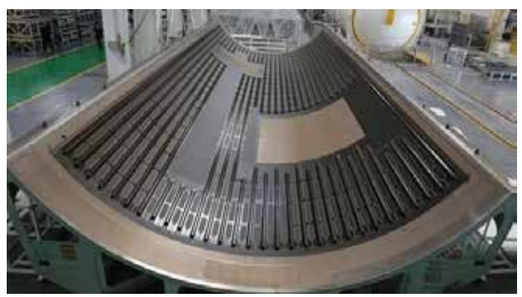
Machining CARBON FIBER COMPOSITE (HOLES)

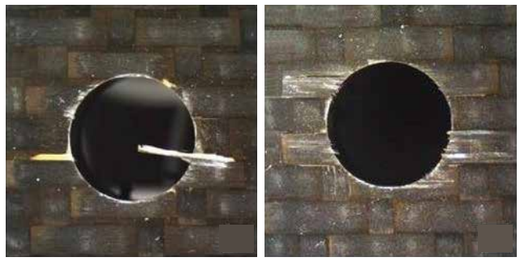
Conprofe Ultrasonic Tool Holder +
Conprofe Solid PCD Micro Drill



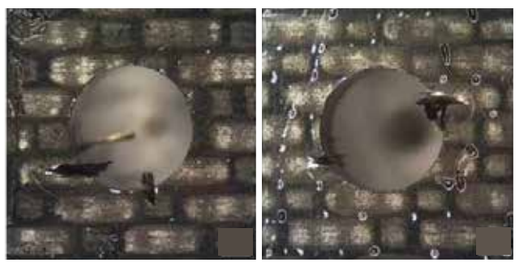
Carbon Fiber

Conventional Machining

Entry hole



Exit hole

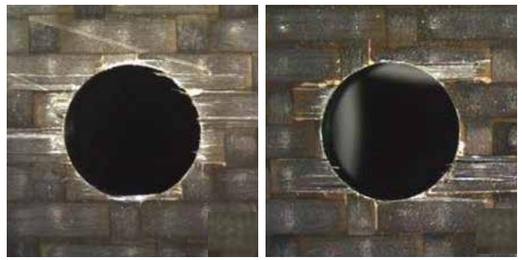


· Serious tool wear
· Short tool life
· Serious burrs

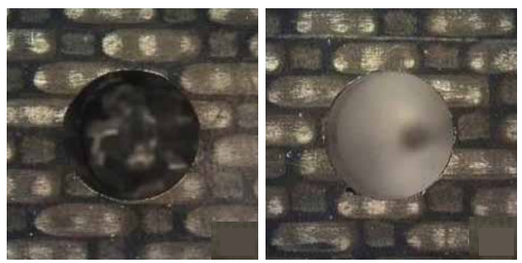
· Low efficiency
· Burr width of 0.44mm

Ultrasonic Machining System + Solid PCD Micro-drill

Entry hole



Exit hole

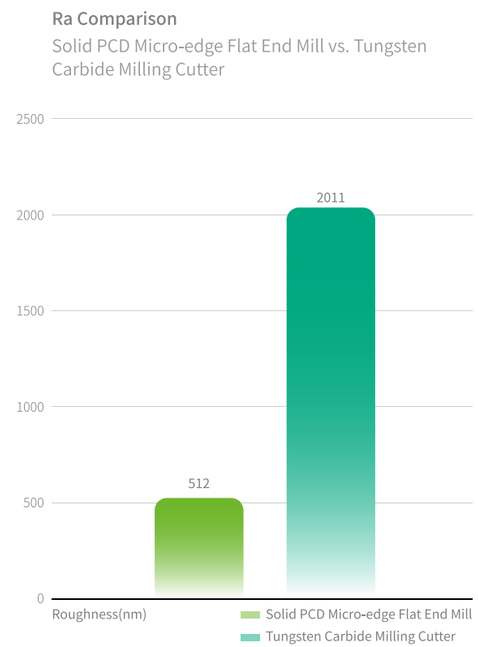


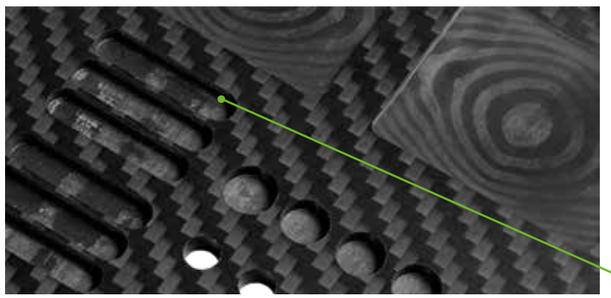
· Burrs on the hole edges greatly reduced
· Surface quality of the holes up by 300%

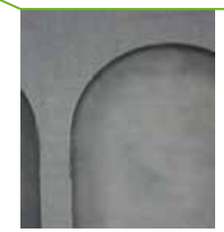
· No laminating or scorching
· Burr width of 0.08mm

Machining CARBON FIBER COMPOSITE (BLIND GROOVES)

Conprofe Solid PCD Micro-edge Flat End Mill







By Conprofe Solid
PCD Micro-edge Flat End Mill

Slight burrs formed on the notch edge No chipping on t he groove wall

By Tungsten Carbide
Milling Cutter

Serious burrs formed on the notch edge Chippings on the groove wall