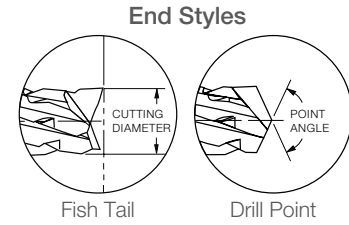
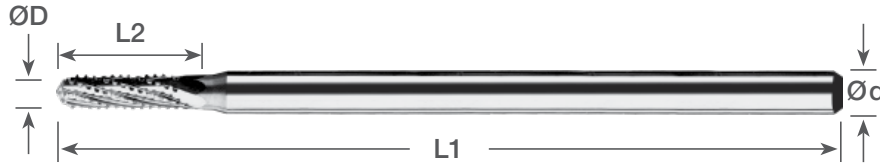


# UP CUT

CHIPBREAKER PATTERN ROUTER BITS  
CFRP, FIBERGLASS, AND COMPOSITE MATERIALS

**1/32" - 1/8" DIAMETER**  
**0.80mm - 8.00mm DIAMETER**  
Sub Micron Grain Carbide  
Chips Exhausted Upwards  
For Finer Part Edge Finishes  
DLC is Amorphous Diamond



## UP CUT (Inch Sizes)

Uncoated		DLC* Coating		CVD Diamond		Dimensions (in)				End Style
Part Number	Stock	Part Number	Stock	Part Number	Stock	ØD	Ød	L1	L2	
2320-0312.255F	●	2320-0312D255F	●	2320-0312V255F	●	1/32	1/8	1 1/2	0.255	Fish Tail
2320-0312.255D	●	2320-0312D255D	●	2320-0312V255D	●	1/32	1/8	1 1/2	0.255	Drill Point
2320-0469.255F	●	2320-0469D255F	●	2320-0469V255F	●	3/64	1/8	1 1/2	0.255	Fish Tail
2320-0469.255D	●	2320-0469D255D	●	2320-0469V255D	●	3/64	1/8	1 1/2	0.255	Drill Point
2320-0625.255F	●	2320-0625D255F	●	2320-0625V255F	●	1/16	1/8	1 1/2	0.255	Fish Tail
2320-0625.255D	●	2320-0625D255D	●	2320-0625V255D	●	1/16	1/8	1 1/2	0.255	Drill Point
2320-0938.395F	●	2320-0938D395F	●	2320-0938V395F	●	3/32	1/8	1 1/2	0.395	Fish Tail
2320-0938.395D	●	2320-0938D395D	●	2320-0938V395D	●	3/32	1/8	1 1/2	0.395	Drill Point
2320-1250.500F	●	2320-1250D500F	●	2320-1250V500F	●	1/8	1/8	1 1/2	0.500	Fish Tail
2320-1250.500D	●	2320-1250D500D	●	2320-1250V500D	●	1/8	1/8	1 1/2	0.500	Drill Point

\*DLC is Amorphous Diamond

## UP CUT (Metric Sizes)

Uncoated		DLC* Coating		CVD Diamond		Dimensions (mm)				End Style
Part Number	Stock	Part Number	Stock	Part Number	Stock	ØD	Ød <sup>h6</sup>	L1	L2	
2320-0315.157F	●	2320-0315D157F	●	2320-0315V157F	●	0.80	3.00	38.00	4.00	Fish Tail
2320-0315.157D	●	2320-0315D157D	●	2320-0315V157D	●	0.80	3.00	38.00	4.00	Drill Point
2320-0394.197F	●	2320-0394D197F	●	2320-0394V197F	●	1.00	3.00	38.00	5.00	Fish Tail
2320-0394.197D	●	2320-0394D197D	●	2320-0394V197D	●	1.00	3.00	38.00	5.00	Drill Point
2320-0591.315F	●	2320-0591D315F	●	2320-0591V315F	●	1.50	3.00	38.00	8.00	Fish Tail
2320-0591.315D	●	2320-0591D315D	●	2320-0591V315D	●	1.50	3.00	38.00	8.00	Drill Point
2320-0787.354F	●	2320-0787D354F	●	2320-0787V354F	●	2.00	3.00	38.00	9.00	Fish Tail
2320-0787.354D	●	2320-0787D354D	●	2320-0787V354D	●	2.00	3.00	38.00	9.00	Drill Point
2320-1181.472F	●	2320-1181D472F	●	2320-1181V472F	●	3.00	3.00	38.00	12.00	Fish Tail
2320-1181.472D	●	2320-1181D472D	●	2320-1181V472D	●	3.00	3.00	38.00	12.00	Drill Point
2320-1575.591F	●	2320-1575D591F	●	2320-1575V591F	●	4.00	4.00	40.00	15.00	Fish Tail
2320-1575.591D	●	2320-1575D591D	●	2320-1575V591D	●	4.00	4.00	40.00	15.00	Drill Point
2320-1968.787F	●	2320-1968D787F	●	2320-1968V787F	●	5.00	5.00	50.00	20.00	Fish Tail
2320-1968.787D	●	2320-1968D787D	●	2320-1968V787D	●	5.00	5.00	50.00	20.00	Drill Point
2320-2362.787F	●	2320-2362D787F	●	2320-2362V787F	●	6.00	6.00	50.00	20.00	Fish Tail
2320-2362.787D	●	2320-2362D787D	●	2320-2362V787D	●	6.00	6.00	50.00	20.00	Drill Point
2320-3150.984F	●	2320-3150D984F	●	2320-3150V984F	●	8.00	8.00	63.00	25.00	Fish Tail
2320-3150.984D	●	2320-3150D984D	●	2320-3150V984D	●	8.00	8.00	63.00	25.00	Drill Point

\*DLC is Amorphous Diamond

- SOLID TOOLS
- DRILLS
- END MILLS
- ROUTERS
- THREAD MILLS & TAPS
- ENGRAVERS
- BORING BARS
- REAMERS
- TECHNICAL

### SERIES 2320 WORKPIECE MATERIAL

Coating	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N Brass	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
CVD Diamond							☆	★			★					
DLC							☆	☆			☆					
Uncoated							☆		★	★	★	☆	☆	☆		

★ : Priority ☆ : Applicable Materials

Symbol Descriptions Page L3