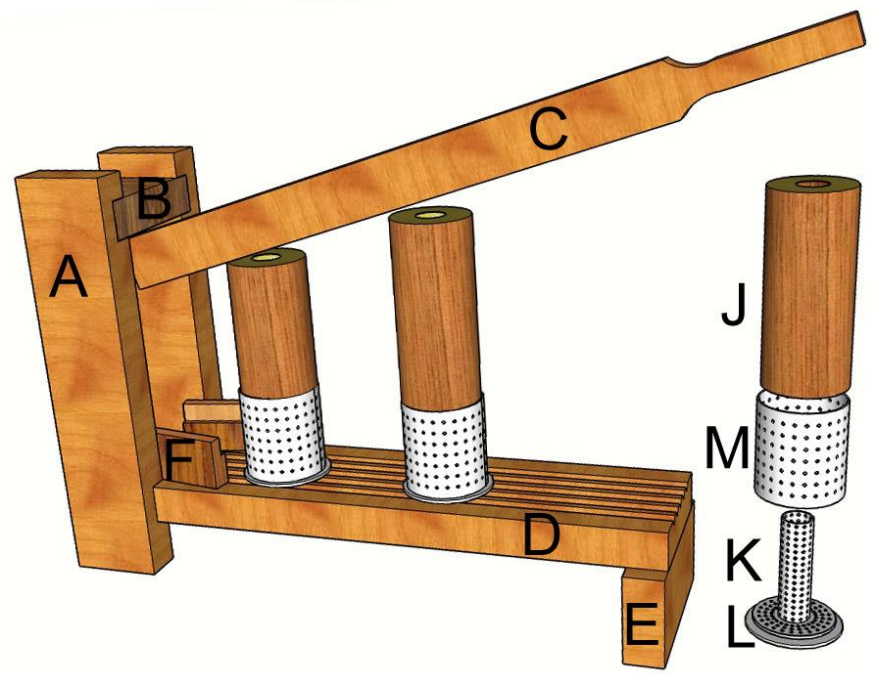
How To Make
A Single-Lever Small Biomass Press
(English and Metric)
Parts List, Notes & Drawings

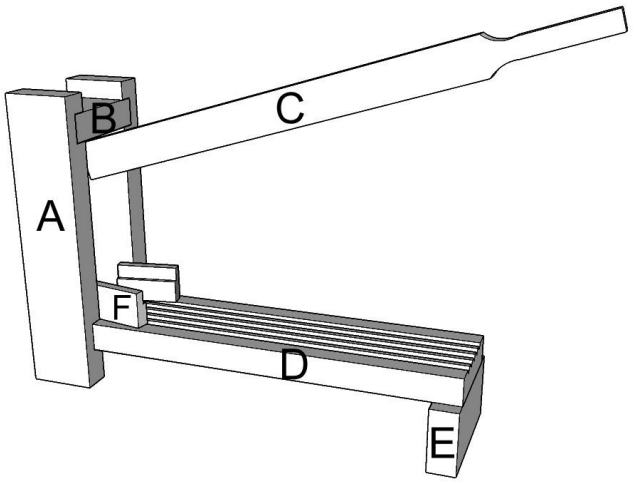


Notes:

