 Complete tool VSI 782 Jointing blade VSI 780 Inlay blades





#### Kunz Veneer Hammer

The traditional tool for hammer veneering with hide or FSV glue.
VSI 799





#### **Ulmia** Edge Trimmer

The blade has an angle of cut which eases into the veneer and is guided along the substrate by the fence.
The handle is European Beech VSI 740 Complete tool
VSI 784 Spare blade

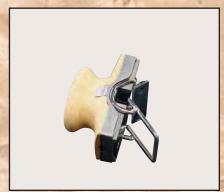




#### Radzi Edge Trimmer

The blade is aligned to the core by placing the guide against the substrate. The tool is drawn along the veneer to trim it flush to core. The alignment guide can be adjusted for trimming the veneer against a beveled substrate (as shown on right)

VSI 747 Complete tool VSI 749 Spare blade



Veneer Saw
The traditional tool for jointing veneer
VSI 727 Complete tool
VSI 731 Spare blade



#### **VSI** Veneer Defect Punches

The irregular shape of the punch aids in camoflaging the repair section. The punch cuts on the inside with a spring loaded knockout and solid hardwood or brass handle. Heat treated to hold cutting edge longer.

Sizes: Irregular 13, 18, 20, 25, 32, 45 and 62mm

Made in USA



Straight Edge - A 26" brass flat and plywood straight edge for straight line cutting. VSI Straight Edge

Tongs - For precision handling of veneer and inlay. The tips are precision ground to easily scoop, pick up or handle small objects.
VSI V-Tongs

VSI V-Tongs Made in USA



#### Veneer Tape Scraper

This specially sharpened and honed flexible putty knife facilitates the clean and efficient removal of gum tape after the face has been pressed onto core.

VSI 712 Made in USA



## **Guillotine Supplies**

#### **Knives**

For all guillotines. We are able to provide knives for all makes and models of guillotine. Knives are manufactured to your specifications. Provide us with a drawing of the knife to receive a custom quote. Include thickness, height, length, bolt hole pattern and grinding angle specifications.

#### **Cutting Sticks**

For all guillotines. These durable, self healing sticks are designed to extend the life of you knife. All cutting sticks are ordered based on your size specifications. Provide us with the thickness, depth and length of your stick for a custom quote.

## Zig Zag Supplies

#### Glue Thread

For all makes and models of zig zag splicers, end taping machines and composers.

Hand Helds Standard Heat Air Heat 910 and 911 921 H11

#### **Trenmittel**

Release agent for all makes and models of zig zag splicer, 5 liters.

## **Hot Press Supplies**

#### Mylar

Temperature resistant, 10 mil Stock widths: 65 inch Special Order Master Rolls 525 ft long x Specified width

#### **Press Pads**

Press pads compensate for irregular pressing surfaces caused by uneven veneer thickness or poor press platen tolerance. The pads increase the coverage density thereby improving the bond. Also used as a cure cushion when pressing laminates.

#### Release Agent

Release agents available for PVA and UF glues. Coat your platens to prevent glue build up. Sizes: 1 Liter, 1 Gallon, 5 Gallon and Drums

#### **Cutting Plates**

Rigid plastic plates and polyurethane mats are available for all makes and models of double knife guillotines. All plates are ordered to your specification.

#### **Double Sided Tape**

Wide format, high strength double sided tape for securing your double knife cutting plates.



## **Splicing Supplies**

#### Inline Splicer Glue

Precatalyzed urea resin with modifiers for solid glue line splicers with inline glue applicators. This adhesive is designed for use with all inline solid glue line splicers. Light tan 45lb bag

#### Spray on / Roll On Splicer Glues

Urea Formaldehyde and PVA based splicing glues. UF in a tan powder with available tinting agent for lightening the glue line.

PVA's dry clear.

Light tan color. 1 Gallon, 5 Gallon and Drums

#### Release Agent

Splicers / Edge banders

Release agents available for PVA and UF glues. Coat your heater bars to reduce glue buildup.

Sizes: 1 Liter, 1 Gallon, 5 Gallon and Drums



Bessey- K Body Clamps Superior strength, heavy duty components. Sustains clamping pressure throughout pad surface. Durable plastic clamping pads, spindle, steel rail, and internal parts are all replaceable. Clamping area of 3 1/2" x 1 3/4". Clamping pressure of up to 1000 lbs.

