TriLor® FAQ

MILLING QUESTIONS:

We are currently using imes-icore (350i, 550i, and 650i), can I mill TriLor® with the imes-icore?

Yes, the imes-icore enjoys robust spindles that can certainly handle the TriLor materials. They can mill either dry or wet, does not matter for the material, but wet may extend the life of the tooling.

Can you use Roland milling units with the TriLor?

Roland DGA has been validated to mill the TriLor ® material, specifically validated for the Roland DWX-52D powered by CIMSYSTEM- MillBox Version 2019 03-11-2020. "The testing of Trilor material went very smooth and we are happy to report that we encountered no complications. The tools have shown no excessive wear and the restorations look similar in sharpness and quality."

I have a vhf milling machine, can I mill TriLor?

Vhf has validated the mill of TriLor on their milling machines and with the newest update in their CAM software, TriLor or (Fiberglass resins) will be an available strategy. vhf has a new tool specifically made for the milling of TriLor.

Are the K5 and the K5 Plus both validated for vhf and TriLor?

Yes, the K5 is validated for TriLor. The difference with the K5 and the K5 Plus, is that the K5 plus has an automatic puck changer, where the K5 is one disk at a time. Both machines are validated.

Can TriLor be milled with Amann Mill?

Amann has great mills and tend to lean towards a more closed protocol. You can mill with the carbide tools that you have, which will necessitate more frequent tooling change to properly mill TriLor®. We advise tooling change after each arch.

When using the Amann mill, select PMMA or Resin Composite mill strategy when milling TriLor. The only challenge at times is the speed of the AG spindle, which is fast and may bind to the composite material since the speed generates heat while grinding. **It is suggested to reduce the speed or even mill the TriLor wet to attempt and reduce heat** generation. Also, please ensure that there is at least 4mm space around the all on x bar while milling, this will help avoid any premature collisions with the tools and bar. Diamond tools will last longer and reduce any heat during milling, but are more costly, so carbide tooling can be used, but you will need to replace them more frequently

Can I mill TriLor on my Roland DWX-50 and DWX-50?

Yes, the DWX-50 and DWX-52 utilize the same spindle.

- Use Carbide Tools

Diamond-coated tools will generate more heat due to the fibers in the Trilor material. The diamond tools will work but will wear out faster. Using Carbide tools makes the most sense for your tooling ROI.

- Reduce Milling Speed

In your Vpanel, you will find an option for Milling Speed and Spindle Speed. Adjust your Milling Speed to 80% from 100%; this will move your tool at a slower rate into the material. The result will give you sharper and cleaner cuts.

- Use Trilor Material in the CAM

If you are using Sum3d as your CAM, you may not have Trilor as a material option. The newer version of Sum3d is called Millbox. It is much more user-friendly and has a robust line of the latest material strategies. You will also get faster calculation times and a broader ranger of indications that you can produce. If Trilor is not an option, select PMMA.