ROUZ ASTRO
Astronomy Solutions

Tube rings and dovetails

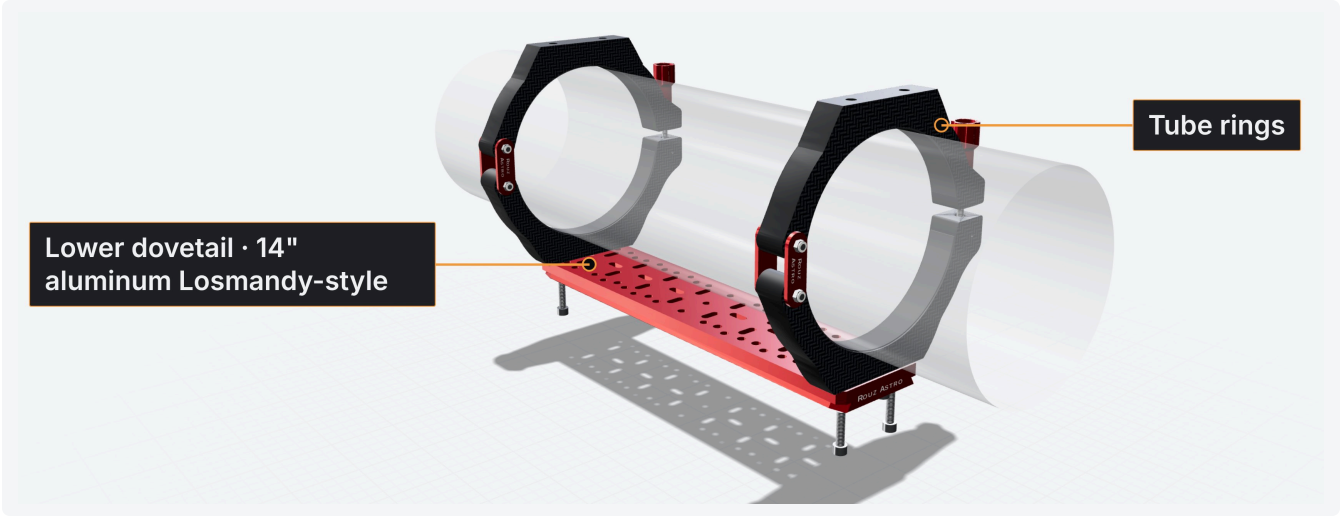
Assembly instructions · 12 steps

1 The lower dovetail

Everything starts on the lower dovetail, the bar that clamps into your mount. Shown here: a 14" aluminum Losmandy-style bar.

