

Mobile Utility Cart

Automated woodworking cut list, grouped board cutting diagrams, and step-by-step 3D assembly guide.

Specifications

Overall Dimensions	32" W × 20" D × 32" H
Total Parts Count	16 pieces (5 unique sizes)
Dimensional Stock Lumber	5 boards (5 unique cutting patterns)
Plywood Sheet Panels	1 panels
Wood Screws	24 screws

3D Project Overview

benchbuild.app

Cut List Summary

Identical pieces are grouped together. Check off each row as you cut your lumber and sheet goods.

Qty	Material	Cut Dimensions	Miter / Angle Cuts	Piece Names
4×	4x4	31.3"	Square (90°)	4× Legs
4×	2x4	15"	Square (90°)	2× Aprons · 2× Stretchers
4×	2x4	30"	Square (90°)	2× Aprons · 2× Stretchers
1×	plywood	20" × 32" (0.75" thick)	Square (90°)	Worktop
3×	2x4	18"	Square (90°)	3× Shelf Slats

Board Cutting Diagrams

Boards with identical cuts are grouped with a multiplier badge (e.g., 5× **Boards**) so you only read each cutting layout once. Includes 1/8" blade kerf.

1× Board

4x4 (8' / 96" stock)

3 cuts/board • 94.2" used • 1.8" scrap

Produces: Leg Front + Leg Back + Leg Front

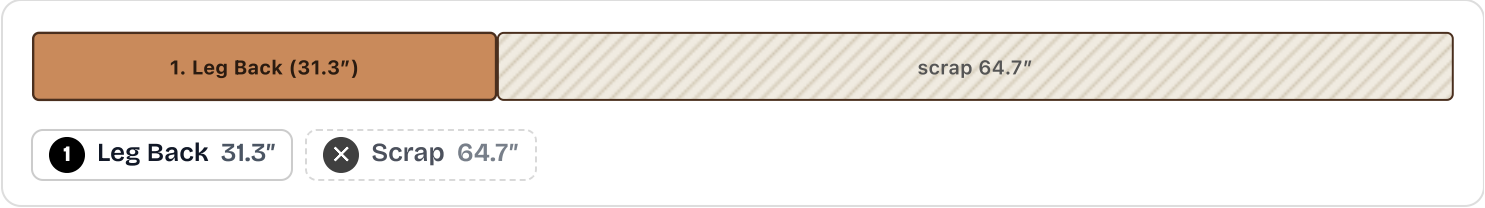


1× Board

4x4 (8' / 96" stock)

1 cut/board • 31.3" used • 64.7" scrap

Produces: Leg Back

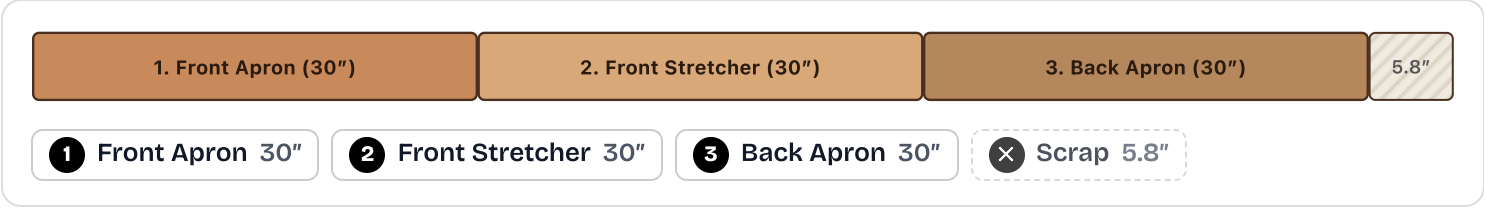


1× Board

2x4 (8' / 96" stock)

3 cuts/board • 90.3" used • 5.8" scrap

Produces: Front Apron + Front Stretcher + Back Apron



1× Board

2x4 (8' / 96" stock)

4 cuts/board • 84.4" used • 11.6" scrap

Produces: Back Stretcher + Shelf Slat 1 + Shelf Slat 2 + Shelf Slat 3



Produces: Side Apron + Side Stretcher + Side Apron + Side Stretcher

**1** Side Apron 15"**2** Side Stretcher 15"**3** Side Apron 15"**4** Side Stretcher 15"

✕ Scrap 35.6"

Step-by-Step Assembly Guide

Pieces highlighted in warm amber are added in the current step. Muted beige pieces are already assembled from previous steps.

