



C-Clamp with Jaws for Parabolic Curved Surfaces



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Summary

C-clamp with jaws that have a shallow curve so they can be clamped to a parabolic curved surface.

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[cclampjaws](#)

C-clamp with jaws that have a shallow curve so they can be clamped to a parabolic curved surface and hold on tighter. Should roughly follow other shallow curved surfaces as well to better grip them than flat jaws. Made for a dish 80 cm in diameter, about 16 cm in depth, and 2.5 cm in thickness.

The clamp body should print fine standing on its back face and the jaws should be printed on their side face to preserve the shallow contour. The bottom jaw is convex and the top one that attaches to the spindle is concave. The spindle likely will need a large brim to prevent it from coming loose and is printed oriented vertically. Used 0.2 mm layer heights for all parts.

The jaws were modified in Microsoft 3D Builder by using a slice of the parabolic dish as a cutting tools for them and lining them up with the edge

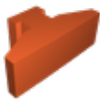
of the dish. It was imported into Autodesk Inventor as a mesh later for the purpose of being a part of the full telescope's CAD.

This remix is based on



C-Clamp with Swappable Clamp-Ends
by Studio Space Dust

Model files



top-jaw.stl



bottom-jaw.stl



clamp-body.stl



clamp-spindle.stl

clamp_assembled.ipt

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