FULLERT



ADVANCED COMPOSITE TOOLING





PCD Tooling



- PCD Routers
- PCD End Mills COMING SOON!
- Composite End Mills
- Composite Poly Drills
- Composite Burr Routers

FC-1 CVD DIAMOND COATED TOOLING **VS** PCD TIPPED TOOLING

This quick guide will help identify which type of tooling is best for your application.

EASY TO SHAPE CUSTOM TOOLING
HIGH FEED RATES
TOOL COST
RECONDITIONING
STRONG CUTTING EDGE
HIGH SPEED APPLICATIONS
TOOL GEOMETRY CONTROL
COMPOSITES WITH METALICS

FC-1 CVD Diamond Coated	PCD-TIPPED
\checkmark	\checkmark
\checkmark	X
MID	HIGH
X	\checkmark
\checkmark	X
\checkmark	\checkmark
\checkmark	\checkmark
\checkmark	/





CUSTOM PCD TOOLING

Need a custom tool? Our FAST team is dedicated to help you select the right tool for your manufacturing process. By examining your manufacturing process, we can create the right tool for you. Sometimes that means making a slight alteration to one of our standard tools while at other times, we are creating completely custom tools designed specifically for your application.

No matter your needs, our FAST team has the experience and knowledge to help you select the right tool for your process.



WHY PCD?

Our PCD tooling is vacuum brazed and consists of a bi-modal grade of Poly-Crystalline Diamond (PCD) to create nothing but the most abrasive resistant tooling.

Our PCD tooling:

- Improves cycle times.
- Produces more parts per shift.
- Allows for high material removal rates.
- Allows for 2 to 3 times faster cutting speed capabilities over conventional cutting tools.
- Has a tool life up to 10 times longer than carbide.

PCD Router

6900 Series MATRX PCD R-1

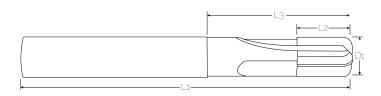
- Produces clean part edges.
- Increases resistance to abrasive wear.
- Reduces formation of built-up edges.
- Pure Polycrystalline Diamond Structure (PCD).
- Larger Corner Radii are Available Upon Request.











D1	L2	L3	L1	FLUTES	0.010 R	0.060 R	BALL
1/4	3/8	3/4	2-1/2	2	25700		25712
	1/2	1-1/2	3	2	-	-	25713
	3/4	1-1/2	3	2	25701	-	-
3/8	3/8	3/4	2-1/2	2	25702	-	25714
	3/4	1-1/2	4	2	25703	-	25715
1/2	1/2	1	4	2	25718	25704	25716
	1	2	4	2	25719	25705	25717

Visit fullertontool.com for a full listing of available EDPs.

MATRX PCD R-1



Composite End Mill

5500 Series MARTX EM-1

- Multi-flute design allows for ultimate material removal rates.
- High shear and low cutting forces provide a clean edge without fibers.
- Minimal material delamination or tearing of fibers.
- Chipbreakers produce clean shearing of fibers.
- Constructed from Dura Carb 3D wear-resistant carbide.
- Available uncoated and with FC-1 CVD Diamond Coating.





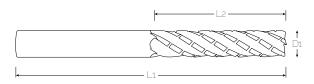












	D1	L2	L1	FLUTES	R	5500 Series Uncoated	5500 Series FC-1 Coated
Imperial	1/8	1/2	1-1/2	5	0.010	25000	25025
		1	3	5	0.010	25001	25026
	1/4	3/4	2-1/2	5	0.020	25002	25027
		1-1/2	4	5	0.020	25003	25028
	3/8	1	2-1/2	5	0.030	25004	25029
		2	4	5	0.030	25005	25030
	1/2	1-1/4	3-1/2	5	0.030	25006	25031
		2-3/8	5	5	0.030	25007	25032
	6.0	18.0	64.0	5	0.25	25016	25041
		36.0	76.5	5	0.25	25017	25042
	8.0	24.0	64.0	5	0.50	25018	25043
Metric	8.0	48.0	100.0	5	0.50	25019	25044
	10.0	30.0	76.0	5	1.00	25020	25045
		60.0	100.0	5	1.00	25021	25046
	12.0	36.0	90.0	5	1.00	25022	25047
		60.0	127.0	5	1.00	25023	25048

MATRX EM-1







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Composite PolyDrill

1566 / 5566 Series MATRX

- Produces a clean, burr-free hole without breakout.
- Three-flute design allows for ultimate material removal rates.
- Burr teeth provide a clean shearing of the material's fibers.
- 90° Point.
- Minimal material delamination.
- 1566 Constructed from Dura Carb and 5566 Constructed from Dura Carb 3D wear-resistant carbide.
- Available uncoated, with FC-1 CVD Diamond Coating, and with TiAIN Coating.







