Printables logo

DDD Printable Wall Control System

3D MODEL ONLY

luma luma

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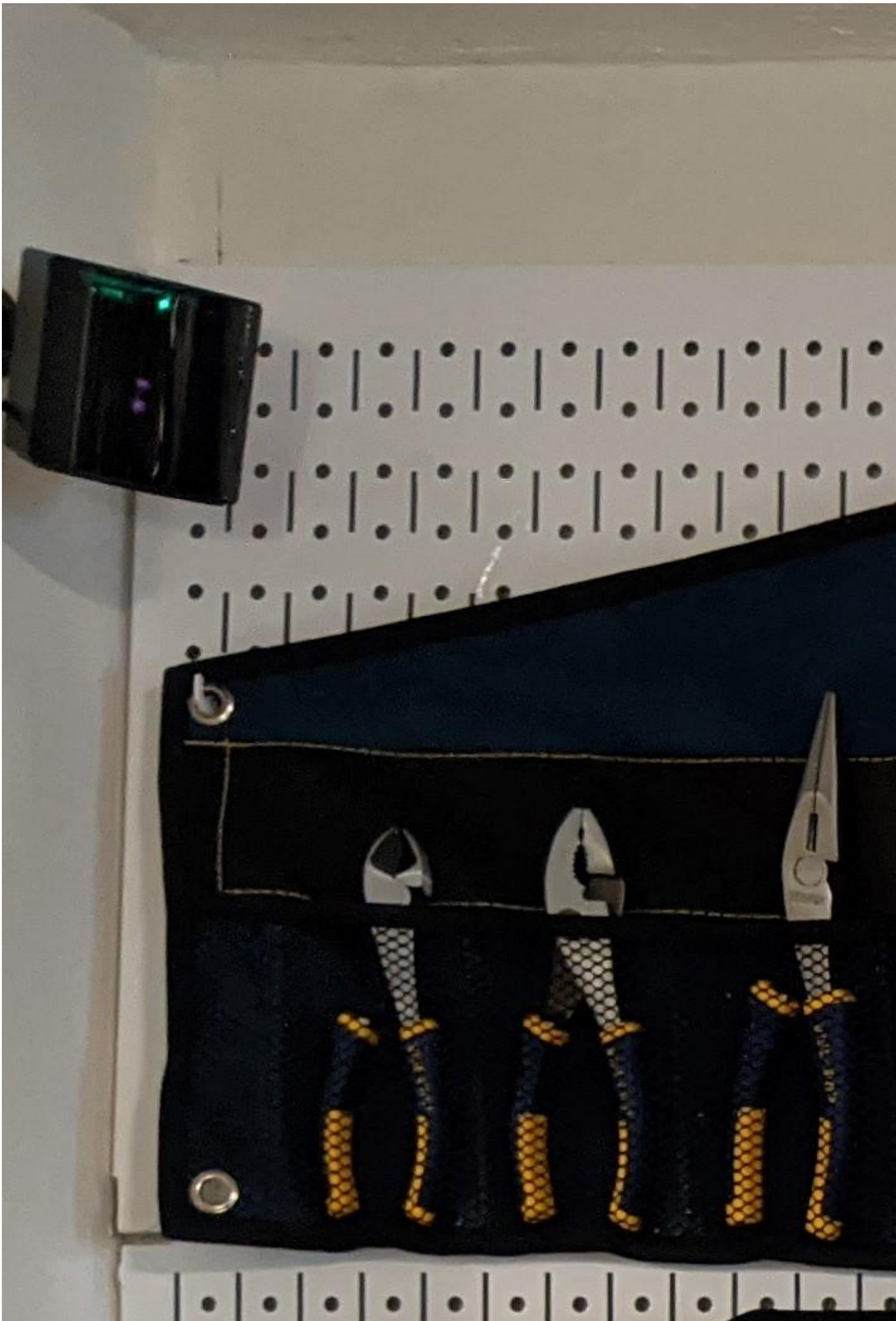
Summary

DDD Printable Wall Control System The DDD Printable Wall Control project provides a wide range of modular pegboard...