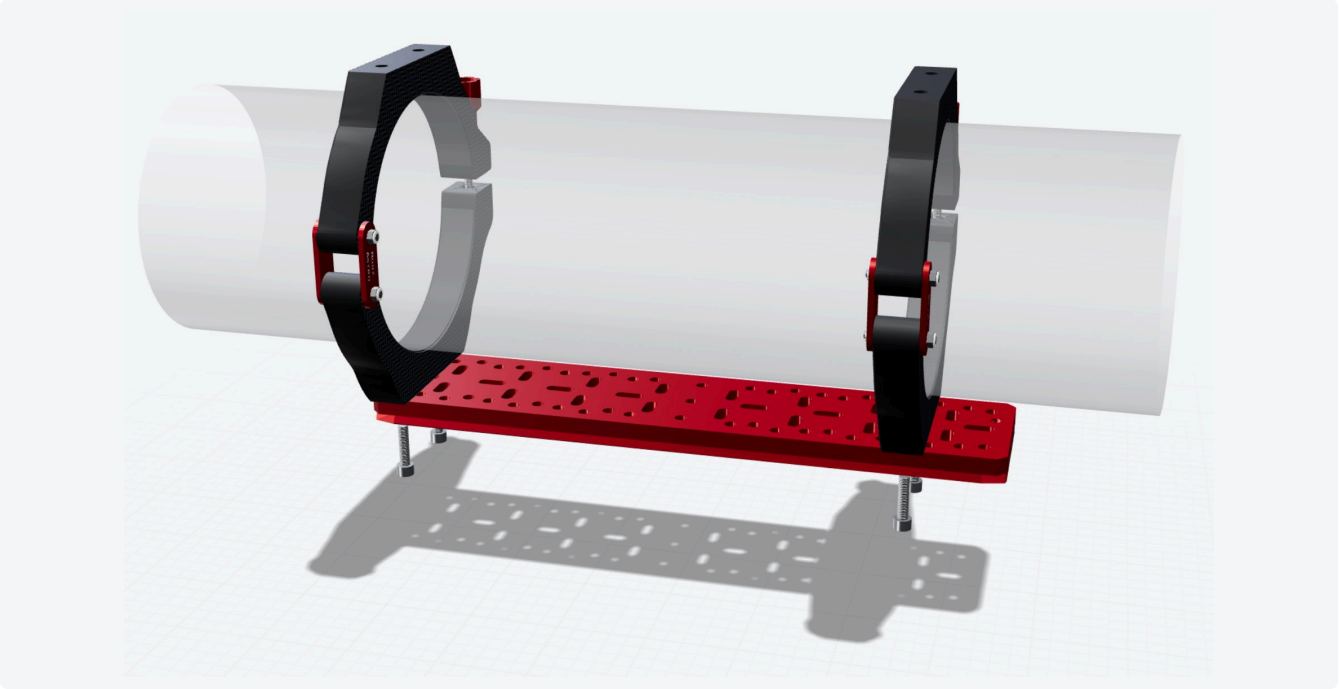
2 Rings onto the dovetail

Each ring's flat base sits on the dovetail, over a pair of holes. Place everything first, then bolt it down. Mount the rings with the knob half on top. The lower half is the stronger one and carries the telescope.



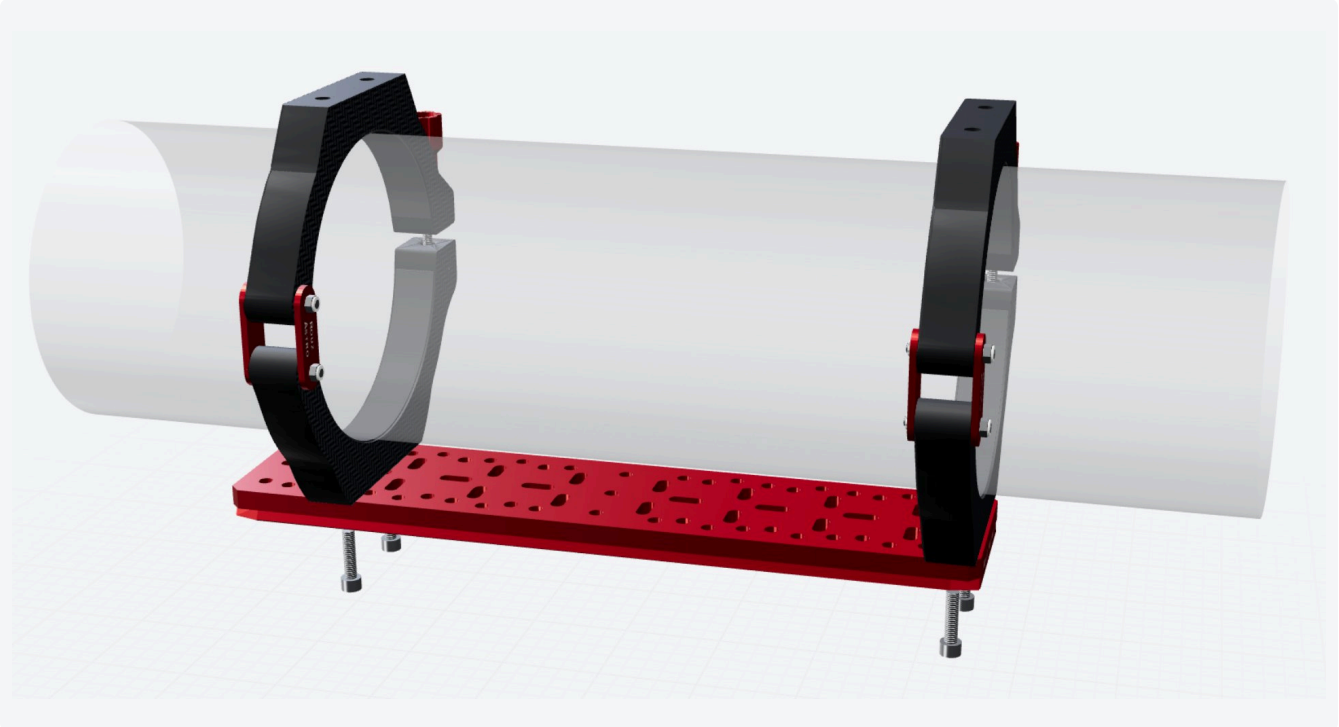
3 Move the rings

The holes repeat every 42 mm, so each ring can move to another hole pair to fit your telescope.



