



# Series 2350

Low Fracture Printed Circuit Board Routers



Reduced Fracturing for Excellent Edge Quality

Reduces edge fracturing

Multiple applications available

Eliminate the need for entry material

Chipbreaker and Drill Point styles available



# Series 2350

## Fracture Reducing Router

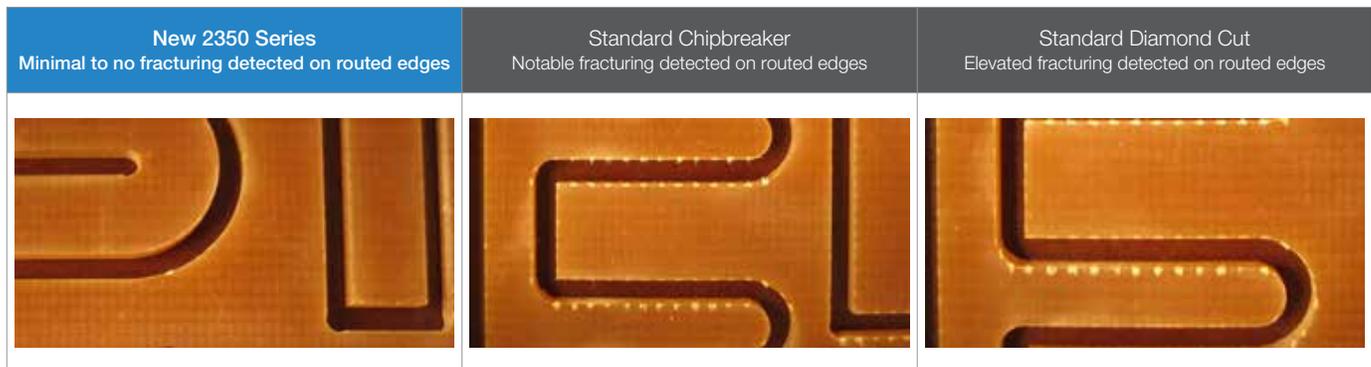
Kyocera Precision Tools Series 2350 Fracture Reducing Router Design

Driving down the costs in drill and fab operations has been the value proposition of Kyocera Precision Tools since its founding in 1987. Continuing to provide value, Kyocera Precision Tools introduces a new router design that reduces edge fracturing in many applications where fractured edges are a concern. The new tool design combines the advantages provided by end mills for edge quality and the chipbreaker router for debris evacuation. In addition, these tools generally eliminate the requirement of entry material that is sometimes needed on this type of work when using conventional cutters.

### Series 2350 Performance

Lab and beta site tests were conducted to ensure the product performed at an improved level that is both reliable and repeatable. Example results are provided below.

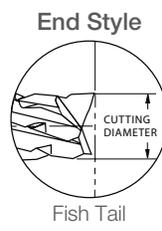
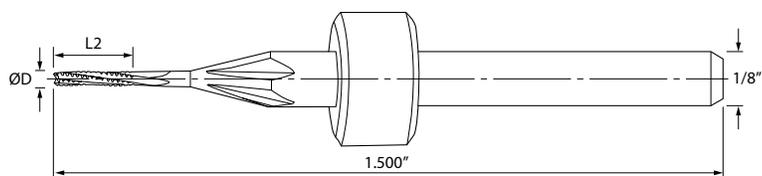
Testing Parameters	
Material :	Polyimide
Board Thickness :	0.063"
Diameter :	1.60mm



Users of the Series 2350 routers report 70% to 94% reduced fracturing when comparing to other router designs. Please contact a Kyocera Precision Tools field engineer for process assistance.

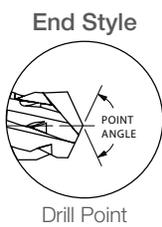
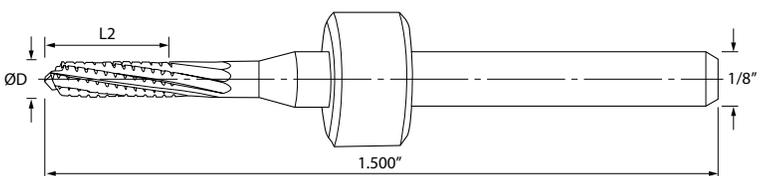
# Low Fracture Updraft Fish Tail Routers

Diameter Range  
**0.80mm ~ 2.40mm**



## STANDARD Flute Length (Metric)

Part Number	Stock	Router Size	Dimensions (mm)		End Style
			Cutting Diameter	Flute Length	
			ØD	L2	
2350.0472.276	●	1.20mm	1.200	7.000	Fish Tail



## STANDARD Flute Length (Metric)

Part Number	Stock	Router Size	Dimensions (mm)		End Style
			Cutting Diameter	Flute Length	
			ØD	L2	
2350.0315.177D	●	0.80mm	0.800	4.50	Drill Point
2350.0394.177D	●	1.00mm	1.000	4.50	Drill Point
2350.0492.197D	●	1.25mm	1.250	5.00	Drill Point
2350.0630.256D	●	1.60mm	1.600	6.50	Drill Point
2350.0787.276D	●	2.00mm	2.000	7.00	Drill Point
2350.0945.315D	●	2.40mm	2.400	8.00	Drill Point



Chipbreaker style updraft router designed with a cutting force reduction geometry leading to minimal routed edge fracturing and superior edge finish.



Part Numbers above include rings set at 0.800" - For Ringless Part Number, replace series "." with "-" (XXX-XXXX.XXXX)  
Additional diameters and special ring colors available upon request.



For recommended cutting conditions please visit:  
[www.kyoceraprecisiontools.com/pcb/speeds-feeds](http://www.kyoceraprecisiontools.com/pcb/speeds-feeds)



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