Sizes: 12, 24, 31, 40, 50, 60, 82 and 98"



# Bessey Edge Clamps Heavy-duty galvanized steel threaded spindle, aluminum die-cast body and pivoting pads provide for a wide variety of edge clamping needs. Clamping pressure up to 500

Material thickness range: EKT 55 - 1/4" to 2-1/8"

#### **Famowood**

Water based wood filler - No mixing, spreads smoothly into large holes, cracks and defects in unfinished wood. Fast dry time, ready to sand, saw, stain, nail, paint or plane within minutes without cracking or crumbling.

High solid content takes stains like real wood. Stronger than the wood it replaces with little to no shrinkage. Available in 1/4 pints, pints, quarts, gallons and 5 gallons

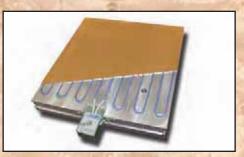
Colors: Birch, Walnut, Oak, Red Oak, Golden Oak, White Pine, Cherry / Dark Mahogany and Fir / Maple



#### **Busse** Heater Bars

Recommended for bonding veneer and plastic edgebands. Manufactured from aluminium profiles, anodized silver, constant surface temperature. They have a cross section of 2.5 x 1.8 inches and heat on all four sides.

Standard lengths are 43, 63, 82, 102, 122, 141 and 161 inches, maximum temperature 392F 200C., 220 single phase electric.



#### **Busse** Custom Heating Platens

Ever thought about making your own hot press? Not every woodworker needs a 4x8 hot press. We can provide you with electrically heated platens as small as 12 inches by 12 inches and a temperature controller.

Provide us with your desired platen dimensions, and number of platens and we will provide you with the heating platen(s) and a temperature controller. You source the press frame and pressure system and you'll have a press designed and made to your specifications.

## **Jointing**

#### Miracle Veneer Trimmer

Turn an existing shop tool into a precision veneer jointer.



#### **MVT**

A pressure system of opposing wedges clamps the veneer firmly under pressure. A tool steel bar which fits exactly in the slot or your table gives a precise cut. A 90 degree guide allows for precision cross cuts of veneers up to 20" wide. Available in 48" and 96" lengths for a sliding table saw, table saw or circular saw. Threaded inserts premounted for future option bolt ins.

Made in USA



**Hofer** Veneer and Panel Saw - FSP For cutting veneers, core, wood, lumber, plexiglass and light metals.



#### **Precision Guidance**

The saw and milling units travel on linear guide rails. The linear guide rails ensure zero tilt and cutting accuracy.

#### Saw / Milling Head Adjustment

The milling unit is adjusted pneumatically on linear guide rails. Saw blade axis adjustment. Both units can be used independently or simultaneously.

#### Rear Support Table

A hand wheel provides for fine adjustments of the fence and the fence can be pneumatically locked into position for repeat cuts

Standard width range is .6" to 24.4" (15mm to 620mm). Custom fence depths are available. Another option pneumatically lowers the fence fingers into the table which allows clear pass of materials from the back of the machine.

#### Hofer Veneer and Panel Saw - FSP Automatic

For cutting veneers, wood, lumber, core, plexiglass and light metals.



Standard Equipment 180mm saw blade 4 x 1.2 x 2" Milling cutter Pneumatic saw blade adjustment Automatic cutting tool feed Rear support table

90 degree reference **Dust extraction channel** Tool kit Five operating modes Gear rack balance

The console controls

- Cutting size
- Five operating modes
- Cutting speed adjustment
- Power switches
- Emergency stop

#### Casati SNC Hydraulic Veneer Guillotine Model TSO

Ideal for custom manufacturers, cabinet shops and mid volume veneer operations.

Single 5.5 HP hydraulic motor Swing arm knife motion Gear rack torsion bar Full automatic cut cycle Cross cut and miter cut guide Motor driven rear register Full safety systems Sizes: 104 and 122"



## Casati SNC Hydraulic Veneer **Guillotine Model TOP**

Industrial production manufacturers

Independent hydraulic motors Swing arm knife motion Gear rack torsion bar Automatic cut cycle Cross cut and miter cut guide Motor driven rear feed Full safety systems Sizes: 104, 126, 141, 157, 177"



## **Splicing**

## Hand Held Zig Zag



## Table Top Zig Zag



## Glue Thread Repair Units



#### VSI ZZ - Hand Held Splicer

Tired of spending your time applying & removing veneer tape? Use our hand held splicer to get the job done. Take your layup from the press and go immediately to finish sanding. The glue thread gets buried in the glue line against the core material.

