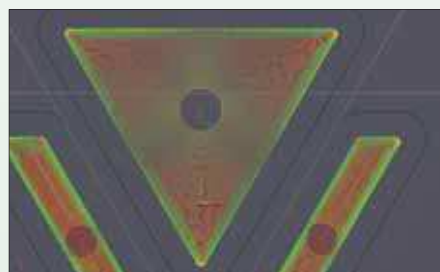
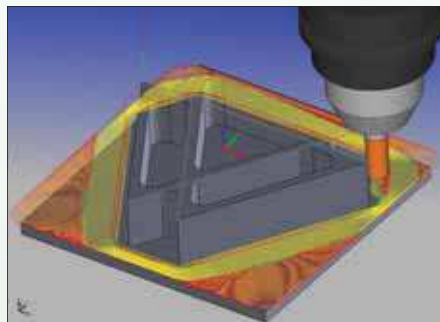
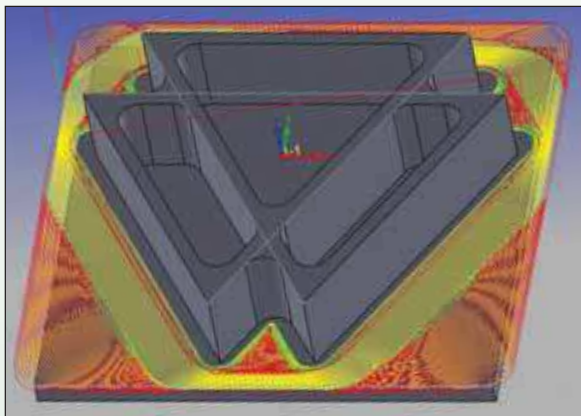


■ Dynamic Trochoidal Milling

- Transfer the basic idea control of chip thickness to dynamic processes.
- Dynamic adaption of feed in relation to ae and wrap angle through an intelligent CAM Software.
- Using helix interpolation, D-lanes, and morphing cycles.



■ Requirements

Static trochoidal milling

- Dynamic machine.
- CNC Programme.
- Modern tool.
- Cutting data for trochoidal machining.

Dynamic trochoidal milling

- Dynamic CNC machine.
- CAD/CAM optimisation software.
- Modern tool.
- Cutting data for trochoidal machining.

■ Benefits

- Constant chip thickness.
- Reduced arc/angle engagement (wrap angle).
- Tremendously reduced load on the cutting edge.
- Reduced temperature during the machining process.
- Higher cutting speed and feed per tooth possible.
- Reduced cycle time and increased tool life.
- Better chip evacuation.
- Better usage of the tool length.
- Less torque and power requirements for the machine.
- Less risk of spindle damages through torque fluctuation and reduced torque peaks caused by conventional milling processes.