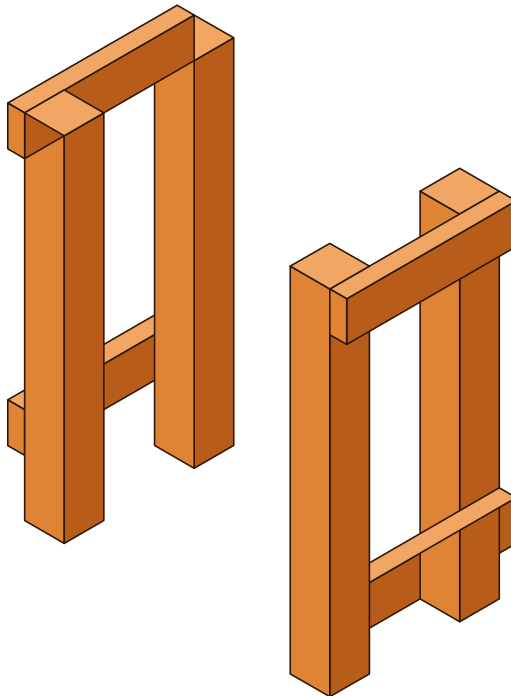
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Side Frames (×2)

Make 2 identical units (4 pcs each): 2× Leg (4x4, 31.3") 1× Side Apron (2x4, 15")

1× Side Stretcher (2x4, 15")

- Drive 2× 2.5" screws (per unit) through **Side Apron** into **Leg**
- Drive 2× 2.5" screws (per unit) through **Side Stretcher** into **Leg**



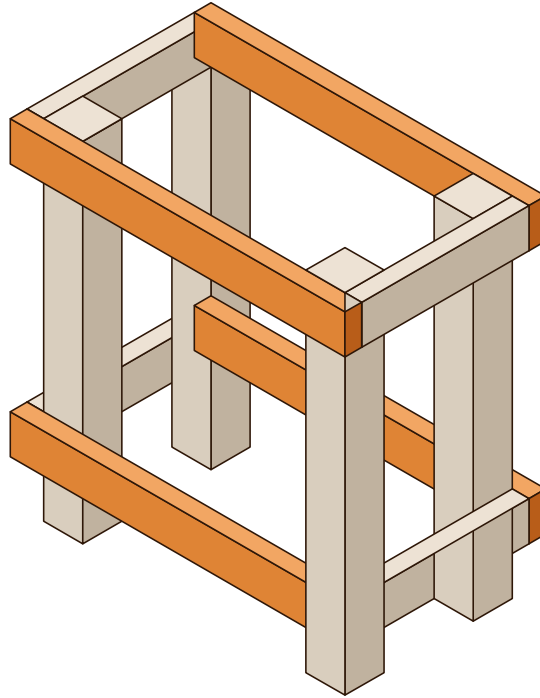
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Frame Assembly

2× Apron (2x4, 30")

2× Stretcher (2x4, 30")

- Drive 4× 2.5" screws through **Apron** into **Leg**
- Drive 4× 2.5" screws through **Stretcher** into **Leg**



3

Top & Finishing Assembly

1× Worktop (plywood, 20" × 32")

3× Shelf Slat (2x4, 18")

- Drive 2× 1.5" screws through **Worktop** into **Apron**
- Drive 6× 2.5" screws through **Shelf Slat** into **Stretcher**