Hobby & Makers > Organizers

Tags: organization wallcontrol pegboard toolholder

DDD Printable Wall Control System



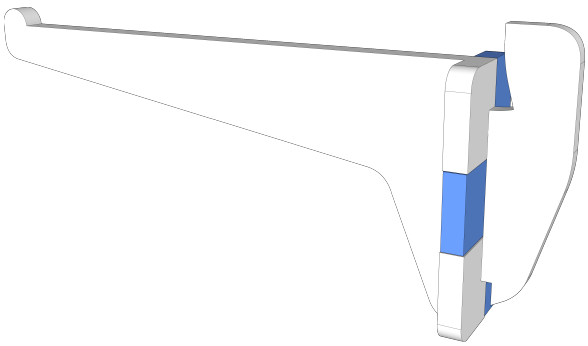
The DDD Printable Wall Control project provides a wide range of modular pegboard hangers for use with the Wall Control powder-coated steel pegboard solutions available on Amazon. After much research I landed on Wall Control as a durable, high-strength and low-price organization solution which works with existing 1/4" standard pegboard pegs. The panels also add 1" slots which allows for greater strength and rigidity for compatible hangers. I've found their panels to be inexpensive, well-made, and available in a range of colors and sizes.

Wall Control sells a line of high quality hanger accessories compatible with these slots and I've found them to be reasonably priced and of good quality. However, printed solutions can offer a highly-customized solutions made at home for your own organization needs and can do so quickly and inexpensively. One might consider leveraging both solutions as needs arise.

DDD Printable Wall Control Designs

The DDD Printable Wall Control collection is designed for easy printability, with all parts provided in a printable orientation and no supports should required. The Quickhooks series are fast-printing models for lightweight use cases. Sidepieces and Centerpieces snap together to create strong, modular hanger solutions.

Quickhooks



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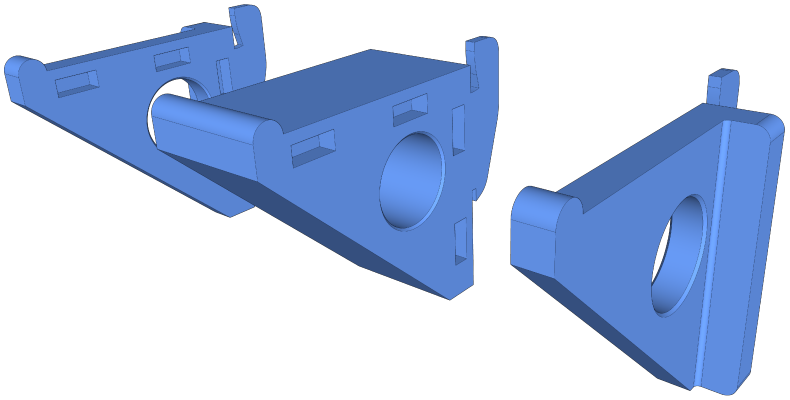
Quickhooks



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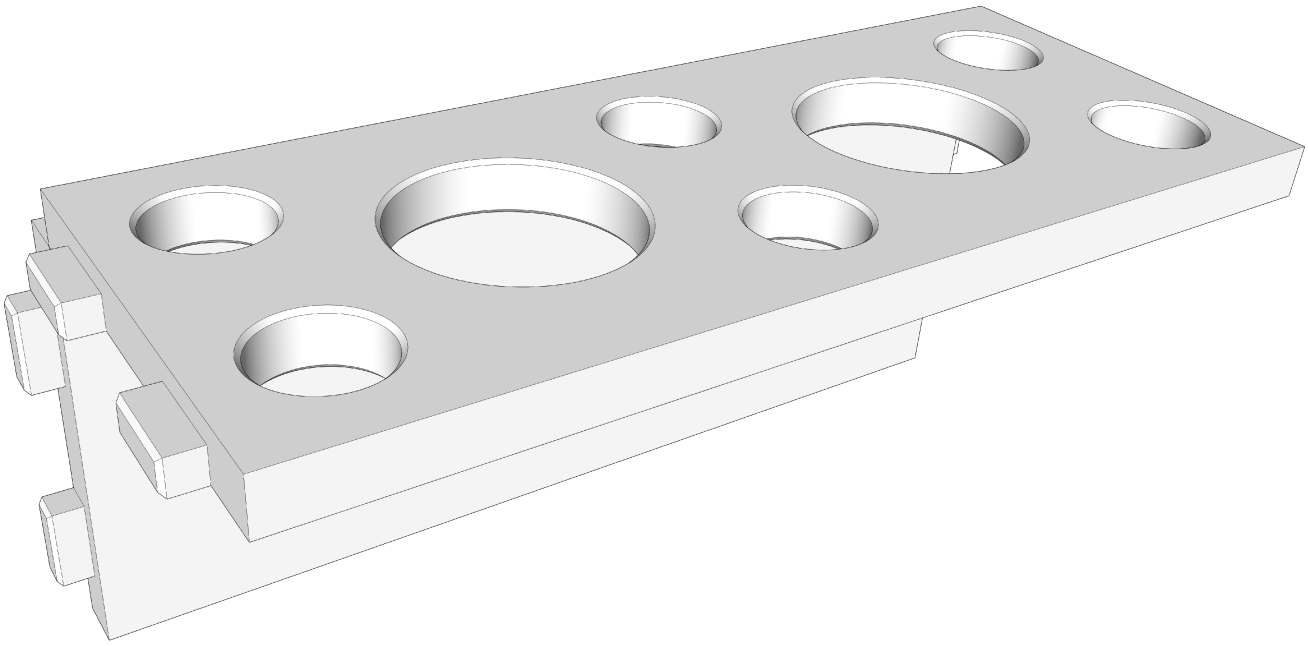
Centerpieces



