



吳氏碳化鎢股份有限公司
WU CARBIDE CORPORATION



無極碳纖銑刀

WU-JI Specialized Tool

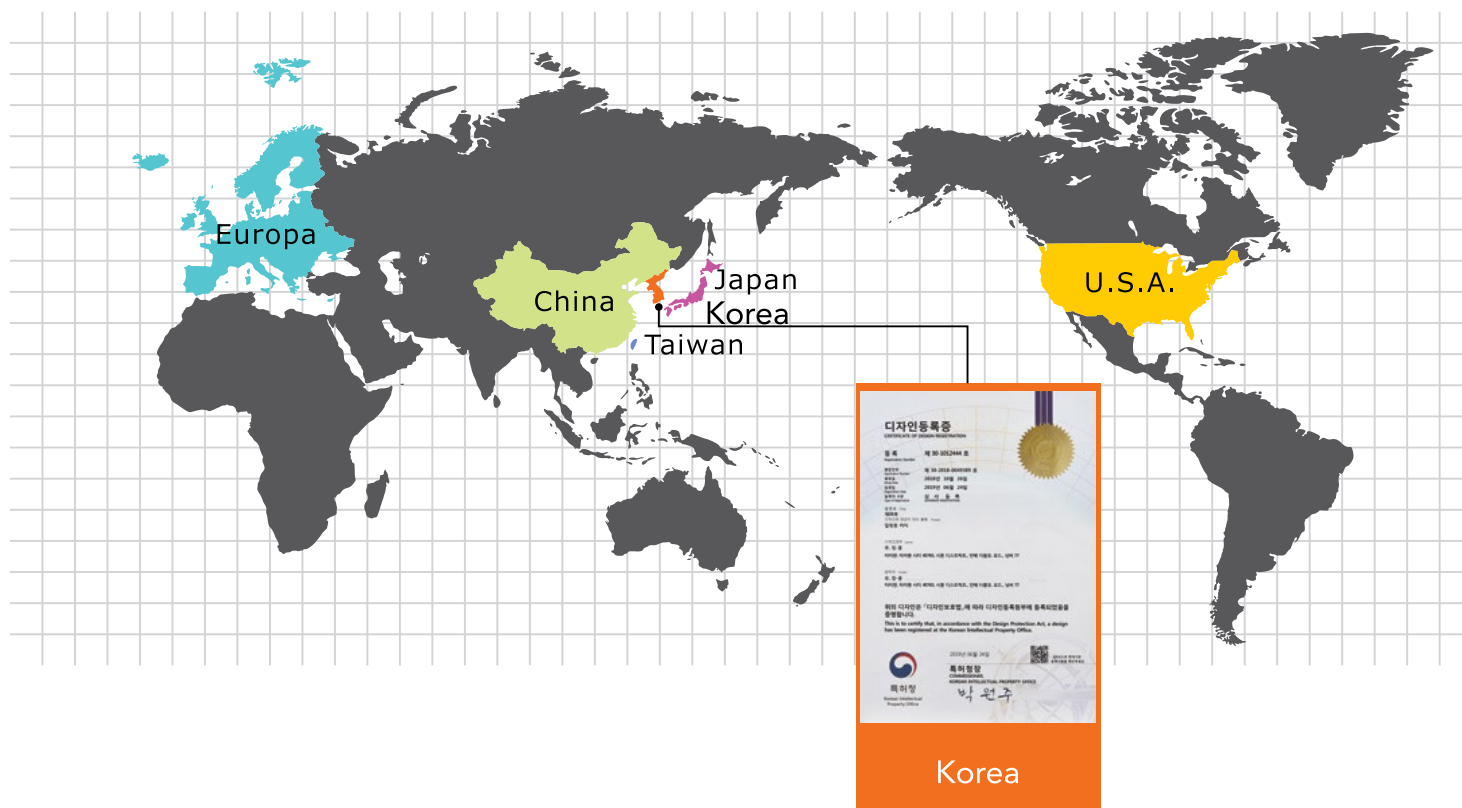
For CFRP, CERTP, GFRP.

Development concept

High modulus carbon fiber was introduced about 60 years ago. Since then fiber composite material have been extensively used in sport goods, IT equipment and medical equipment. This material is also becoming increasingly common in the aerospace, automotive, bicycle and rail industries.

The WU-JI product series revolutionized from the cutting tool concept. Instead of focus on tool edge wear , the WU-JI product series focus on minimize burrs occurred and suppress delamination of workpiece. This results in a breakthrough tool design specialized for CFRP manufacturing.

Patent right



U.S.A.



Europa



Japan



China



Taiwan

Product characteristics

In CFRP processing conventional tool makers use CVD diamond coating(chemical vapor deposition) to improve wear resistance.By building upon our experience in developing new tools for chop fiber, we use special geometric design.

