Urban Toolworks Angle Setting Jig User Manual

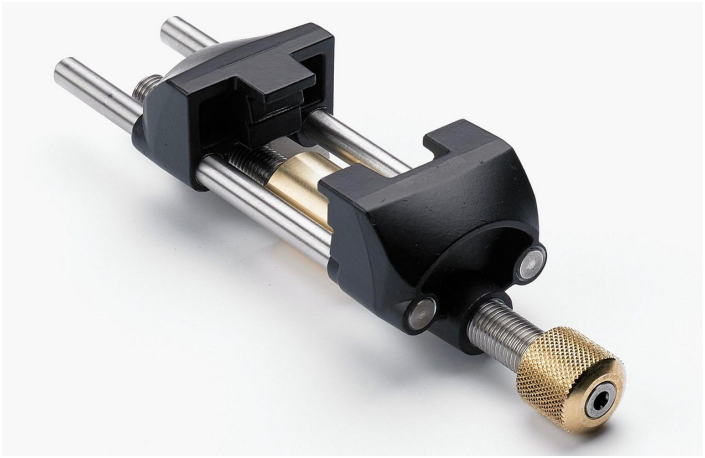
Thank you for purchasing the Urban Toolworks Angle Setting Jig. This manual will guide you through using the device to achieve flawless repeatability of sharpening angles with your common blade sizes.

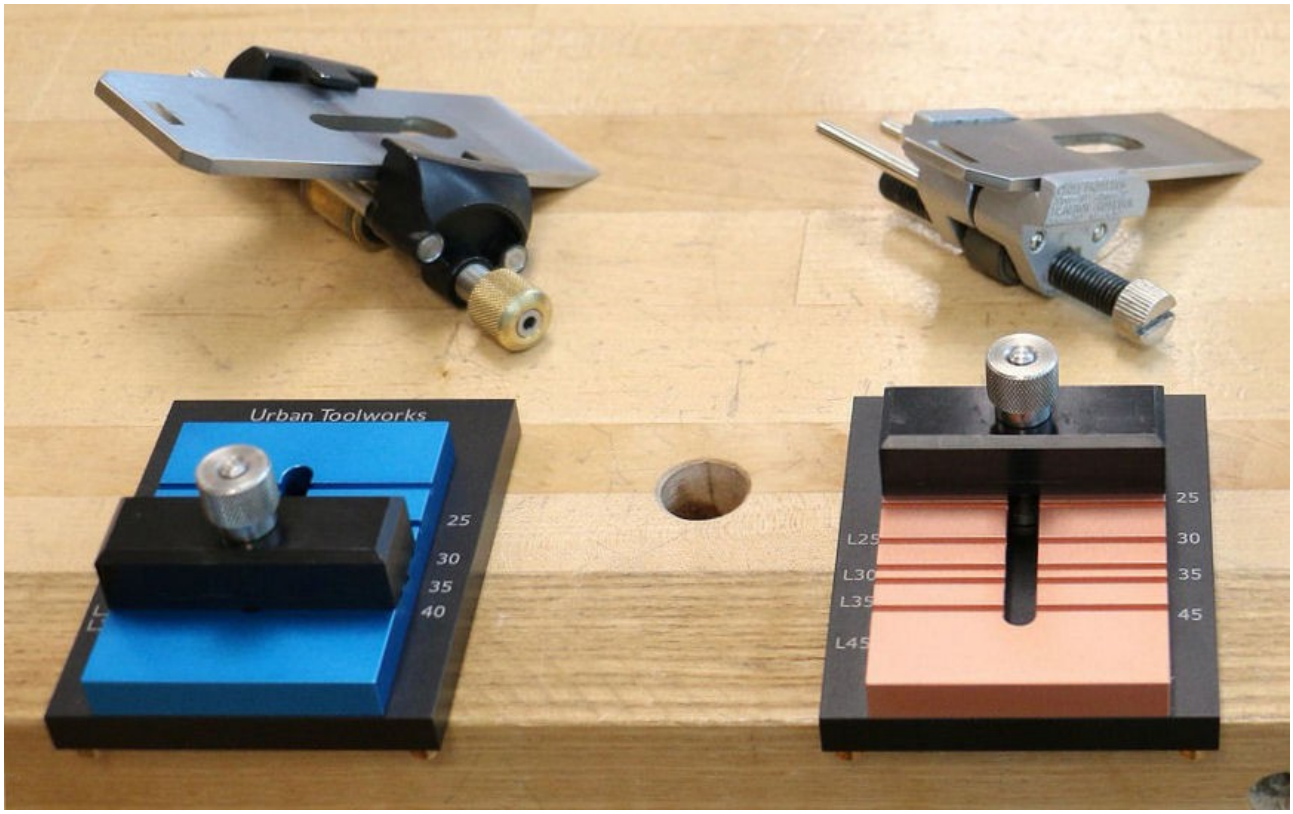
The Angle Setting Jig is made of quality materials that will provide many years of corrosion-free service. The materials are anodized aluminum, stainless steel, brass, and high-density polyethylene.

