



OPEN SOURCE CNC TELE GUITAR

TELE GUITAR BUILD

STEPS ARE LIKE FOLLOW:

- ▶ Body
- ▶ Neck
- ▶ Fretboard
- ▶ Pickguard (Optional)

WHERE CAN I GET GOOD QUALITY BITS ?

I RECOMMEND FRAISER TOOLS BITS

- ▶ Top notch quality
- ▶ Longer live and something you can relay on
- ▶ Super sharp to avoid any wood tearout
- ▶ You can push them to the limit and do you project faster.

Please notice that all the tools we did used in this project are from Fraisertools, each tools has its own link you can click on it and buy it if you want, otherwise you can buy your bits from other companies, but please be aware that you have to change the g-code to match the feed and speed of the bits that you will buy.

THE TOOLS YOU WILL NEED TO DO THIS BUILD

- ▶ 6mm Flat End Bit ([303.060.6D](#))
- ▶ 6mm Ball Nose Bit ([313.060.6D](#))
- ▶ 35mm Flattening Bit ([P409.350.8D](#))
- ▶ 90degree Multifunction V-Grooving Bit ([P415.230.8D](#))
- ▶ 0.56 mm Tungsten Microbit ([317.005.3D](#))
- ▶ 5mm Ball Nose bit ([any Nose Ball Bit less than 5mm will do the job](#))

A 6MM FLAT END BIT IS USED HERE ([303.060.6D](#))

HERE IS THE FILES RELATED TO EACH STEP

- ▶ Pickups & Neck Pocketing also the Body-Contour all can be made with a flat end mill bit.
- ▶ If the body blank has a thickness more than 44.45mm then you have to flatten it first to get the right thickness, and doing that would be by using the 35mm Tornado Bit.
- ▶ Before doing the Conturing it's better to mark the holes with the V bit, then it's easier to find where to drill later on.

YOU CAN DOWNLOAD THE FILES BY CLICKING ON THE STEP YOU WANT TO DO

G-CODE FILES (BODY)