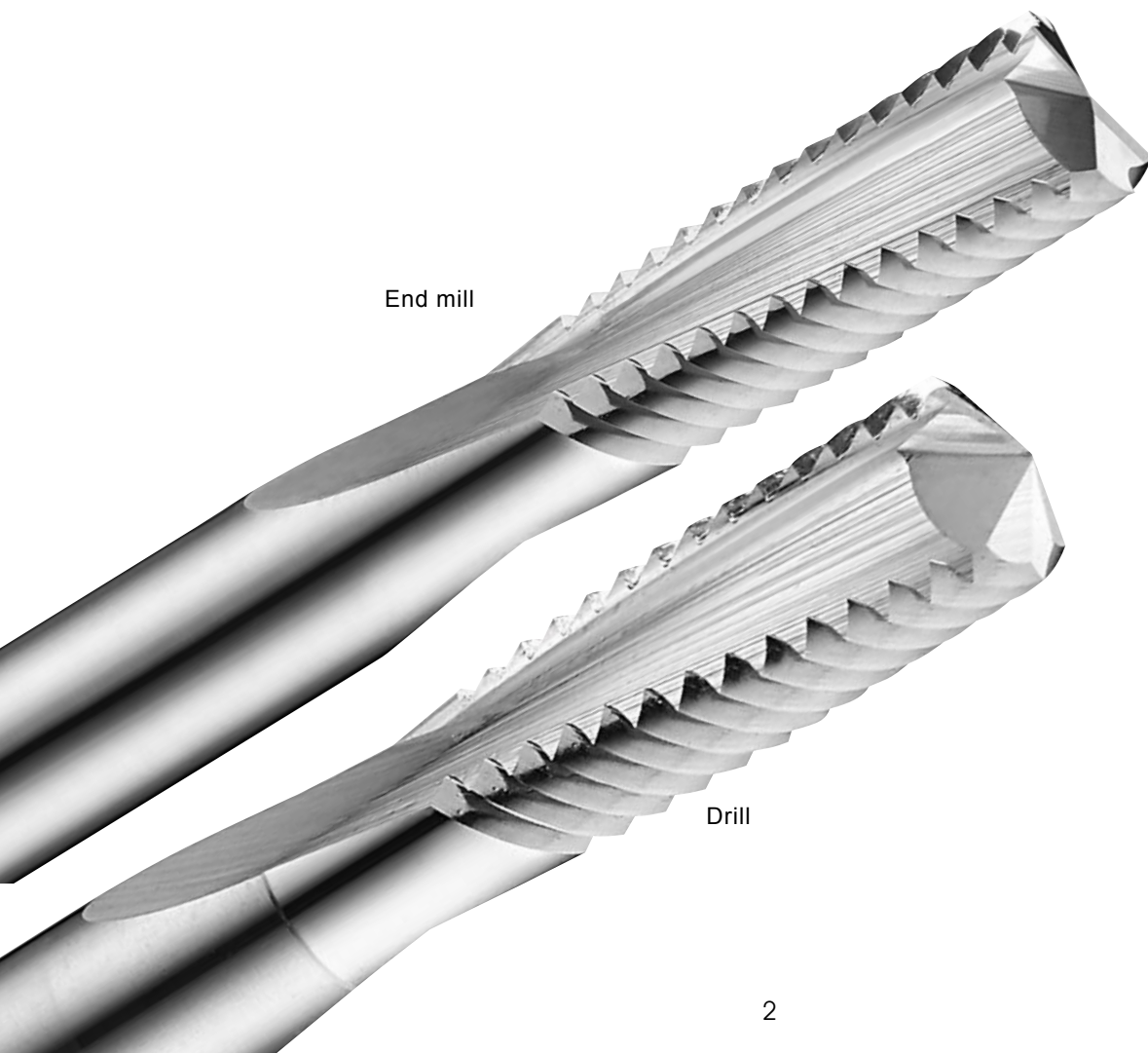
The spiral wave design of our cutting tool(awarded international patents) can suppress the delamination of workpiece. The

geometric design of our cutting tool is more effective at suppressing burrs occurrence than CFRP tools from other companies.

To best meet the needs of our users, we aim to continuously innovate to provide high precision, high efficiency, and high quality tool which enhances the manufacturing productivity of CFRP materials.

Special Design

1. Adopting tungsten carbide special for fiber reinforced materials which has the best wear-resistance.
2. Two flutes design has good chip evacuation.