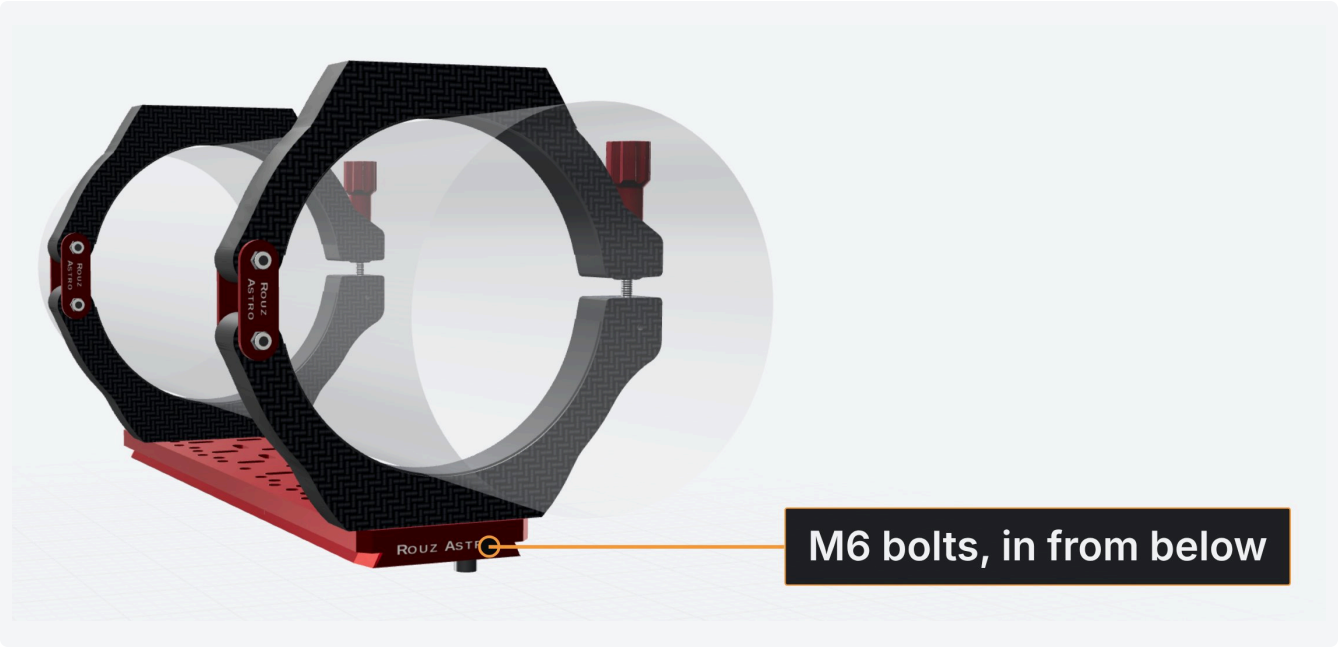
4 Or slide the bar

The same holes let the dovetail move in the rings, to help balance the telescope.



5 Bolts from below

With everything in place, two M6 bolts per ring go in from underneath, through the dovetail and up into the ring. Titanium bolts: put a little anti-seize on the threads before fitting.



6 The upper dovetail

An 11" aluminum Losmandy-style bar goes across the ring tops, for a handle, a finder or accessories.

7 Slide the upper bar

The upper bar has its own row of holes, so it can sit further forward or back.

