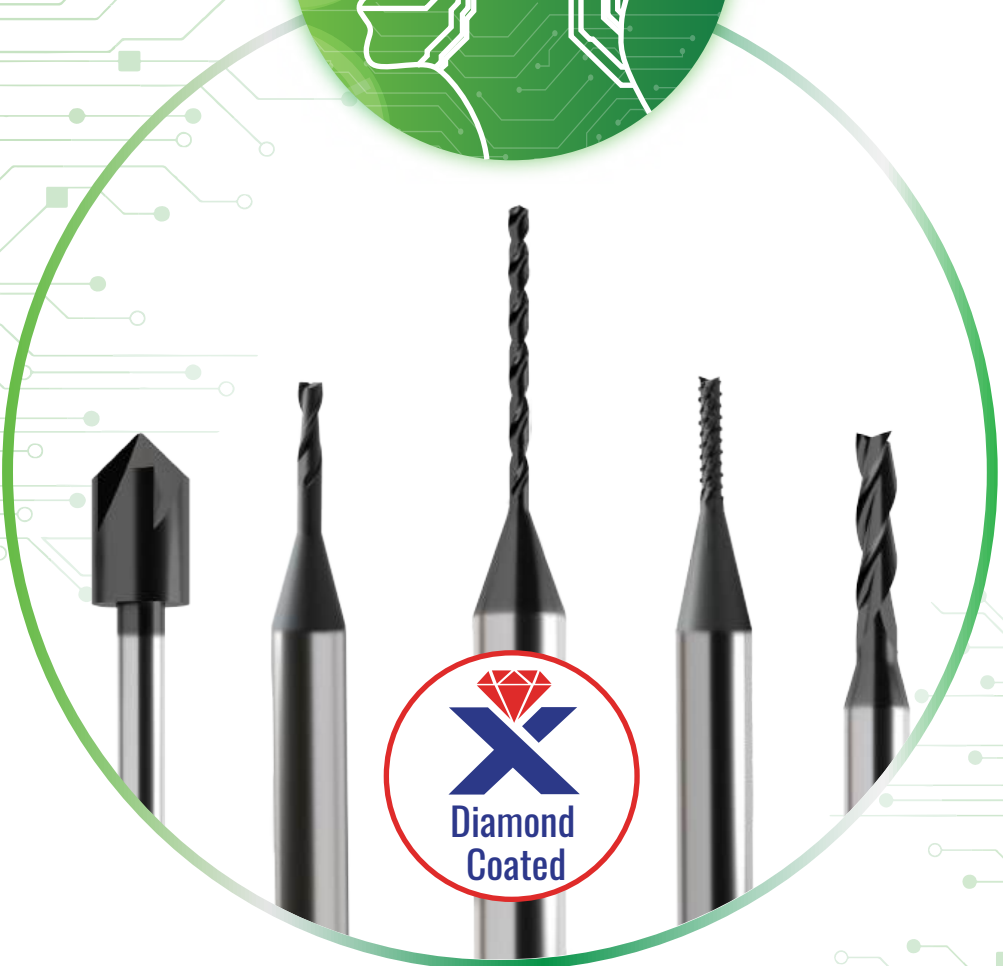
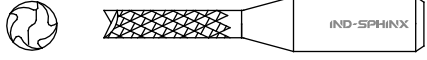




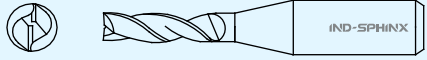
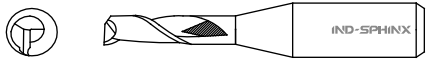