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Github Repository

This project currently offers over 200 STLs and counting. Most STL sharing sites don't allow for much in the way of organization or documentation, nor do they offer an easy way to push updates as I publish new models. Github solves all of this, so this project will primarily be housed and updated there. I'd strongly recommend heading over there to browse this project as it will make a lot more sense, you'll have access to more of the documentation, and you'll be downloading the latest version of the models available.

Using DDD Printable Wall Control

The simplest use case to create a single hook might involve a sidepiece along with a retainer pin to help keep the part in place in the slot. Most

use cases will involve a left/right combination of sidepieces, with a centerpiece in the middle to create a modular hanging solution with interchangeable snap-fit parts.

The parts are designed with a press-fit, one can use a vice or clamps to force the parts together. The final fit will be determined by the calibration of your printer, if anything is loose you can add a drop of glue to keep parts held tightly.

Locking Wall Control parts

Several Centerpiece models offer a locking feature based on a fantastic idea from Seth Altobelli. A locking screw can be printed and screwed into these models to provide a solid, positive-lock fit with the Wall Control system. A locked part is fully constrained and will not move while hanging or removing a tool which greatly improves the experience over traditional pegboard offerings.

About powder coated Wall Control Panels

Wall control panels are available in a range of colors or as a simple unpainted, steel sheet. The plain steel panels are slightly thinner than the powder coated panels. The catches designed into these models are designed to attach firmly to the powder coated panels, while unpainted panels might have a little more play due to the difference in panel thickness.

Print instructions Sidepieces

The sidepieces bear most of the load for an assembled hanger solution. The downward forces press up against a catch on the bottom of the slot hook on each sidepiece, while the outward and rotational forces pull against the top-most portion of that same catch. I've found printing with 100% perimeters in the catch area provides the strongest print. PLA is a good choice for maximum rigidity.

Centerpieces

In most use cases, the centerpieces are loaded with a bending moment, which is only really a problem when using the longer (4"+) models. Adding infill and perimeters can help with rigidity, but for most cases simply printing fast and cheap should work fine. PLA is a good choice for maximum rigidity.

This remix is based on

[GitHub - aderusha/DDD-Printable-Wall-Control-System: DDD Printable Wall Control System, 3d printable organization solutions for Wall Control pegboards]