This hand held splicer is used to splice straight and free hand joints. Can also be used to reinforce end grain. You can start and stop the splice at any time. The front drive wheels are slightly knurled and angled to pull the joint together nice & tight just prior to the thread application.

Ideal for custom shops, one off piece work, prototype departments and more. The light, compact design weighs only 4 pounds, heats up in 3 or 4 minutes and you are ready to splice. No threaders or nozzles are required. Uses H11 glue thread.

Made in USA

#### VSI Zig Zag 27

Veneer is placed on the table face up, against the alignment guide and forward against the infeed rollers. By pressing the foot pedal, the veneer is fed forward and glue thread is applied, it passes through compression rollers and the process is complete. Uses 911 and 910 glue thread.

#### Features / Benefits

Eliminates the time intensive steps of taping and tape removal. Standard heat system, no threaders, nozzles or heater tubes are required. Automatic independent compensation for veneer thickness variations.

#### Specifications

Throat depth 27.5 inches , Feed Speed 20 feet per minute, thickness range 1/10 to 1/50 , 220 single phase

Made in USA

## **Kuper** KHL-1 and KHL-2 Hand Held Repair Units

Straight line glue thread applicators for repair and end taping.

KHL-1 single spool unit KHL-2 double spool unit

#### Furniertechnik LZM - LA

Solid Glue Line Splicer with inline glue applicator

The feed speed and glue application system are synchronized through the use of a single frequency inverter. The results are a near invisible splice line, less sanding and less adhesive usage.

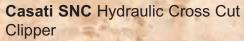
#### Advantages:

- Reduces labor cost
- Improves quality control
- Eliminates the spray on station

Throat Sizes: 39, 48, 55 inches

#### **Specifications**

Minimum veneer width 1 1/2 inches
Minimum veneer length 12 inches
Throat Depth - Customer specific
Temperature range up to 446°F / 230°C
Veneer thickness range 1/10 in to 1/64 inch
Controls: pressure, temperature & feed speed
Variable speed range 33 fpm to 131 fpm
Heating zone is 39 inches long
Compressed air required 84 psi, 1cfm
Dimensions 75"L x 7"W x 75"H



Model TSI

Heavy main frame
Movable control unit for easy positioning
Front and back work tables
Lexan guard allows view and protection
Cutting edge light

## Casati SNC Veneer Waste Chipper Model TSM-800

Designed to chop veneer waste into small chips to reduce veneer waste volume. One cross cut knife with ten knives set perpendicular to it. Easy jam cleanup by reversing the feed belt. Capacity 25" x 3.5" cutting with 56 knife strokes/min. Feed speed 2 - 11 fpm.







## Vacuum Pressing



The Professional

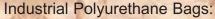
1/3 HP, 5 CFM extraction rate



Hi - Flo Industrial
3/4 HP, 10 CFM extraction rate

#### Common Features

Self-adjusting oil-less rotary vane vacuum pump with thermal overload protection. Maximum vacuum of 27" HG / automatic shutoff at 25" HG (1774 lbs. per sq. foot). Easy access, see-through filter jar for dust removal, quick disconnect between pump and bag, adjustable micro-pressure switch maintains consistent vacuum level, vacuum gauge and lighted on/off switch for monitoring, 110 volt standard, 220 single phase available via special order. Manual with instructions on pressing veneers, curved work, and adhesives. One-year limited warranty.



All poly bags have heat-welded seams and clampless, airtight vacuum hose attachments. Bags for the Hi-Flo model have two extraction ports.

Sizes: (Sizes represent actual pressing capacity.)
30 mil industrial poly: 49" x 49", 49" x 97," 49" x 121,"
49" x 145", 61" x 121", and 61" x 145"
Made in USA

The FlipTop System - Complete vacuum press kit with instructions on assembly and making your own table or with RTA base assembly

#### Features:

1 1/4" anodized aluminum extrusion for a light but strong frame, assembled with special connectors, tough 30 mil polyurethane membrane with six inch pleats. Barbed insert strip locks membrane into the extrusion for a solid connection, multi-ribbed neoprene gasket for airtight seal, pneumatic cylinders opens frame for convenient loading and unloading (base and frame kit). Gas springs supplied with flip top frame kit.. Comprehensive step by step instruction manual for easy assembly.

