**Ehlers Desk**

**MATERIALS:**
1 – Sheet of 3/4” Plywood
1 – Half Sheet of 1/4” Plywood
4 – Osborne Tapered Legs
2 – 1x6x6’
5 – 1x2x8’
3 – 1x3x8’
1 – 1x4x6’
3 – Sets of 18” Drawer Slides
2 – Cup Pulls
2 – Knobs
3/4” Veneer Edging
1-1/4” Pocket Hole Screws
1-1/4” Brad Nails
3/4” Brad Nails

**CUT LIST:**
4 – 1x6 @ 17” (sides)
2 – 1x2 @ 17” (side stretchers)
2 – 1x2 @ 22 5/8” (long cross piece, long point to short point)
4 – 1x2 @ 11 3/8” (short cross piece)
1 – 1x6 @ 53” (back)
5 – 1x2 @ 53” (back stretcher and supports)
1 – 3/4” plywood @ 61” x 25” (top)
2 – 1x3 @ 18 1/8” (supports)
4 – 3/4” plywood @ 20 3/8” x 3 3/4” (drawer slide supports)
2 – 1x2 @ 3 3/4” (divider trim)

**TOOLS:**
Tape Measure
Speed Square

**LARGE DRAWER (1):**
2 – 1x3 @ 28” (front/back)
2 – 1x3 @ 19” (sides)
1 – 1/4” plywood @ 29 1/2” x 19” (bottom)
1 – 1x4 @ 30 1/2” (face)
Pencil
Drill
Miter Saw
Kreg Jig
Kreg Rip-Cut
Brad Nailer or Hammer
Iron
Safety Glasses
Hearing Protection

**SMALL DRAWERS (2):**
- 4 – 1x3 @ 19” (front/back)
- 4 – 1x3 @ 7 ¼” (sides)
- 2 – ¼” plywood @ 19” x 8 ¾” (bottom)
- 2 – 1x4 @ 9 ½” (face)

**STEP 1**
Construct sides. Drill ¾” pocket holes and attach with 1 ¼” pocket hole screws and glue. 1x6 boards will be flush to the insides of the legs. The outside edge of the 1x2 stretcher should line up with the outside edge of the 1x6 sides as shown.
**STEP 2**
Attach cross pieces. Use these measurements as a loose guide and measure and cut cross pieces to fit. The outside ends are cut at a 40° angle while the middle ends are a 5° angle. Again, I recommend measuring and cutting the cross pieces to fit your project for the most precision.
**STEP 3**
Construct the carcass. Drill ¾” pocket holes and attach with 1 ¼” pocket hole screws and glue. Don’t forget to drill pocket holes facing up to attach the top in later steps.
**STEP 4**
Attach the top with 1 ¼” pocket hole screws and glue, allowing a 1” overhang on all sides. Optional: iron on ¼” veneer edge banding to hide raw plywood edges.
**STEP 5**
Attach underside supports with ¾” pocket holes and 1 ¼” pocket hole screws and glue.
**STEP 6**
Attach drawer slide supports with 3/4” pocket holes and 1 ¼” pocket hole screws and glue. Note that the boards will be flush to the back.
step 7

Attach 1x2s with 3/4" pocket holes and 1-1/4" pocket hole screws and glue.
**STEP 8**
Attach trim with 1 ¼” brad nails and glue.
**STEP 9**
Build the large drawer as shown. Drill \( \frac{3}{4} \)” pocket holes on the outside of the boards (pocket holes will be hidden by drawer face in later steps) and attach with 1 \( \frac{3}{4} \)” pocket hole screws and glue. Attach \( \frac{1}{4} \)” plywood bottom with \( \frac{3}{4} \)” brad nails or staples and glue.
**STEP 10**
Build 2 small drawers. Drill ¾” pocket holes on the outside of the boards (pocket holes will be hidden by drawer face in later steps) and attach with 1 ¼” pocket hole screws and glue. Attach ¼” plywood with ¾” brad nails or staples and glue.
STEP 11
Install drawer slides according to manufacturer’s directions. Be sure to install drawers ¾” inset to allow space for the drawer face in later steps.
STEP 12
Attach drawer face with 1 ¼” brad nails and glue, allowing a 1/8” gap around all sides. You may need to countersink the machine screws from the inside to attach knobs and pulls.