

Veneering & Vacuum Pressing



Why Vacuum?

- Simple concept . . . remove the air and press or clamp with atmospheric pressure:
- Even pressure across the entire veneer surface, not in spots and radiate into the surrounding area
- 12" x 15" = 180 square inches
- 180 square inches x 15 PSI = 2,700 pounds of pressure
- Pressure Demo

4 Vacuum Uses in My Shop

- Vacuum chucking on the lathe
- Stabilizing soft or punky wood (Demo)
- Clamping wood (Demo)
- Veneer pressing

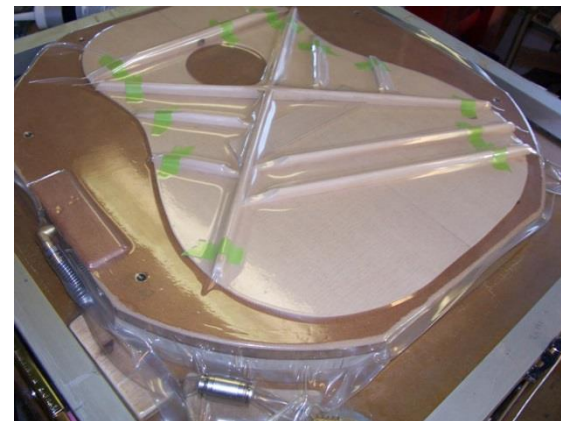
Mechanical Pressure Veneering:



Problems:

- Radiating, uneven pressure
- Glue open-time
- Cannot see your work
- One size DOES NOT fit all projects
- Doesn't work for curved surfaces
- Doesn't work for uneven surfaces (oyster veneer example)
- How much pressure (PSI) can this generate?

Veneering with a vacuum bag:



Veneering Basics

- Veneered furniture has bad reputation
- Sandwich veneers & substrate
- Always veneer both sides
- Tape edges to prevent slippage
- Veneer tape & cheap masking tape
- Wax paper
- Typical glues:
 - Yellow wood glue
 - Hide Glue
 - Titebond Veneer Glue
 - UniBond 800 (2 Part Formaldehyde based)
 - Watch for bleed-through . . may need sealer

Veneering Demo

- Samples
- Choose stable & workable substrate & test for bleed thru
- Veneer for side A & B
- Cut to oversized substrate size +
- Seams
- Using tape (masking & veneer tapes)
- Remove tape from B side (telegraphing)
- Gluing
- Prevent movement against substrate with tape
- Wax paper to prevent sticking to bag
- Apply pressure and seal bag
- Work out any bubbles
- Follow cure-time directions for the glue you have chosen

Design Example

- Double book-match example
- Sequential veneer slices
- Hinged mirror to select veneer orientation