Model files

wall-control-mounting-screw-hole-plug.stl

quickhook-retainer.stl

8mm-lock-pin.stl

4x10x8mm-pin.stl

ddd-printable-wall-control-sidepieces.skp

ddd-printable-wall-control-centerpieces.skp

ddd-printable-wall-control-locking-spacers.skp

ddd-printable-wall-control-quickhooks.skp

1x6-locking-spacer.stl

2x7-locking-spacer.stl

1x7-locking-spacer.stl

2x2-locking-spacer.stl

1x5-locking-spacer.stl

2x1-locking-spacer.stl

8mm-lock-pin.stl

2x6-locking-spacer.stl

3x6-locking-spacer.stl

1x4-locking-spacer.stl

3x5-locking-spacer.stl

3x4-locking-spacer.stl

2x4-locking-spacer.stl

1x3-locking-spacer.stl

3x3-locking-spacer.stl

2x5-locking-spacer.stl

3x2-locking-spacer.stl

1x2-locking-spacer.stl

2x3-locking-spacer.stl

3x1-locking-spacer.stl

1x1-locking-spacer.stl

3x7-locking-spacer.stl

3x7-spacer-perforated.stl

1x2-spacer-perforated.stl

1x6-spacer-perforated.stl

3x4-spacer-perforated.stl

2x3-spacer-perforated.stl

1x5-spacer-perforated.stl

1x4-spacer-perforated.stl

2x6-spacer-perforated.stl

3x3-spacer-perforated.stl

2x4-spacer-perforated.stl

2x7-spacer-perforated.stl

3x5-spacer-perforated.stl

1x3-spacer-perforated.stl

2x2-spacer-perforated.stl

2x5-spacer-perforated.stl

3x2-spacer-perforated.stl

2x3-l-bracket-hook-right.stl

2x1-l-bracket-hook-left.stl

2x1-l-bracket-hook-center.stl

2x1-l-bracket-flat-center.stl

2x1-l-bracket-hook-right.stl

2x2-l-bracket-hook-right.stl

2x3-l-bracket-flat-right.stl

2x3-l-bracket-hook-center.stl

2x3-l-bracket-hook-left.stl

2x2-l-bracket-hook-center.stl

2x2-l-bracket-flat-right.stl

2x1-l-bracket-flat-left.stl

2x3-l-bracket-flat-center.stl

2x1-l-bracket-flat-right.stl

2x2-l-bracket-hook-left.stl

2x3-l-bracket-flat-left.stl

2x2-angle-bracket-hook-left.stl

2x3-angle-bracket-flat-right.stl

2x3-angle-bracket-inverted-flat-center.stl

2x4-angle-bracket-flat-left.stl

2x4-angle-bracket-hook-right.stl

4x4-angle-bracket-flat-center.stl

2x3-angle-bracket-inverted-flat-right.stl

4x4-angle-bracket-hook-right.stl

2x3-angle-bracket-hook-center.stl

4x4-angle-bracket-flat-right.stl

2x2-angle-bracket-flat-right.stl

2x4-angle-bracket-flat-center.stl

4x4-angle-bracket-flat-left.stl

2x2-angle-bracket-hook-right.stl

2x3-angle-bracket-hook-right.stl

2x3-angle-bracket-flat-left.stl

2x2-angle-bracket-flat-left.stl

2x4-angle-bracket-hook-left.stl

2x2-angle-bracket-flat-center.stl

2x2-angle-bracket-hook-center.stl

2x4-angle-bracket-hook-center.stl

4x4-angle-bracket-hook-center.stl

4x4-angle-bracket-hook-left.stl

2x3-angle-bracket-hook-left.stl

2x4-angle-bracket-flat-right.stl

2x3-angle-bracket-flat-center.stl

2x3-angle-bracket-inverted-flat-left.stl

2x3-1-2in-dowel-rod-hanger-right.stl

2x4-3-4in-dowel-rod-hanger-right.stl

2x3-3-4in-dowel-rod-hanger-left.stl

2x4-3-4in-dowel-rod-hanger-left.stl

2x3-3-4in-dowel-rod-hanger-center.stl

2x3-3-4in-dowel-rod-hanger-right.stl

2x3-1-2in-dowel-rod-hanger-left.stl

2x4-3-4in-dowel-rod-hanger-center.stl

2x3-1-2in-dowel-rod-hanger-center.stl

6x0-flat-center.stl

2x0-flat-right.stl

2x0-flat-center.stl

5x0-flat-right.stl

3x0-flat-center.stl

4x0-flat-right.stl

3x0-flat-right.stl

4x0-flat-center.stl

5x0-flat-left.stl

6x0-flat-left.stl

2x0-flat-left.stl

4x0-flat-left.stl

5x0-flat-center.stl

6x0-flat-right.stl

3x0-flat-left.stl

2x225-square-bracket-flat-left.stl

2x425-square-bracket-hook-left.stl

2x225-square-bracket-flat-right.stl

2x425-square-bracket-hook-center.stl

3x6-spacer-perforated.stl