8 Bolts from the top

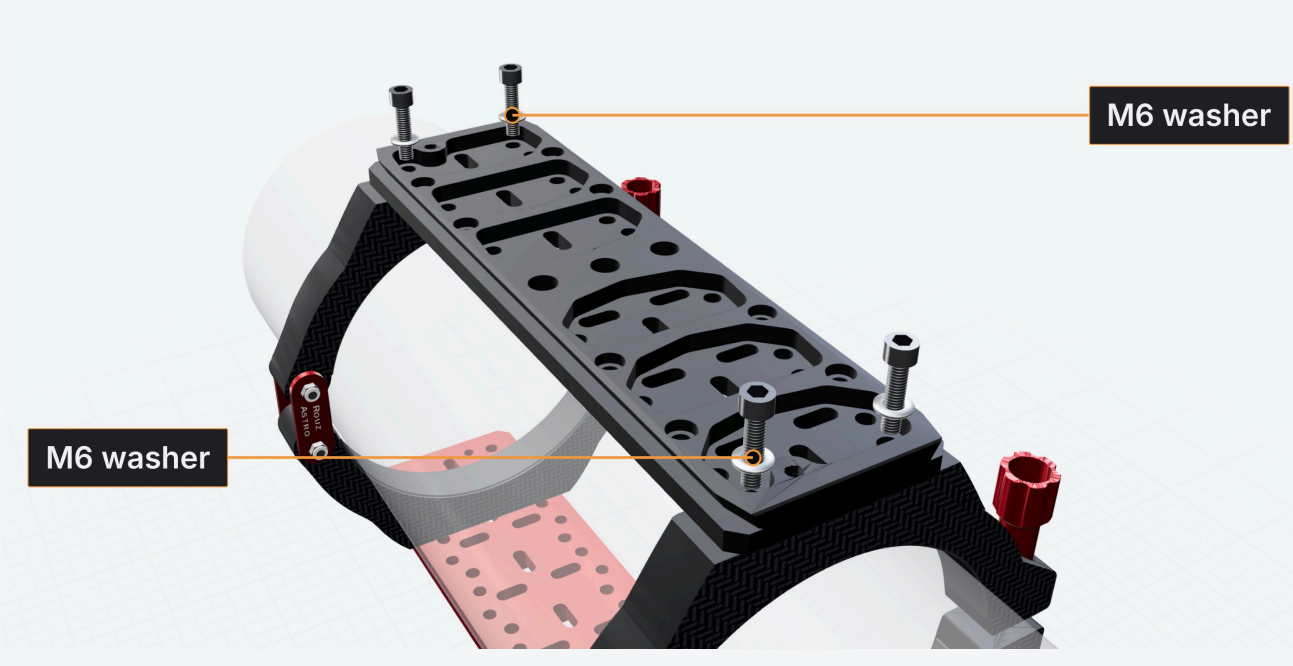
Once the upper bar is where you want it, its M6 bolts go in from the top, down into the rings. Titanium bolts: put a little anti-seize on the threads before fitting.

9 Or carbon fiber composite

The upper bar also comes in carbon fiber composite: lighter, for accessories up to 12 lb.