Vacuum Bagging on a Budget

- Bag materials; 30 mil, vinyl, poly, etc.
- Platen
- Vacuum Pump
- Connectors

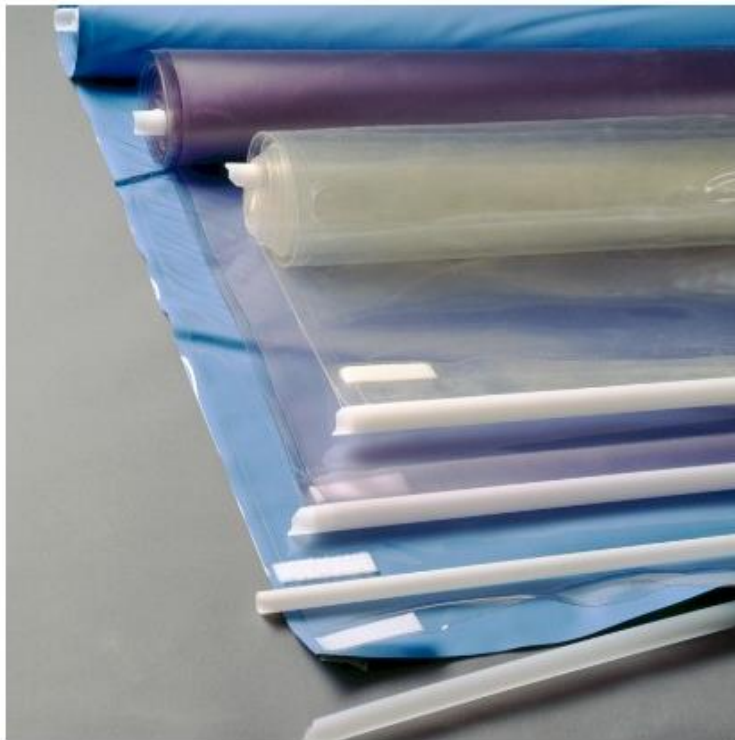
DIY Vacuum Bag Sources

Bag materials

Platen

Hose & connectors

Bag Closure



30 Mil Industrial Polyurethane VacuPress® Bags

\$189.00-\$736.00

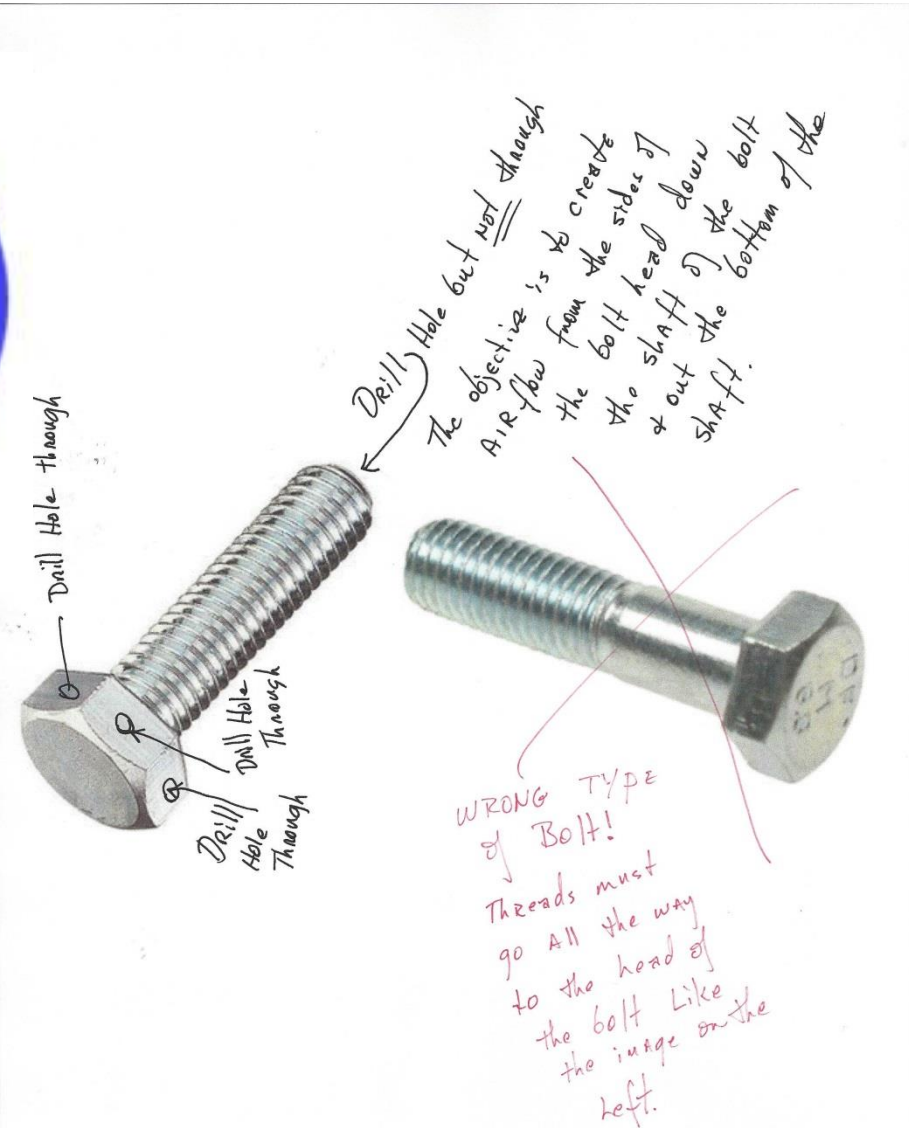
Custom Bags Available - Call for Quote

Actual Size	Pressing Capacity	Price	Add to Cart	
30in x 48in	24in x 36in 30 mil	\$189.00	<input type="text" value="0"/>	ADD TO CART
54in x 60in	49in X 49in 30 mil	\$255.00	<input type="text" value="0"/>	ADD TO CART
54in x 112in	49in X 97in 30 mil	\$470.00	<input type="text" value="0"/>	ADD TO CART
54in x 136in	49in X 121in 30 mil	\$536.00	<input type="text" value="0"/>	ADD TO CART
54in x 160in	49in X 145in 30 mil	\$615.00	<input type="text" value="0"/>	ADD TO CART
66in x 136in	61in X 121in 30 mil	\$635.00	<input type="text" value="0"/>	ADD TO CART
66in x 160in	61in X 145in 30 mil	\$736.00	<input type="text" value="0"/>	ADD TO CART
14in x 160in	8in x 145in 30 mil	\$213.00	<input type="text" value="0"/>	ADD TO CART
18in x 208in	12in x 192in 30 mil	\$308.00	<input type="text" value="0"/>	ADD TO CART
26in x 268in	20in x 252in 30 mil	\$520.00	<input type="text" value="0"/>	ADD TO CART

Making a Vacuum Bag

- Cut to desired size
- Cut, glue & clamp
- Drill evacuation holes in bolt
- Platen: cut, saw, drill
- Fortsner drill then drill through
- Assemble and attach hose, connector, etc.

Bag Closure & Air Evacuation Bolt



Flattening Veneer

- Relaxing wrinkled or curled veneers
- Relaxer: commercial or shop made (2/3 glycerin & 1/3 rubbing alcohol)
- Soak veneer
- Dry under pressure with un-printed paper
- Repeat with dry paper until flat

Contact info:

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