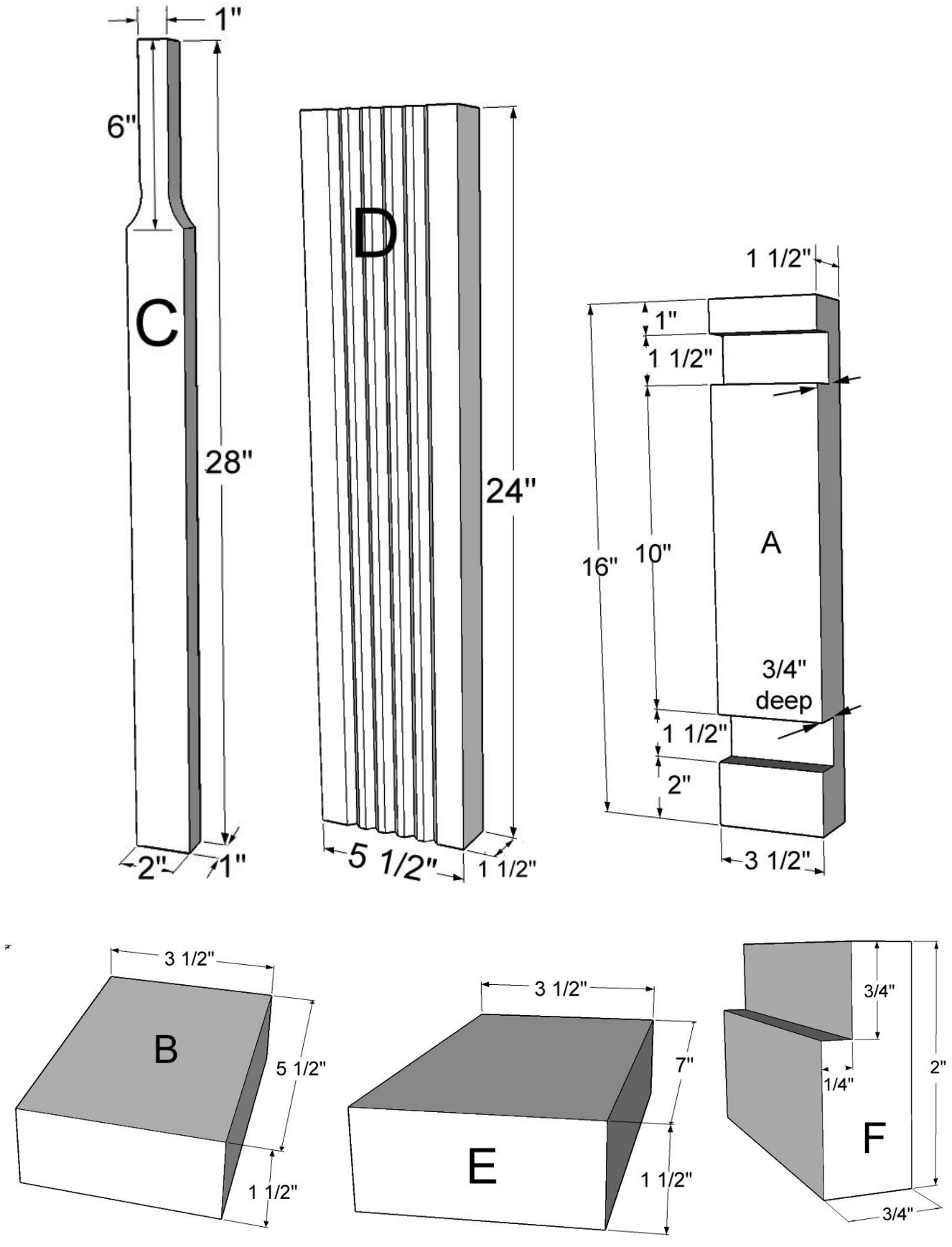
1. The press is designed to accommodate a biomass mold height of 3 ½" with either a 3" or 4" diameter. If you desire a mold height greater than 3 ½", increase the separation between part D and part B to accommodate the new mold height requirements. Also, increase the length of parts J, K & M appropriately.

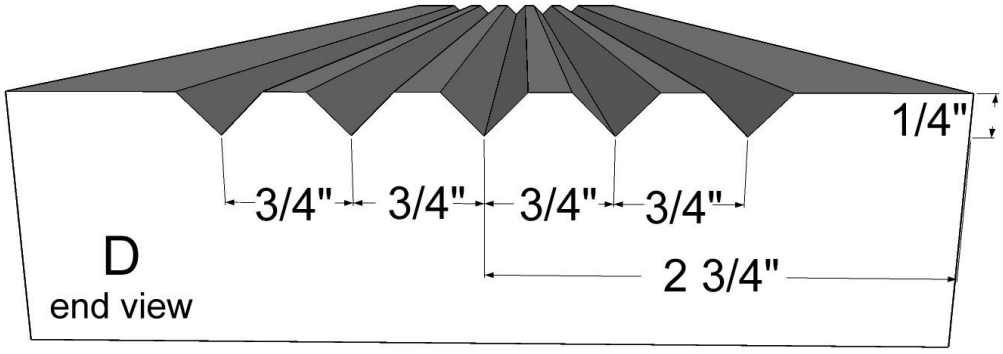
2. To minimize swelling of the plunger, Part J, caused by the absorption of moisture, coat with oil, grease, lard or any similar water repelling substance.

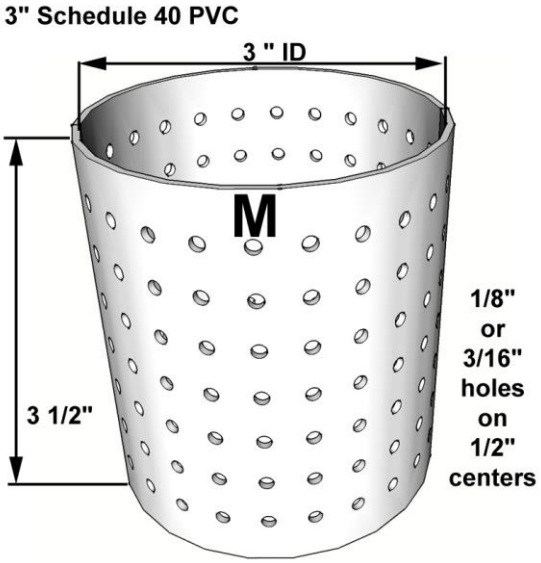
3. To capture wastewater you can tilt the press for drainage by lengthening the lower section of Part A, i.e. the section below the base plate D.

