



ZX5 V Notch Blade Mechanical Setup

How to mechanically set the V notches on a ZX5.

 Difficulty Easy

 Duration 30 minute(s)

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Comments


Introduction

On previous models the V notch separation was set via the software. This could be quite time consuming and required multiple tests and measurements to get it right. Four variables were used for each V notch and it is not straight-forward to get the shape, depth and position correct.

On the new ZX5 the **shape** of the V notch is set mechanically and once set it should never need changed again, but remember that some customers sharpen their V notch blades instead of replacing them. The following was carried out on the rear V notches using some standard outerframe but the process is exactly the same for the front. Once set you can use the usual software settings to increase/decrease depth and to align back to back.

The overall process is:

1. Set the shape of the V notch (Mechanical adjustment)
2. Set the Depth of the V notch (Software adjustment in Notching Tab)
3. Set the Position of the V notch (Software adjustment in Notching Tab)

 ...As you WILL have to stand inside the machining centre I would advise the use of a bump cap and gloves as you will be in close proximity to the V notch blades and tooling.



Use protective
eyewear



Use protective
handwear



Use protective
headgear

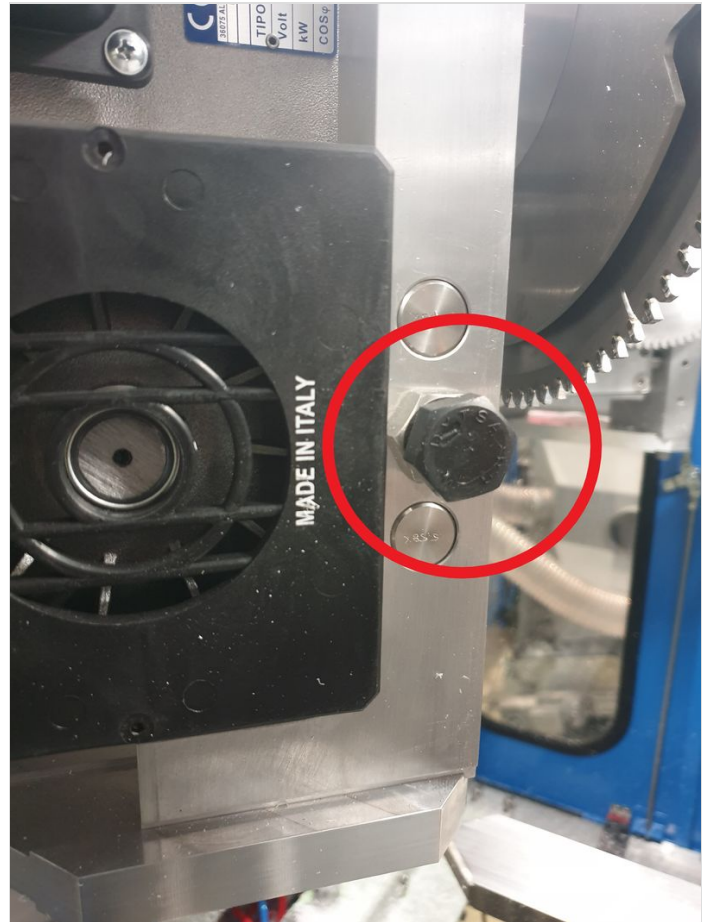
Step 1 - Carry out first V notch test

This step isn't really required, I personally like to do it just to see how far out we are to start with, and for the purpose of this tutorial it shows how quick it is to go from this to perfect.

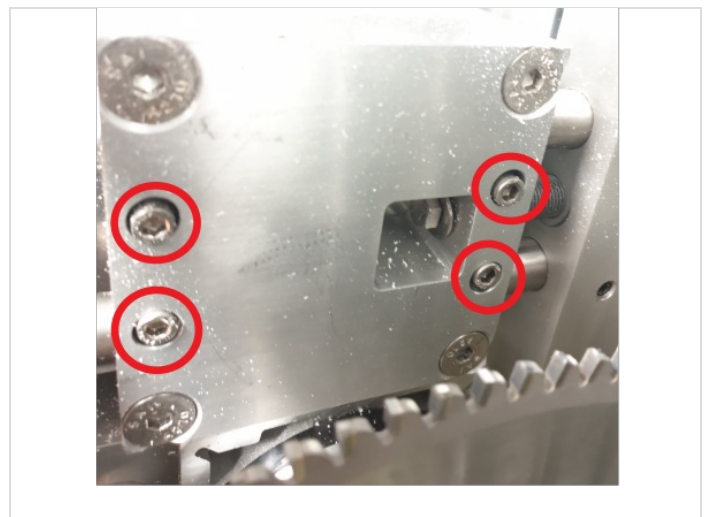
i ...Use a regular sized V notch around 30mm wide for the test



Step 2 - Slacken off locking nut on rear of V notch assembly

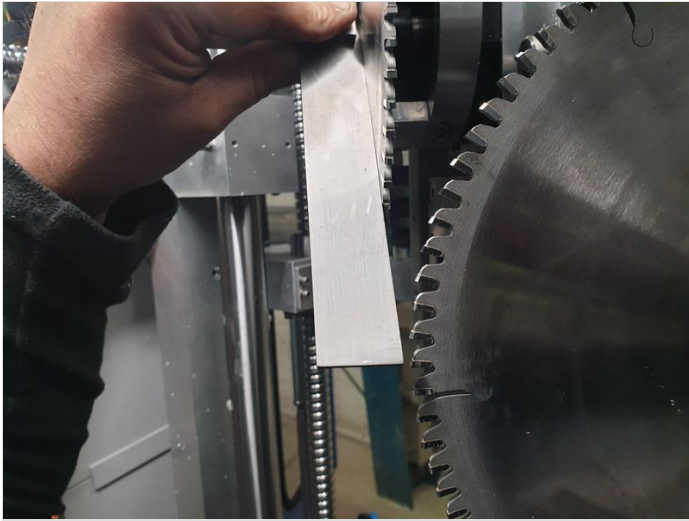


Step 3 - Slacken off four bolts on adjustment mechanism.



Step 4 - Check and set separation

Using a straight edge placed BETWEEN the teeth of the blade (W/I) you can see we have a gap around 2-3mm. On the opposite blade (W/O) we need to turn the setting bolt anti clockwise until the tips of the teeth just touch the straight edge, as seen in the second picture. If the tips of the teeth were overlapping we would need to increase separation by turning the adjusting bolt clockwise. Transfer the straight edge to the opposite blade (W/O) and adjust W/I as above.



Step 5 - Carry out second test V notch.

This step can be skipped but was left in to show how close you get after following the above.

Lock off the four retaining bolts followed by the locking nut.

We should now be pretty close with only a small pip left in the centre of the notch.



Step 6 - Another 1/4 to 1/2 turn removes the pip.

We can now repeat the process on the front V notches.



Step 7 - Setting V Notch depth and position along bar

https://stuga.dokit.app/wiki/ZX5_Adjusting_V_Notch_Depth_and_Position