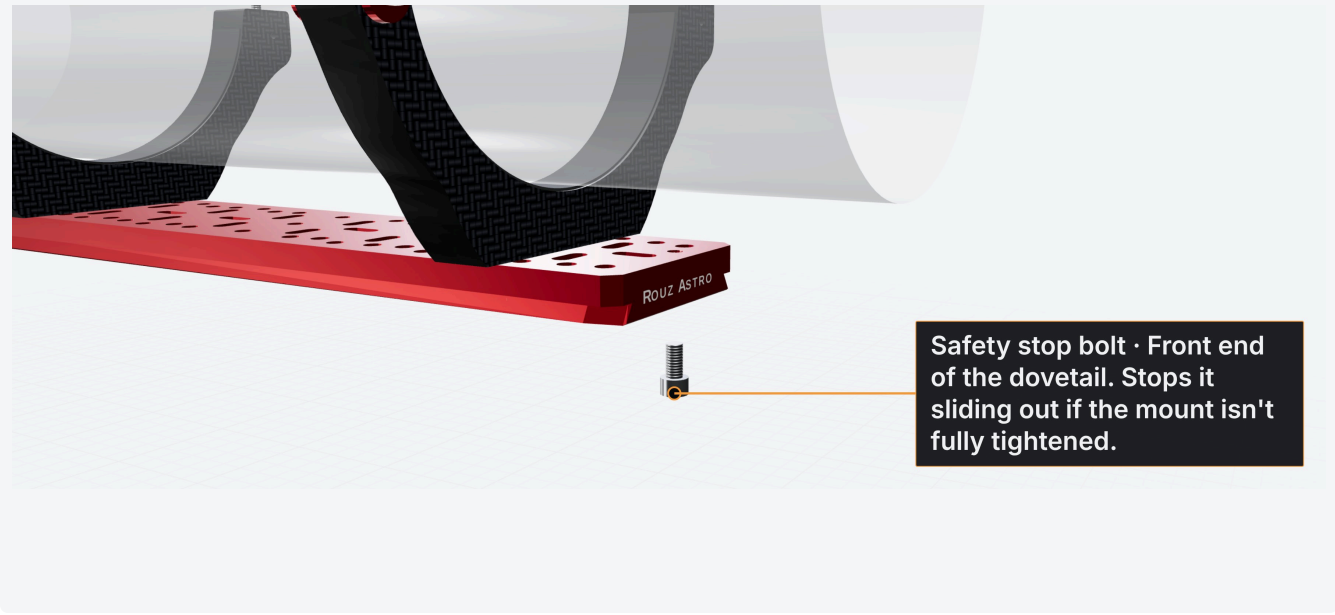
10 Washers on carbon bars

On carbon fiber composite dovetails, an M6 washer sits under each bolt head to spread the load.



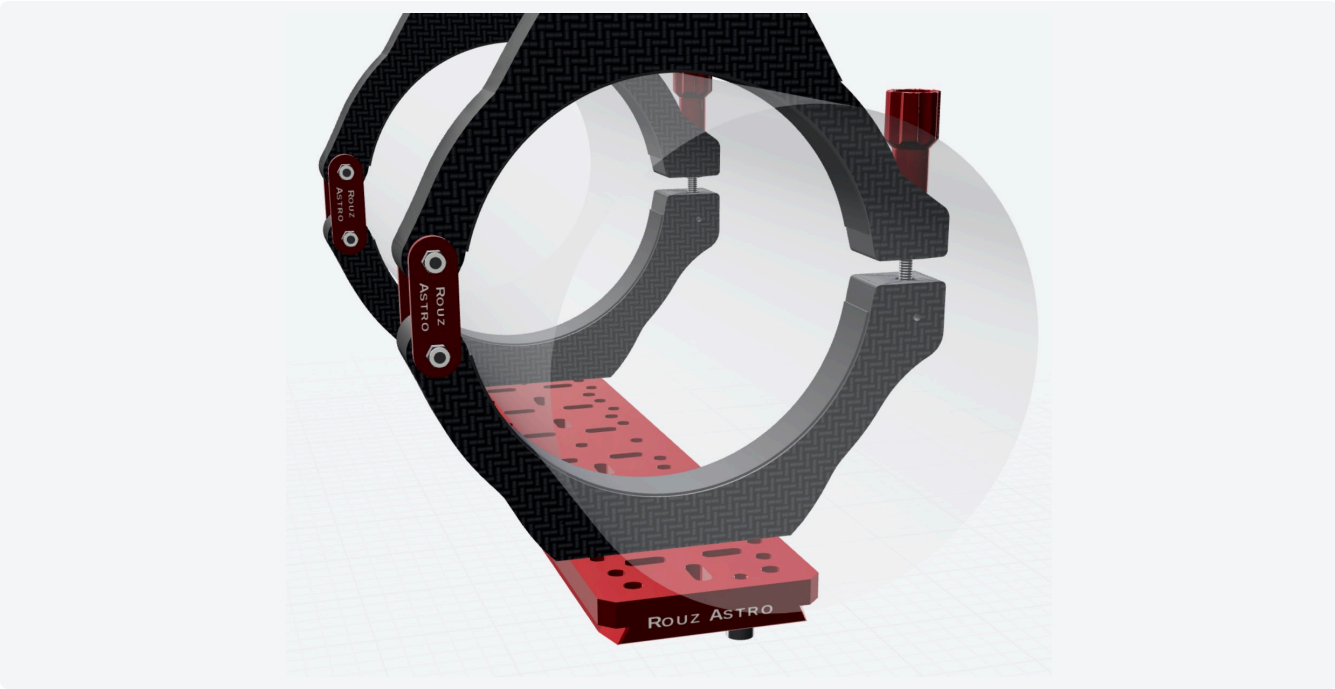
11 The safety stop bolt

Front end of the dovetail. Stops it sliding out if the mount isn't fully tightened.