12.00

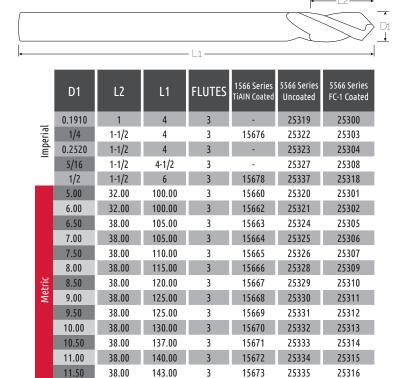
38.00

150.00

15674

25336

25317



(poly drill



Composite Burr Router

2600 / 5600 Series MATRX BR-1

- Produces clean shearing of the material's fibers.
- Increased relief angles deliver results without tearing fibers.
- Available with 4 different end cuts:

Style A - No End Cut

Style B - Burr, End Cut

Style C - End Mill End Cut

Style D - 135° Drill Point

each specialized for application specific uses.

- 2600 Constructed from Dura Carb and 5600 Constructed from Dura Carb 3D wear-resistant carbide.
- Available uncoated and with FC-1 CVD Diamond Coating.
- Allows for aggressive removal rates.
- Right-hand cut.

	lands.									
	T _{D1}									
	 		L1_							
	D1	L2	L1	2600 Series Uncoated	5600 Series Uncoated	5600 Series FC-1 Coated				
Style A	1/8	1/2	1-1/2	26125	25200	25250				
	3/16	5/8	2	26187	25201	25251				
		3/4	2-1/2	26250	25202	25252				
Styl	1/4	1	3	26260	25203	25253				
	3/8	1	2-1/2	26375	25204	25254				
	1/2	1	3	26500	25205	25255				
	1/8	1/2	1-1/2	26126	25206	25256				
	3/16	5/8	2	26188	25207	25257				
le B	1/4	3/4	2-1/2	26251	25208	25258				
Style	1/4	1	3	26261	25209	25259				
	3/8	1	2-1/2	26376	25210	25260				
	1/2	1	3	26501	25211	25261				
	1/8	1/2	1-1/2	26127	25212	25262				
	3/16	5/8	2	26189	25213	25263				
le C	1//	3/4	2-1/2	26252	25214	25264				
Style (1/4	1	3	26262	25215	25265				
	3/8	1	2-1/2	26377	25216	25266				
Style D	1/2	1	3	26502	25217	25267				
	1/8	1/2	1-1/2	26128	25218	25268				
	3/16	5/8	2	26190	25219	25269				
	1/4	3/4	2-1/2	26253	25220	25270				
Styl		1	3	26263	25221	25271				
	3/8	1	2-1/2	26378	25222	25272				
	1/2	1	3	26503	25223	25273				

├── L2 **─**→









Visit fullertontool.com for a full listing of available EDPs. 2600 Series Burrs Not Available with FC-1 Coating.



DOWNLOAD OUR SPEED & FEED CALCULATOR MOBILE APP



Calculate optimal settings instantly from the convenience of your phone or tablet, regardless if you're slotting, peel milling or trichoidial milling. Available for Android & iOS, it will soon be your favorite resource when tooling up a machine.

ABOUT FULLERTON TOOL COMPANY

Fullerton Tool Company is a third-generation, family owned business that specializes in the design and production of solid carbide cutting tools for a wide variety of industries. Founded in 1942, the company manufactures high quality end mills, drills, reamers, burrs, saws, keyseat cutters and PCD tooling. Fullerton's Advanced Solutions Team (FAST) is the foundation of the company's commitment to continuously improve, innovate and provide vast product diversity. Fullerton is an ISO 9001:2015 certified company.



Fullerton Tool Company Saginaw, MI

P: 989.799.4550 | 800.248.8315 **fullertontool.com**