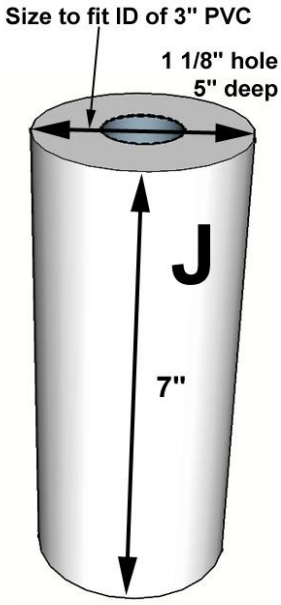


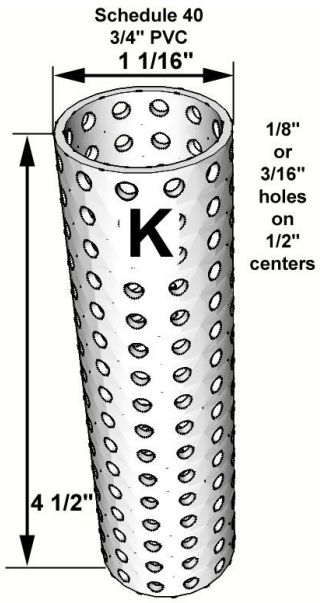
PART	PCS	DESCRIPTION
Stock	1	1 ½" x 3 ½" x 72"
Stock	1	1 ½" x 5 ½" x 24"
A	2	Vertical Support 1½" X 3½" X 16", channel = 1½" wide x 3/4" deep, 2" from bottom end of stock. Channel = 1½" wide x 3/4" deep, 1" from top end of stock.
B	1	Top Spacer 1½" X 3½" X 5 ½"
C	1	Pusher Lever 1" X 2" X 28", see drawing for end taper
D	1	Base plate with grooves, see drawing. 1½" X 5½" X 24", Fasten with nails or screws
E	1	Front Leg 1½" X 3½" X 7
F	2	Removal Rails, ¾" x 3.5" x 2" with ¼"x ¾" cut-out, see drawing
M	1	Mold 3½" of 3" schedule 40 PVC with 1/8" or 3/16" holes on ½" centers. See note 1
J	1	Mold Plunger, sized to fit inside the 3" PVC mold 7" long with 1 1/8" hole, 5" Deep. See note 1 & 2
K		Center Drainage Tube 4 ½" long, ¾" schedule 40 PVC with 1/8" or 3/16" holes on ½" centers. See note 1
L	1	Mold Base Plate, Optional Metal or Plastic, made of two pieces 1/8" thick, size the ID dimension to fit inside the 3" mold, see drawing for details.

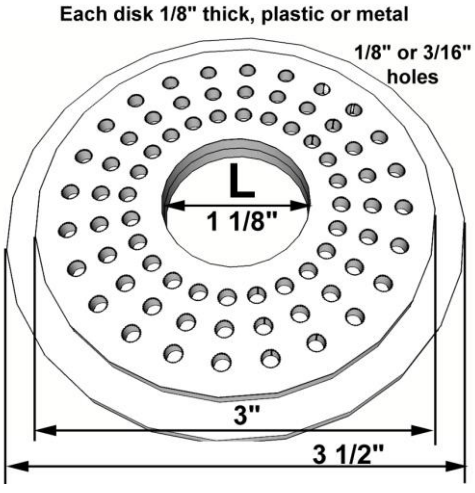


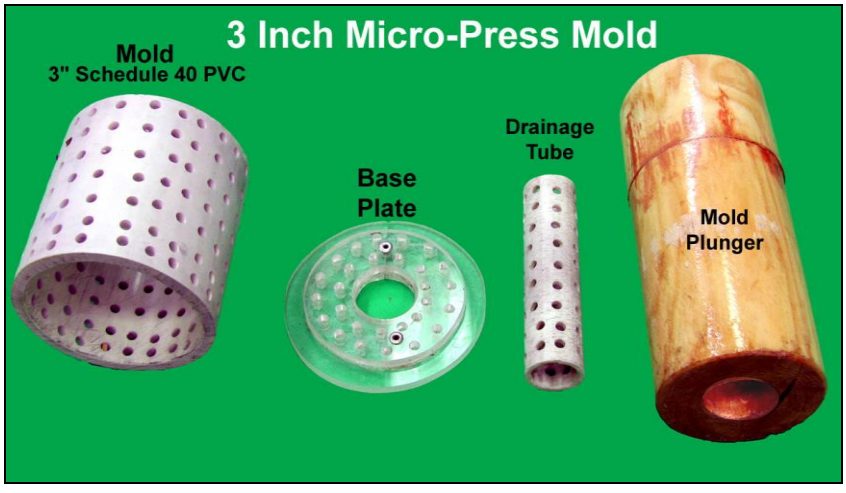












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