



Corner Stiffening Bracket for 2020 Aluminum Extrusion Frames



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Summary

This bracket adds structural rigidity to the inside corner of a structure made of 20mmx20mm t-slot extrusion.

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This bracket adds structural rigidity to the inside corner of a structure made of 20mmx20mm t-slot extrusion. The bracket is used for corners that have two members butting perpendicularly into one other frame member. This specific design utilizes an M6 screw on the outer corner because that is the size of a tapped hole in the end of cheap 2020 profile extrusions.

The hardware required to mount this bracket is below:

10mm M5 FHCS: Qty. (6) <https://www.mcmaster.com/91294A208/>

M5 T-Nuts: Qty. (6) <https://a.co/d/6JfQ1XG>

16mm M6 FHCS: Qty. (1) <https://www.mcmaster.com/91294A238/>

Recommended print settings: 0.2mm layer height, 4 perimeters, 20% infill.

Model files



2020-extrusion-corner-bracket-v3.stl



2020-extrusion-corner-bracket.sldprt

☐ Customizable SolidWorks Model File



aluminum_extrusion_65mm_20x20.sldprt

☐ external reference for the main .SLDPRT

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