- ▶ Pickups & Neck Pocketing
- ▶ Bridge Marking Holes
- ▶ Body Contouring

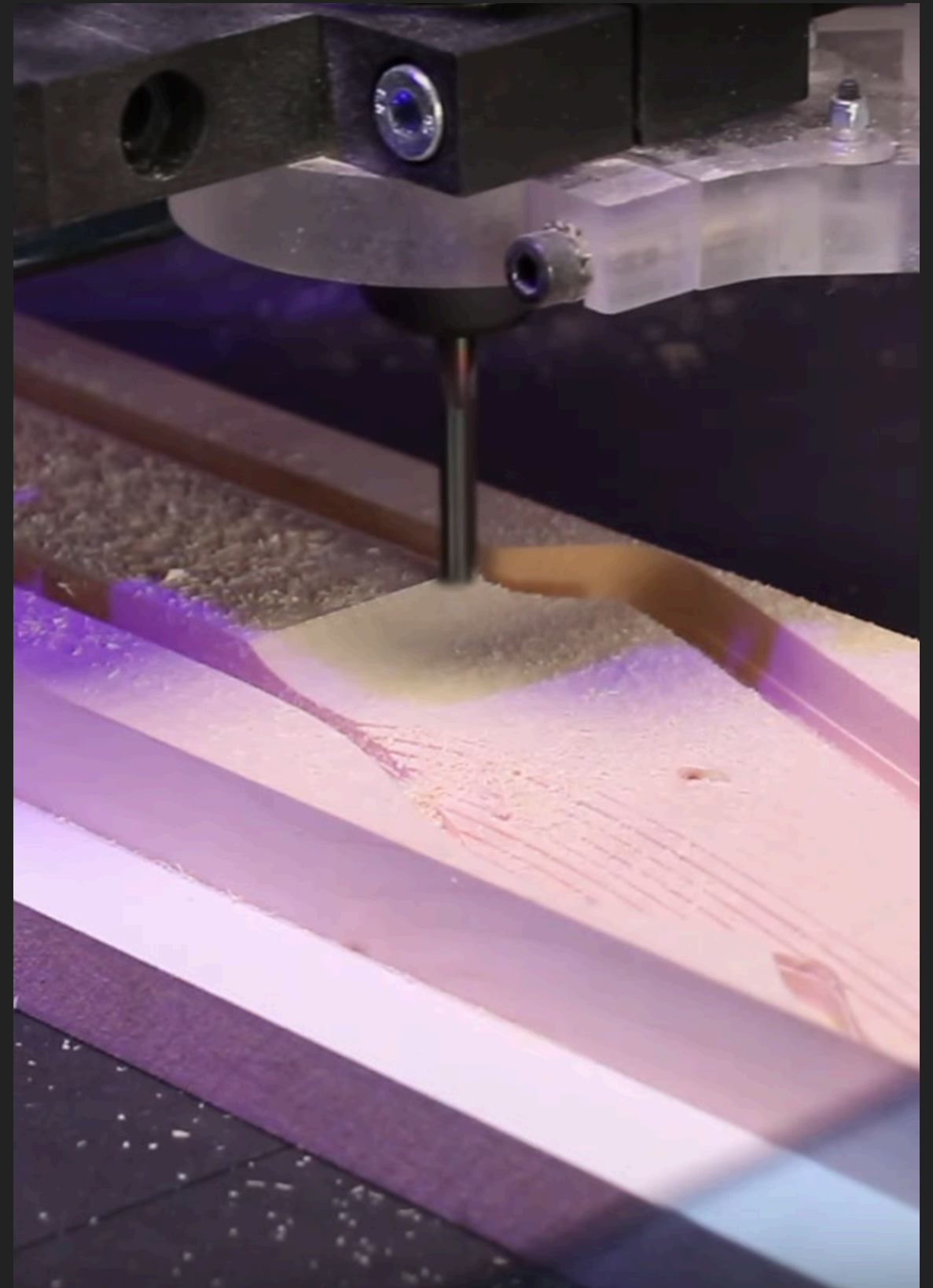
THESE STEPS MADE USING THE 6MM
FLAT END BIT.



YOU CAN DOWNLOAD THE FILES BY CLICKING ON THE STEP YOU WANT TO DO

G-CODE FILES (NECK FRONT)