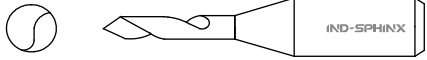



# CVD Diamond Coated Tools for PCB Industry



**Wide Range of CVD Diamond Coated Tools  
for PCB Industry**

# PCB CVD Diamond Coated Tools

Article	Tool Drawing	Series	Dia Range (mm)	Point	Helix	Application Guide									Operation
						FR4 Normal Tg	FR4 High Tg > 200	FR4 with ceramic fillers	Ceramic filled PTFE	Ceramic filled Hydrocarbon	Ceramic filled PTFE with woven glass	Halogen free laminates	IMS PCB with ceramic layer		
Routers		Diamond Cut Router Updraft	1.20 - 3.175	Fishtail	Right helix Right cut	○	●	●	●	●	●	●	○	<ul style="list-style-type: none"> <li>Routing of inner &amp; outer contours</li> <li>Depaneling</li> </ul>	
		Chip Breaker Router Updraft	0.80 - 3.00	Drill Point	Right helix Right cut	○	●	●	●	●	●	●	○	<ul style="list-style-type: none"> <li>Routing of inner &amp; outer contours</li> <li>Depaneling</li> </ul>	
		Chip Breaker Router Updraft	1.10 - 3.175	Fishtail	Right helix Right cut	○	●	●	●	●	●	●	○	<ul style="list-style-type: none"> <li>Routing of inner &amp; outer contours</li> <li>Depaneling</li> </ul>	
		Chip Breaker Router Downdraft	1.10 - 3.175	Fishtail	Left helix Right cut	○	●	●	●	●	●	●	○	<ul style="list-style-type: none"> <li>Routing of inner &amp; outer contours</li> <li>Depaneling</li> </ul>	
		2-Flute Router Updraft	0.30 - 3.175	Safe end	Right Helix Right Cut	○	○	○	○	○	○	○	●	<ul style="list-style-type: none"> <li>Ideally suitable for depth routing</li> </ul>	
		High Performance 2-Flute Router Updraft	0.30 - 3.175	Safe end	Right Helix Right Cut	○	○	○	○	○	○	○	●	<ul style="list-style-type: none"> <li>Ideally suitable for depth routing</li> </ul>	
		1-Flute Router Updraft	0.80 - 3.00 3.175 mm Shank	Safe end	Right helix Right cut	○	○	○	○	○	○	○	●	<ul style="list-style-type: none"> <li>Ideally suitable for depth routing ( for IMS PCBs with Copper backup)</li> </ul>	
		1-Flute Router Updraft	2.00 - 6.00 6.00 mm Shank	Safe end	Right helix Right cut	○	○	○	○	○	○	○	●	<ul style="list-style-type: none"> <li>Ideally suitable for depth routing ( for IMS PCBs with Copper backup)</li> </ul>	
Drills		Undercut Drill	0.20 - 0.45	130°	40° Right Helix	○	●	●	●	●	●	●	○	<ul style="list-style-type: none"> <li>Through drilling of PTH and NPTH</li> </ul>	
		Undercut Drill	0.50 - 1.25	130°	38° Right Helix	○	●	●	●	●	●	●	●	<ul style="list-style-type: none"> <li>Through drilling of PTH and NPTH</li> </ul>	
		Standard Drill	1.30 - 3.175	130°	38° Right Helix	○	●	●	●	●	●	●	●	<ul style="list-style-type: none"> <li>Through drilling of PTH and NPTH</li> </ul>	
		Inverse Drill	3.20 - 6.50	165°	32° Right Helix	○	●	●	●	●	●	●	●	<ul style="list-style-type: none"> <li>Through drilling of PTH and NPTH</li> </ul>	
Specials		V Score Router	2.00 / 2.40 / 3.175	30°, 45°, 60°, 82°, 90°	Right Helix Right Cut	○	●	●	●	●	●	●	●	<ul style="list-style-type: none"> <li>V-scoring and Chamfering</li> </ul>	
		Chamfering Cutter	6.00 / 6.35	45°, 60°, 75°, 90°, 120°, 140°	Straight Flute	○	●	●	●	●	●	●	●	<ul style="list-style-type: none"> <li>Chamfering of holes and Contours</li> </ul>	

Description : ● Optimal ○ Suitable ○ Not Suitable



# IND-SPHINX

PCB DRILLS | PCB ROUTERS



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