



Wagon Vise



agmcmll

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updated 17. 5. 2023 | published 17. 5. 2023

Summary

A wagon vise designed to be installed in laminated construction lumber bench top.

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Tags: [benchvise](#) [tail](#) [vise](#) [wagon](#) [woodworking](#)
[workbench](#) [vice](#)

Video description/demo:

A wagon vise designed to be installed in laminated construction lumber bench top.

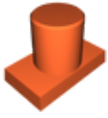
I did all prints in PETG with 5 perimeters and 15% infill.

The screw assembly uses an aluminum 1/2" square bar to provide reinforcement as well as to transfer the tightening torque from the handle into the screw.

example from home depot: <https://www.homedepot.ca/product/paulin-1-2-x-36-inch-aluminum-square-rod/1000163803>

Two 6204 ball bearings are used as thrust bearings at either end.

Model files



wagonvise-short-dog.stl



wagonvise-double-dog.stl



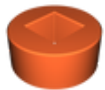
wagonvise-front-thrust-bearing-insert.stl



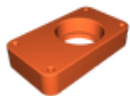
wagonvise-front-thrust-bearing-housing.stl



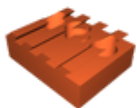
wagonvise-rear-thrust-bearing-insert.stl



wagonvise-retaining-collar.stl



wagonvise-rear-thrust-bearing-housing.stl



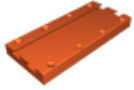
wagonvise-dog-insert.stl



wagonvise-screw.stl



wagonvise-nut.stl



wagonvise-slide.stl



wagonvise-crank-handle.stl

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