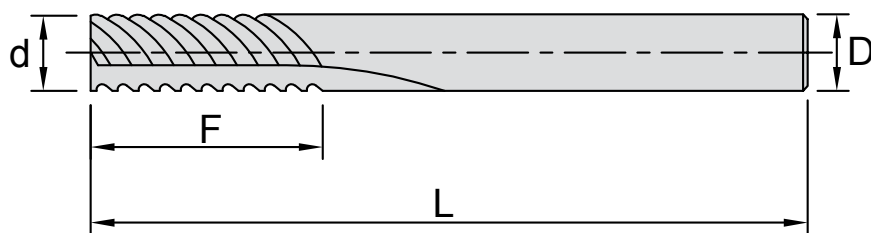


End mill

Drill



Product Series

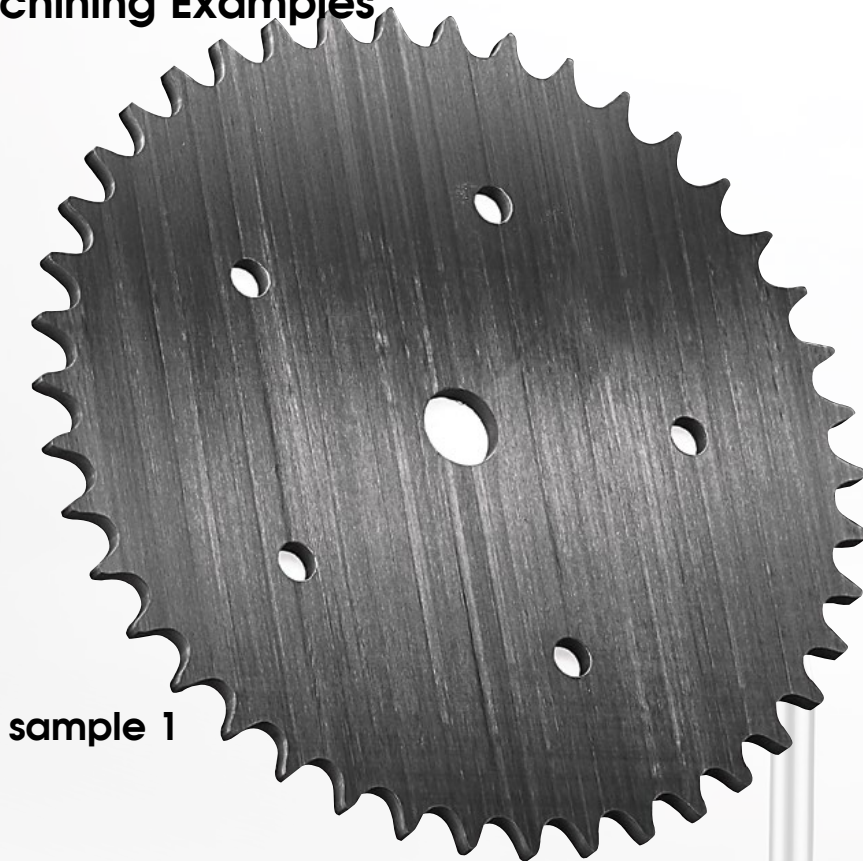


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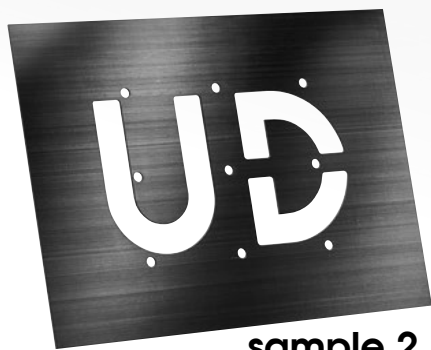
刃徑 d	刃長 (mm) F	全長 (mm) L	柄徑 D	刃數 flutes
0.4~1.5	dx1.5	38	Ø3.175	2
1~4	dx1.5	50	Ø4	2
4	dx1.5	50	Ø6	2
5	dx1.5	60	Ø6	2
6	dx1.5	60	Ø6	2
8	dx1.5	75	Ø8	2
10	dx1.5	75	Ø10	2
12	dx1.5	100	Ø12	2

- Produce by order is available.

Machining Examples



sample 1



sample 2



sample 3



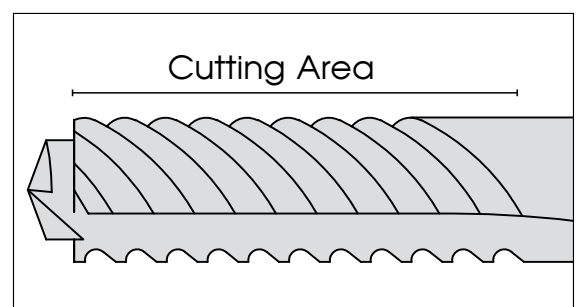
sample 4



sample 5

	sample 1	sample 2	sample 3	sample 4	sample 5
Tool	WU-JI	WU-JI	WU-JI	WU-JI	WU-JI
Flute	2	2	2	2	2
Size	Ø4.0mm	Ø4.0mm	Ø4.0mm	Ø6.0mm	Ø6.0mm
Work Material	UD	UD	STF	CFRP	UD+Aluminum

Advantage
Minimize burrs occurred and delamination
Excellent Surface
Good chip evacuation
Longer life time
Don't need back taper





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