Inconel 718 Milling example

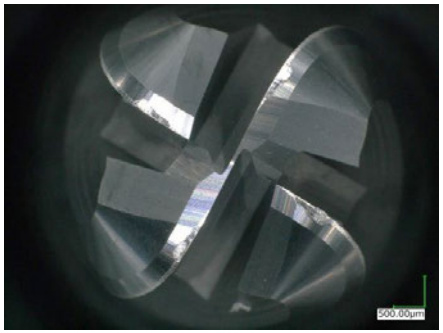
Tool	: CRRS 4060-15-18 (ϕ6 x CR1.5 x 18)
Work material	: Inconel 718
Pocket size	: 38 x 28 x 3 mm
Coolant	: Water soluble

～ Milling condition ～

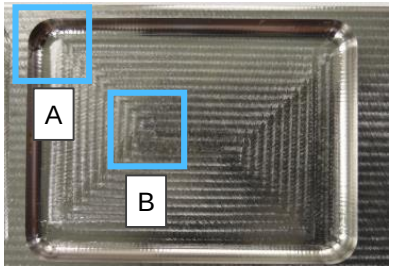
Spindle Speed (min^{-1})	Feed Rate (mm/min)	a_p (mm)	a_e (mm)	Cycle Time (min)
1,735	815	0.06	1.08	62.5

There were no problems such as chattering vibration. No burrs or chattering was seen on the work.
There is chipping on the bottom edge caused by the tool wear.
Since it processed Inconel for 60 min, the tool damage was reasonable .

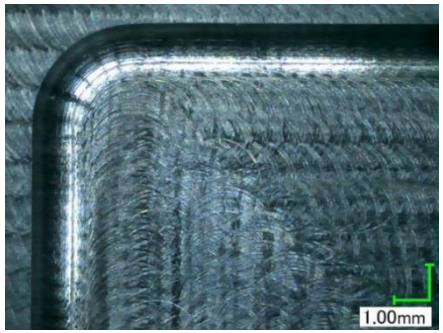
Bottom edge



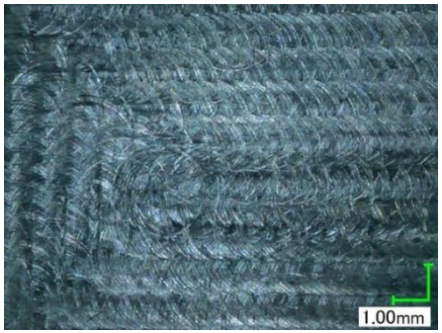
Work surface(Whole)



Work surface A

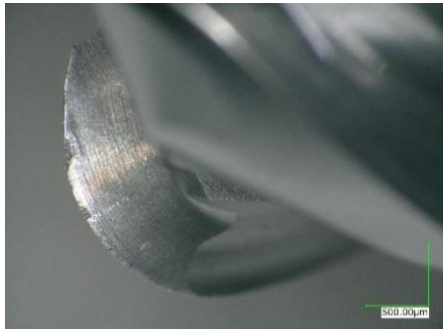


Work surface B



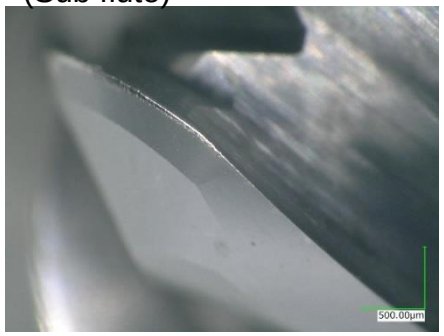
Rake face (Main flute)

Rake face (Sub flute)



Peripheral relief face (Main flute)

Peripheral relief face (Sub flute)



Inconel 718 Milling example

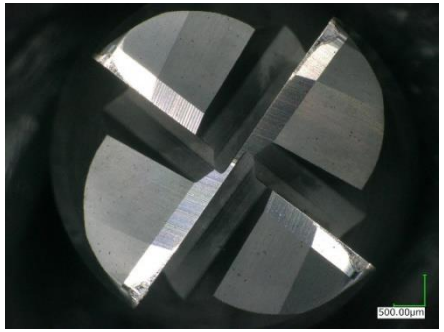
Tool	: CRRS 4060-03-18 (ϕ6 x CR0.3 x 18)
Work material	: Inconel 718
Pocket size	: 28 x 28 x 3 mm
Coolant	: Water soluble

～ Milling condition ～

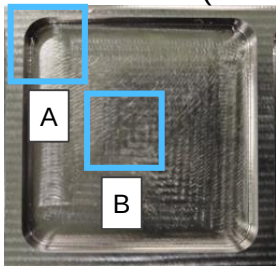
Spindle Speed (min^{-1})	Feed Rate (mm/min)	a_p (mm)	a_e (mm)	Cycle Time (min)
1,735	815	0.05	0.98	58

There were no problems such as chattering vibration. No burrs or chattering was seen on the work.
There is no chipping on the rake face and the peripheral relief face, and the tool wear was normal.

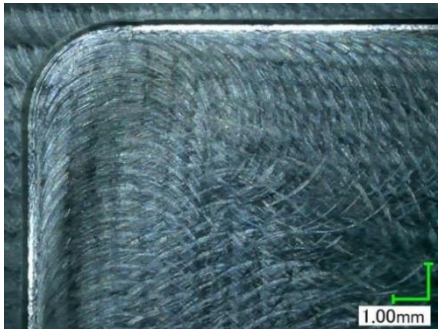
Bottom edge



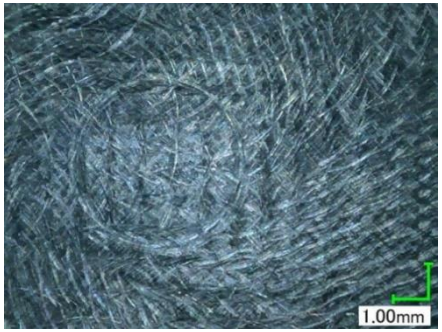
Work surface(Whole)



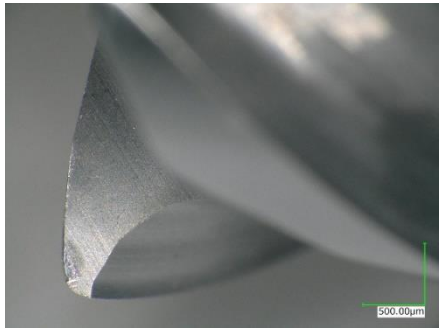
Work surface A



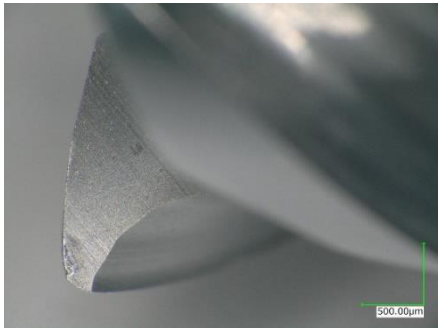
Work surface B



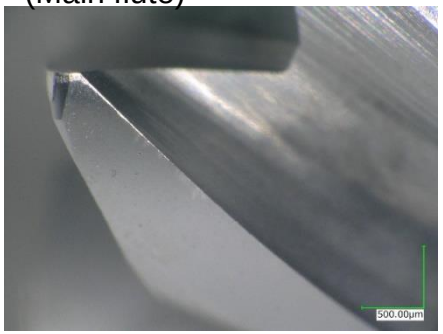
Rake face (Main flute)



Rake face (Sub flute)



Peripheral relief face (Main flute)



Peripheral relief face (Sub flute)