Please note that your device is specific to only one of the sharpening guides on the market, namely:
1. Eclipse Style Side Clamp Sharpening Guide *(our part number 502318)*
2. Veritas Side Clamp Sharpening Guide *(our part number 546211)*

Eclipse
If your sharpening guide is an Eclipse style guide, your Angle Setting Jig will be identified by the letter E under the Urban Toolworks name and will have the red gold colored adjustment block attached to a black base.

Veritas
If you are using the high quality Veritas side sharpening guide, your angle setting device will be identified by the letter LV under the Urban Toolworks name and will have the blue setting block attached to a black base.





Actual Angles vs. Blade Thickness
When Urban Toolworks designed the angle setting device for the two sharpening guides above, they decided to use a reference blade that was 3mm (0.125”) thick. This is a fairly common thickness for modern blades, which can be as thick as 6mm (0.250”) or as thin as 2mm (0.080”) or less.

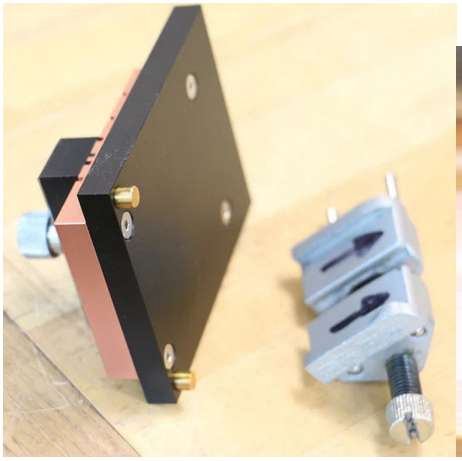
When using the Eclipse style sharpening guide, the distance the blade edge projects from the front of the sharpening guide for a particular angle varies with the thickness of the blade. This is why the angles are given for a 3mm (0.125”) thick blade.

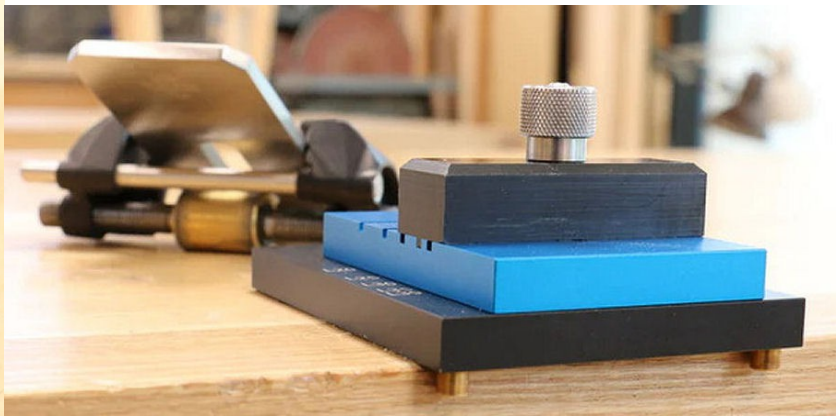
This variation in angle as the blade thickness varies is not a problem with most blades when using the Veritas sharpening guide.

Angles can have a tolerance of approximately ±1°.

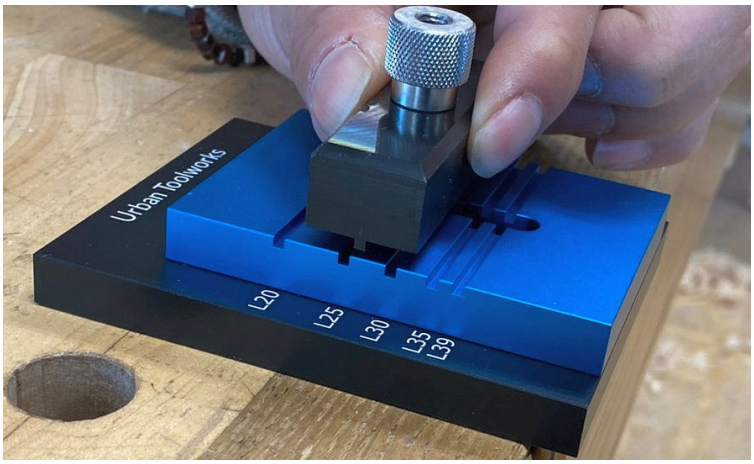
ATTENTION
Both the Eclipse and Veritas style guides have two levels of jaws to accommodate blades of different widths. The angle setting devices therefore have two scales, on the right the one to set the angle when using the upper jaw, on the left when using the lower jaw (L=lower).