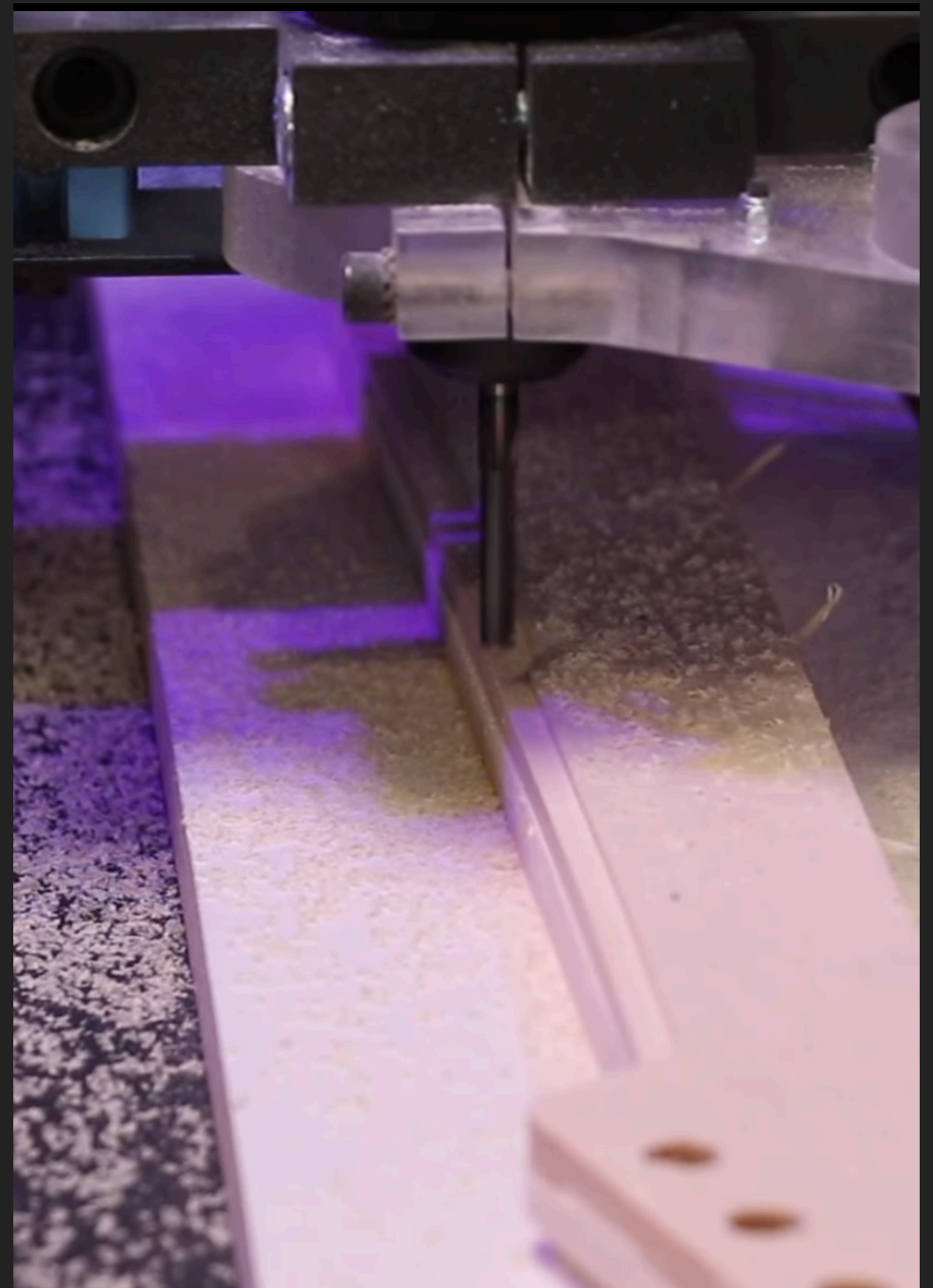
- ▶ Trussrod Channel (5mm Flat End Bit)
- ▶ 1/3 of the Contouring, Headstock Raw and fine shaping. (All in one file and by using 6mm Flat End bit)



YOU CAN DOWNLOAD THE FILES BY CLICKING ON THE STEP YOU WANT TO DO

G-CODE FILES (NECK BACK)

- ▶ Full contouring with raw profiling the Neck
- ▶ Fine Neck-Profile (6mm Ball Nose Bit)
- ▶ Flattening The Back of the headstock and the bottom of the neck.



YOU CAN DOWNLOAD THE FILES BY CLICKING ON THE STEP YOU WANT TO DO

G-CODE FILES (FRETBOARD)

- ▶ Full contouring (6mm Flat end Bit)
- ▶ Radiusing the Fretboard (6mm Flat end Bit)
- ▶ Fret Slotting (0.56 mm Tungsten Microbit)



ADDITIONAL INFORMATIONS ONLY FOR MEKANIKA TEAM :

- ▶ Dear Team, Please notice that the files that I sent you in a separated folders need to be upload to the website or some kind of cloud and linked to the ,Steps' that I organised.
- ▶ You can use any screen shots that you want from the video of the Tele Video ([Link](#))
- ▶ I will send you the master file of this presentation to give you the possibility to edit anything you want.

Thank you for you time and if there is something else you can write me anytime.