12 Ready for your telescope

Rings, lower and upper dovetails, bolts and the stop bolt are all in place. Your telescope goes in next.



Torque settings · M6 bolts for rings and dovetails

Carbon fiber composite dovetails	**55 in-lbs** (4.6 ft-lbs · 6.2 N·m)
Aluminum dovetails	**80 in-lbs** (6.7 ft-lbs · 9.0 N·m)

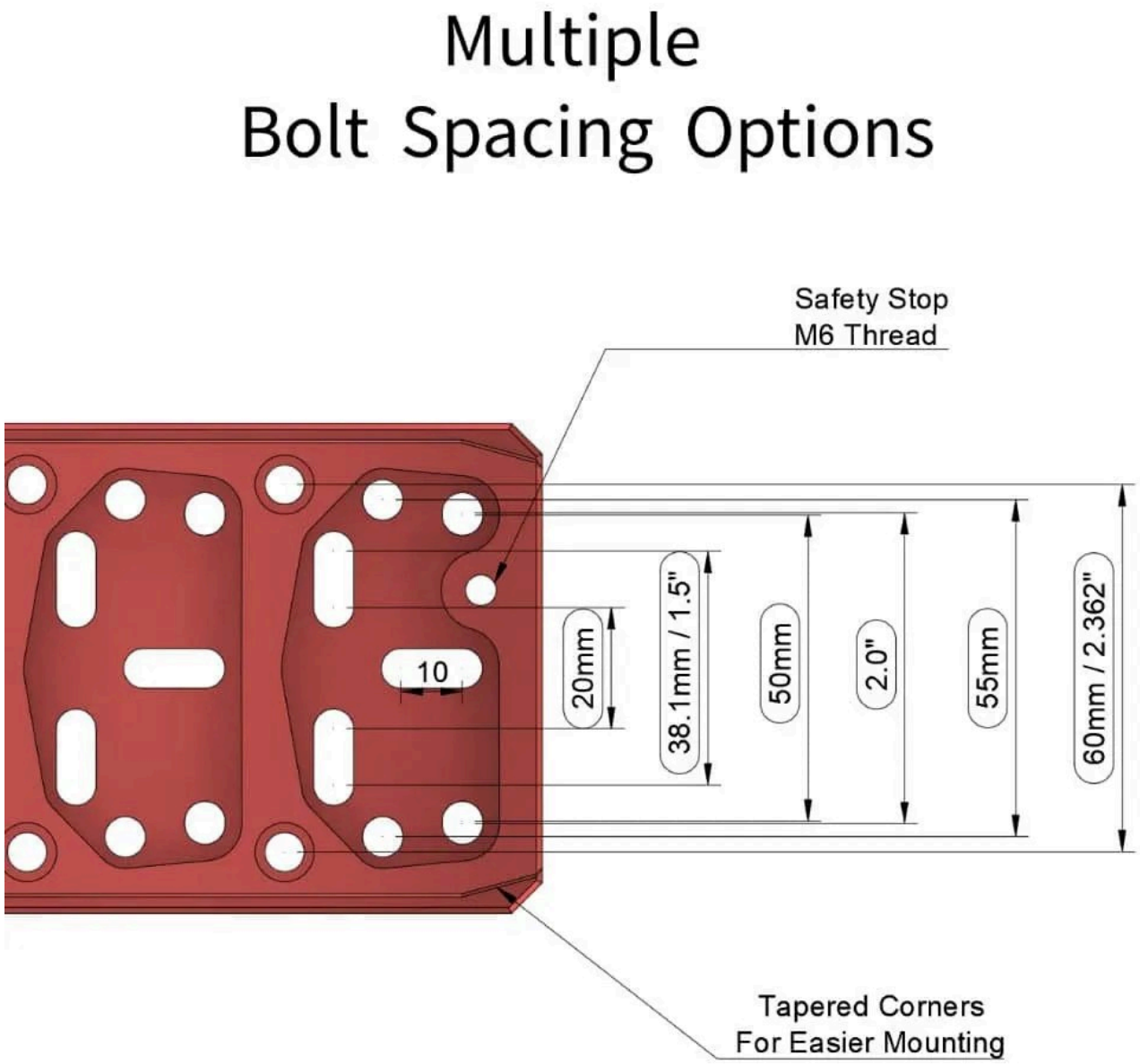
Carbon fiber composite dovetails: put an M6 washer under each bolt head. Tighten evenly, a little at a time on each bolt. Titanium bolts: put a little anti-seize on the threads before fitting.