Sizes: 49" x 97", 49" x 121", 61" x 97" and 61" x 121" Made in USA



## **Hot Pressing**



#### Hofer Four Post Hot Press

Twelve minutes to 194 degrees F Economy heat mode to minimize electric demand Heavy duty gear rack balance Maintenance free submersible pump

Maintenance free submersible pump
Automatic or manual opening selection
Automatic low to high pressure

#### **Heating Mediums**

Electric, Hot Water, Thermal Oil, Steam

#### Hydraulics

Teflon bronze cylinder guides 3.5 inch diameter cylinders, 16 inch stroke

#### Safety

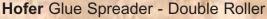
Limit switches and perimeter safety line



#### Hofer Glue Spreader - Knife Coater

There is one top and one lower roller. The mil thickness of your adhesive is determined by the distance between the edge of the glue reservoir and the applicator roller.

Stock Sizes: 51 and 63 inches



There is an applicator roller and doctor roller on the top and on the bottom. The mil thickness of the adhesive is determined by the gap setting between the rollers.

Standard Sizes: 51 and 63 inches



#### **Hofer** Minimum Contact Table

Adjustable working height
Working height 28 to 38 inches
Stainless steel disc rollers
Disc diameter 4.6 inches
Galvanized water tank
On center distance 4 inch / staggered

## Case Clamps



#### Hofer Koptronik Case Clamp

#### **Features**

Standard working size 98.5in x 55in x 27.5in, Intercombing pressure walls, joystick control for eight movements, independent, pneumatically adjustable wall pressure.

#### **Options**

Custom working size, front layout tables, discharge rollerways with roller on all sides, builtin rollerway with air jets, combination discharge rollerway and uprighting station

#### **Hofer** KP 1500 Case Clamp Features

Standard working size 98.5in x 55in x 27.5in, Intercombing pressure walls, joystick control for eight movements, independent adjustable wall pressure.

#### **Manual Operation**

The joystick control's single or multi axis closing at the operators discretion.

#### Koptronik Case Clamp Operation Modes

#### Manual Mode

Joystick to control single or multi axis closing at the operators discretion

#### Automatic Modes Equal pressure

The beams both close to .5 inches from the case. Then both beams close simultaneously and apply equal pressure.

#### **Automatic Squaring**

The horizontal beam closes to .5 inches from the case. The vertical beam closes all the way to square up the cases against the back stop. The vertical beam then retracts to .5 inches from the case and then both beams close simultaneously with equal pressure.

#### **Automatic Driving**

The vertical beam closes to .5 inches from the case. The horizontal beam closes and opens three times, providing the pressure to properly seat the joinery and obtain deep glue penetration. After the third opening, both beams close simultaneously.

## Flexer



#### Veneer Flexer / Tenderizer

A quality machine available in single head or double head configuration. Requires fewer operators, less floor space and the veneer is automatically flipped over.

After processing the paper backed veneer is supple and pliable. This provides high quality veneer for postforming and profile wrapping. The veneer can easily be wrapped around tight bends without breaking. Maximum veneer thickness: 2 mm

## Stroke Sanders



#### Stroke Sander BSM IIIR

Welded stress relieved steel construction
Diameter of belt drive roller 150 mm
Depth of throat on right side 900 x 300 mm
Speed of sanding belt 22m/sec
Dimensions of sanding pad 300 x 145 mm
Dimensions of sanding table 2500 x 800 mm
Dimensions of sanding belt 6400 x 150 mm
Table stroke 300 mm
Exhaust connection diameter 160 mm



#### Stroke Sander BSM II

Cast iron construction
Depth of throat on right side 1000 x 320 mm
Speed of sanding belt 22m/sec
Dimensions of sanding table 2500 x 1000 mm
Dimensions of sanding pad 300 x150 mm
Dimensions of sanding belt 6800 x 150 mm
Table stroke 320 mm
Exhaust connection diameter 180 mm