1x7-spacer-perforated.stl

3x2-15in-u-hook.stl

3x1-10mm-u-hook.stl

2x4-2x-425mm-u-hooks.stl

2x2-15in-u-hook.stl

3x3-2x-10mm-u-hooks.stl

3x6-spacer-blank-flush.stl

3x7-spacer-blank-flush.stl

2x5-spacer-blank-flush.stl

3x5-spacer-blank-flush.stl

2x4-spacer-blank-flush.stl

2x2-spacer-blank-flush.stl

3x1-spacer-blank-flush.stl

2x3-spacer-blank-flush.stl

2x1-spacer-blank-flush.stl

2x6-spacer-blank-flush.stl

4x10x8mm-pin.stl

3x2-spacer-blank-flush.stl

3x3-spacer-blank-flush.stl

2x7-spacer-blank-flush.stl

2x2-milwaukee-3-8-cordless-ratchet.stl

3x7-benchtop-hand-tool-holder-tray.stl

1x2-nws-138-69-200-fantastico-plus-side-cutters.stl

3x7-benchtop-hand-tool-holder.stl

2x5-13x-10mm-screwdriver-holder.stl

2x5-wera-932.stl

1x6-11pc-wrench-hanger-inverted.stl

2x5-wera-kraftform-plus-160i-6.stl

2x4-10x-10mm-screwdriver-holder.stl

1x3-chinese-digital-calipers-300mm.stl

2x6-wera-917918.stl

4x3-milwaukee-m12-charger.stl

2x2-28mm-hammer-head-catch.stl

3x1-dewalt-dcb095-charger.stl

2x4-9x-10mm-screwdriver-holder.stl

1x2-wera-3-8-zyklop-ratchet.stl

2x2-33mm-hammer-head-catch.stl

2x2-wera-3368.stl

5x1-porter-cable-pcxmvc-charger.stl

1x2-megapro-ratcheting-screwdriver.stl

2x7-dewalt-dcb118-charger.stl

1x6-11pc-wrench-hanger.stl

1x3-chinese-digital-calipers-150mm.stl

1x2-vampliers-vt-001-8.stl

1x3-wiha-t-handle-m10-m8-m6-m5.stl

1x4-wiha-t-handle-m4-m3-m25-m2.stl

3x3-spacer-clip-on.stl

3x2-spacer-clip-on.stl

2x7-spacer-clip-on.stl

3x4-spacer-clip-on.stl

2x6-spacer-clip-on.stl

2x4-spacer-clip-on.stl

3x5-spacer-clip-on.stl

2x5-spacer-clip-on.stl

3x6-spacer-clip-on.stl

3x7-spacer-clip-on.stl

2x2-spacer-clip-on.stl

2x3-spacer-clip-on.stl

4x10x8mm-pin.stl

2x2-spacer-blank.stl

1x1-spacer-blank.stl

1x7-spacer-blank.stl

1x3-spacer-blank.stl

1x4-spacer-blank.stl

3x7-spacer-blank.stl

3x5-spacer-blank.stl

3x2-spacer-blank.stl

2x4-spacer-blank.stl

1x5-spacer-blank.stl

1x6-spacer-blank.stl

2x7-spacer-blank.stl

3x4-spacer-blank.stl

3x6-spacer-blank.stl

3x1-spacer-blank.stl

1x2-spacer-blank.stl

2x6-spacer-blank.stl

2x5-spacer-blank.stl

3x3-spacer-blank.stl

2x3-spacer-blank.stl

2x1-spacer-blank.stl

quickhook-2in-medium.stl

quickhook-1in-light.stl

quickhook-retainer.stl

quickhook-3in-medium.stl

quickhook-3in-heavy.stl

quickhook-1in-medium.stl

quickhook-2in-light.stl

quickhook-2in-heavy.stl

quickhook-1in-heavy.stl

quickhook-3in-light.stl

2x325-25in-u-bracket-center.stl

2x225-15in-u-bracket-left.stl

2x25-2in-u-bracket-left.stl

2x25-2in-u-bracket-right.stl

2x325-25in-u-bracket-right.stl

2x25-2in-u-bracket-center.stl

2x225-175in-u-bracket-center.stl

2x225-175in-u-bracket-right.stl

2x225-15in-u-bracket-right.stl

2x225-15in-u-bracket-center.stl

2x325-25in-u-bracket-left.stl

2x225-175in-u-bracket-left.stl

2x2-l-bracket-flat-center.stl

2x2-l-bracket-flat-left.stl

2x225-square-bracket-hook-right.stl

2x425-square-bracket-hook-right.stl

2x425-square-bracket-flat-right.stl

2x425-square-bracket-flat-left.stl

2x225-square-bracket-hook-left.stl

2x425-square-bracket-flat-center.stl

2x225-square-bracket-flat-center.stl

2x225-square-bracket-hook-center.stl

4x1-locking-retainer.stl

2x1-locking-retainer.stl

8mm-lock-pin.stl

6x1-locking-retainer.stl

2x0-retainer.stl

5x0-retainer.stl

5x1-locking-retainer.stl

3x1-locking-retainer.stl

6x0-retainer.stl

4x0-retainer.stl

3x0-retainer.stl

3x5-angle-bracket-flat-right.stl

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