Watch it in 3D

Scan the code to watch these steps as a 3D film, or go to **rouzastro.com/how-it-goes-together/**

Dovetail bars: lengths and weights

Ring hole spacing options



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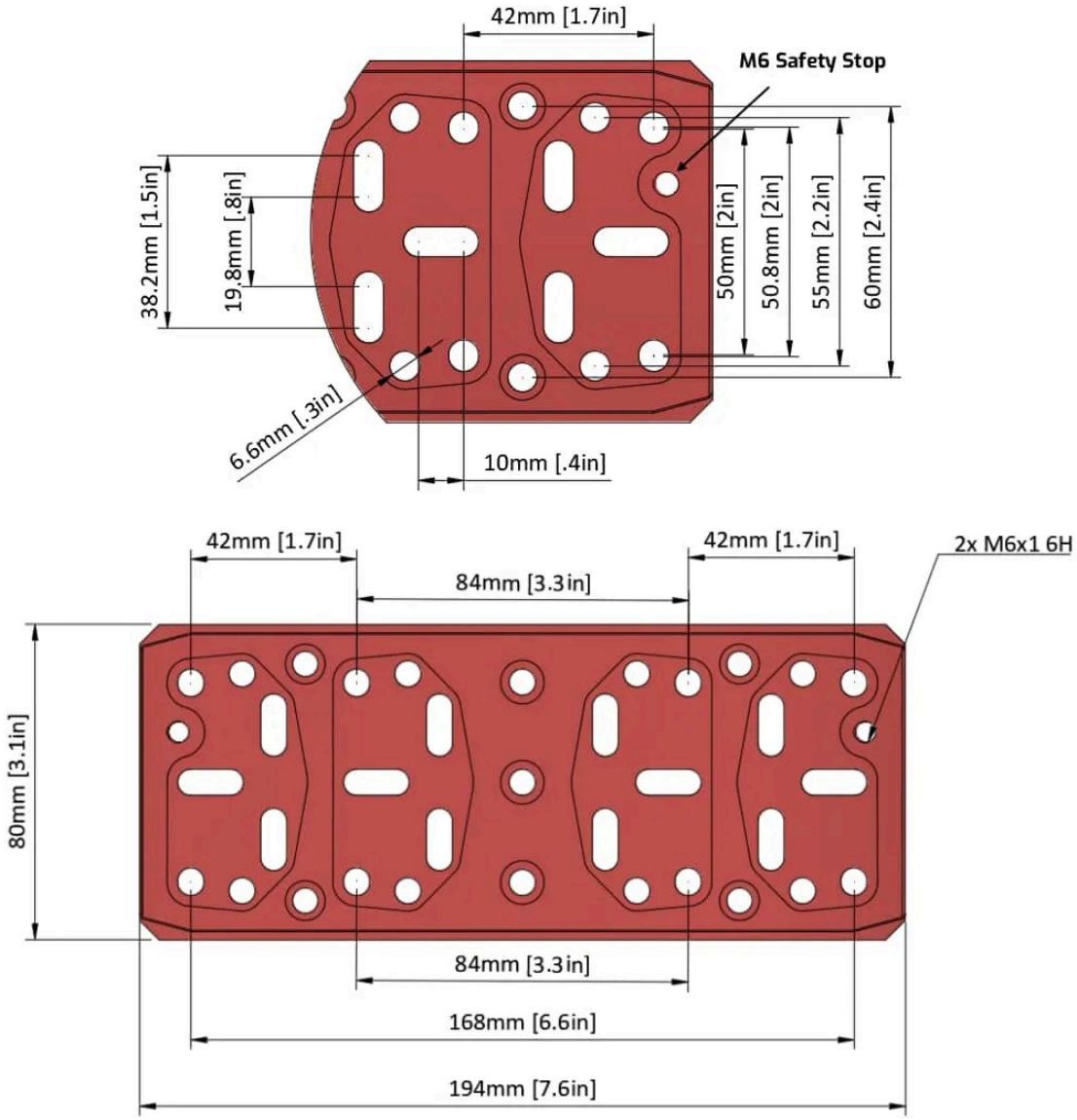
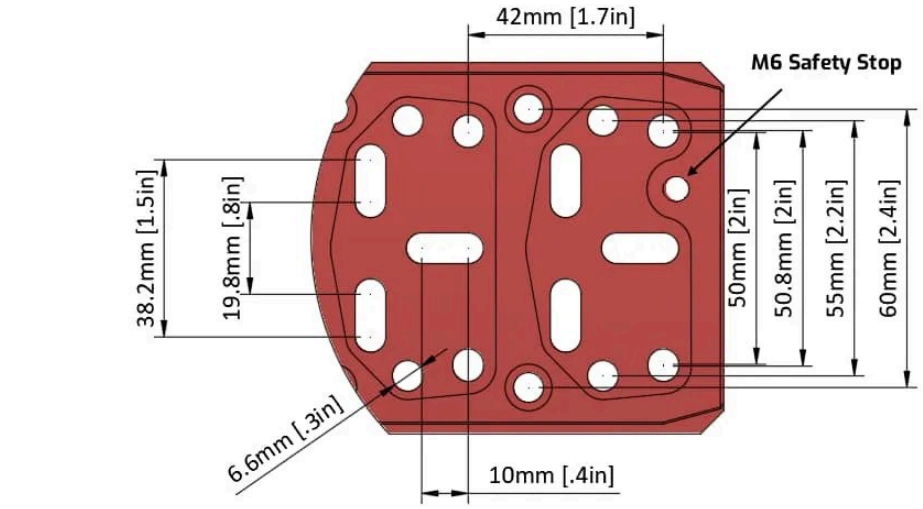
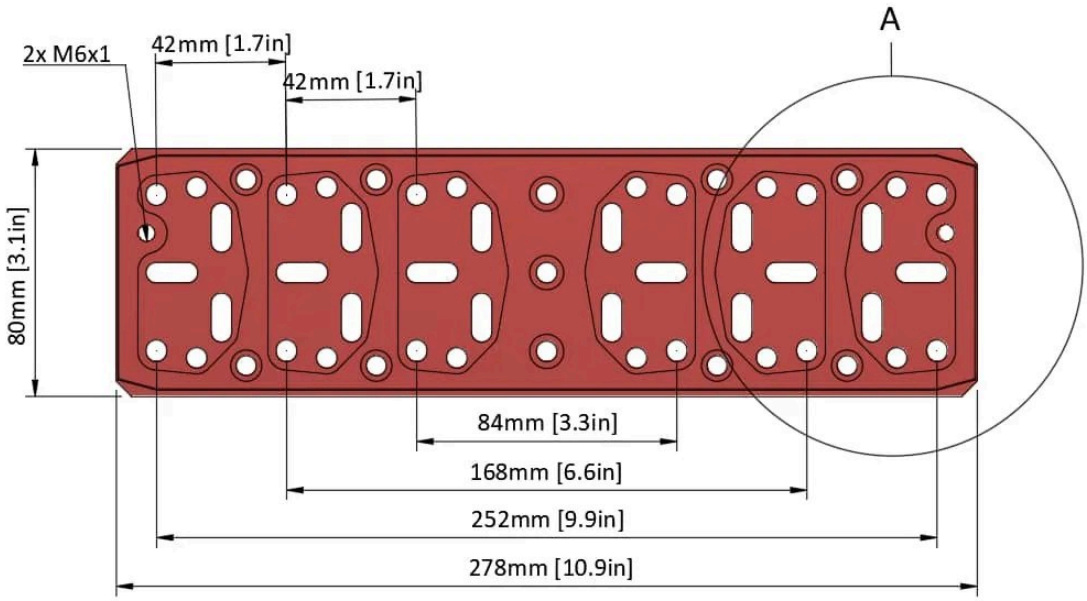
8 inch (194mm) Losmandy Type Dovetail



Rouz Astro

11 inch (278mm) Losmandy Type Dovetail