Bench shown below with Gramercy Holdfast and optional jig to hold material against built in plan stop for hand planning.

Note: Mounting brackets for securing legs to side panels and top are typical plumbers 3/8" threaded rod brackets. In the Lost Art Press blog Chris uses 14 brackets from McMaster-Carr (item # 11445T1) and one T-nut from McMaster-Carr (item #94122A200 or the 6 prong version 90975A163). In the drawing above I have used a recessed 11445T1 bracket to aide in securing the cleat to the bench instead of a T-nut.
Scale: Orthogonal Views 1:12  
Cleat Views 1:8

Note: All boards 1 1/2" thick unless otherwise noted.

**Top & Leg Details**

- **45"**
- **72"**
- **18"**
- **12"**

**Bottom of Top**

- **10 3/4"**
- **6 1/2"**

**Top View of Leg**

- **5 1/2"**
- **32 1/2"**
- **16 1/2"**

**Front of Leg**

- **19 1/2"**
- **16 1/2"**

**Back of Leg**

- **16 1/2"**
- **16 1/2"**

**Details of Leg Parts**

- **1 1/2"**
- **2 1/2"**

**Leg Stretcher secured to leg uprights using 4 wood screws**

**Cleat Details**

- **1 3/4"**
- **2 1/4"**
- **10 5/8"**

**Notch 1 1/2" deep**

**Hole for 3/8" bolt that goes thru to mounting bracket on other side of front side board**

- **3/4"**

**Hole placement for Holdfast up to builders/users discretion**

**Ensure hole placement allows holdfast to clear side panel**

**Leg front plate secured to uprights using wood screws**

- **3/4" holes for storing Holdfast**

**Metal Re-enforcing plate to protect Plan Stop Hole**

**2 1/2" Square Plane Stop**

**7/16" holes for 3/8" bolts to secure top or side panel mounting bracket on other side of this board**

**Mounting holes for 3/8" dia bolt w/recess 1" dia x 1/2" deep allows bolt head/washer to be below top surface of bench**

**This hole & center hole for 3/8" lag screw w/washer cannot use thru bolts will interfere with plane stop movement up & down**

**Leg Stretch security 4 wood screws to leg uprights using 4 wood screws**

**1" square stock 3 woods crews used to secure "shelf lip" to leg stretcher**

**3/4" holes for Holdfast**

**7/16" Holes to accommodate 3/8" bolts**
Nicholson Knock-down Work Bench

Scale: Orthogonal Views 1:12

Note: All boards 1 1/2" thick unless otherwise noted

2nd layer panel cut from 1" x 10" board

Front Side Panel

Back Side Panel

Mounting holes for 3/8" dia bolt w/recess 1"dia x 1/2" deep allows bolt head/washer to be below surface of leg side panel

Holes for attaching Cleat to side Panel

Hole Pattern for Holdfast is up to builders/users discretion

Verify during construction that leg fronts fit in this space

Ensure hole placement does not encounter the "under board" of top

Shelf boards cut from 1" x 10" board

Batens cut from 1 1/2" thick stock 2" wide secured to shelf boards with wood screws

Angle cut to make cleaning off lower shelf easier

Front of Shelf

Back of Shelf

Front & Side & Panel

10 3/4"

11 1/4"

2 1/2"

11 1/4"

2 1/2"

7 1/4"

2 1/2"

45"

2 1/2"

11 1/4"

2 1/2"

2 1/2"

64"