Let’s look at using the Angle Setting jig





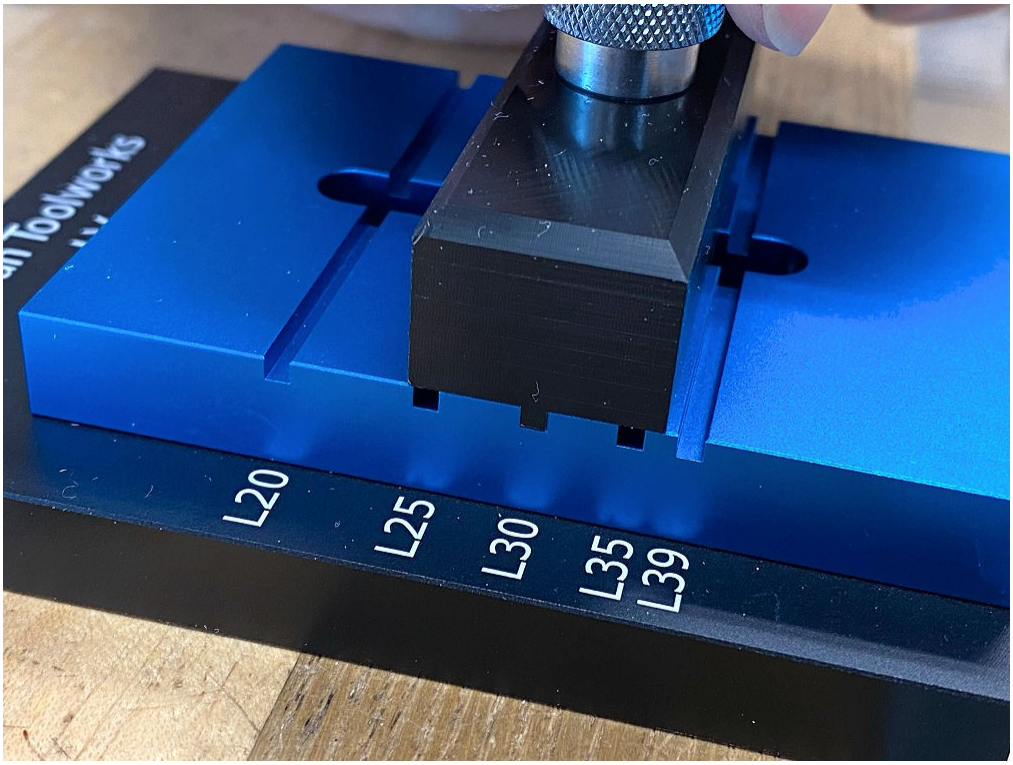
Setting honing angles
On top is the user-adjustable stop block (black) and underneath are two stop pins to aid in setting. To set the blade to be sharpened at a particular angle, loosen the stainless steel knurled nut enough to allow the black stop block to be moved to align its center line with the desired angle on the black base. The distance between the face of the black stop and the edge of the jig is the throw distance to achieve that angle.



When setting the throw distance, be sure to firmly engage the blade edge against the blade stop and keep the blade flat against the colored setting plate as in the image below.

PRO TIP
When placing the blade in the guide, first lightly clamp the blade in place with a projection distance much less than the desired projection distance.
Then firmly place the blade on the colored upper adjustment block and with the sharpening guide firmly pressed against the adjustment block, then without loosening the sharpening guide slide the blade forward to stop it against the stop block.
Now tighten the blade firmly in the sharpening guide.

Please note that when using the lower jaws in a Veritas or Eclipse sharpening guide, you must set the stop block at the angles indicated with the L prefix.



For users of the Veritas Honing Guide
Urban Toolworks designed the Veritas Angle Adjuster, we found that the lower jaws had a more precise maximum angle of 39° rather than 40°. At 40° the jaws of the sharpening guide would be abraded by the stone.

A note on securing the blade in your honing guide
While you should follow the manufacturer's guidelines, Urban Toolworks recommends the following: With Veritas, DO NOT use a screwdriver or WORSE EVEN pliers to firmly tighten the blade into the sharpening guide - it's simply not necessary.

If the blade does not sit tight after you tighten it by hand, then it is not parallel and this is NOT a fault with the sharpening guide but rather with the blade. If possible, grind the blade to make the two sides parallel or use a layer or two of tape to get a parallel grip on the blade.

HOWEVER

If you have an Eclipse style sharpening guide, you may find it helpful to tighten the guide with a screwdriver since the sharpening guide does not hold smooth-sided blades very well. To avoid injury if the screwdriver pops out, we recommend using a short screwdriver.