

Solid Carbide Fiberglass Routers by ULTRATOOL



**Series 220** No End Cut    **Series 221** Burr Style End    **Series 222** End Mill Style    **Series 223** 135° Drill Point    **Series 224** Fish Tail Cut

Ultra's D1 PVD Diamond coating is the perfect compliment for routing abrasive materials with our 220 Series. The smoothness of our sputter based process helps evacuate the material up and out of the cut with superb lubricity. The hardness of D1's multi-layered surface lends outstanding wear characteristics when routing in the types of material for which the Series is designed. Add D1 as a suffix to the EDP #.



∅	Diam	LOC	OAL	Shank
1/8	1/8	1/2	1-1/2	1/8
3/16	3/16	5/8	2"	3/16
1/4	1/4	3/4	2-1/2	1/4
1/4A	1/4A	1"	3"	1/4
5/16	5/16	1"	2-1/2	5/16
3/8	3/8	1"	2-1/2	3/8
1/2	1/2	1"	3"	1/2

220	UnCoated	D1
EDP#	Price	Coated
22001	\$7.40	\$12.30
22002	\$10.90	\$16.50
22003	\$12.40	\$19.50
22007	\$15.60	\$23.10
22004	\$20.70	\$29.20
22005	\$24.20	\$33.70
22006	\$40.00	\$51.80

221	222	223	224	UnCoated	D1
EDP#	EDP#	EDP#	EDP#	Price	Coated
22101	22201	22301	22401	\$8.70	\$13.60
22102	22202	22302	22402	\$13.70	\$19.30
22103	22203	22303	22403	\$15.40	\$22.50
22107	22207	22307	22407	\$18.90	\$26.40
22104	22204	22304	22404	\$26.20	\$34.70
22105	22205	22305	22405	\$29.70	\$39.20
22106	22206	22306	22406	\$46.90	\$58.70

**Metric Diameters**

∅	Diam	LOC	OAL	Shank
6.0mm	6.0mm	19	63	6.0mm
6.0mm	6.0mm	25	75	6.0mm
8.0mm	8.0mm	25	63	8.0mm
10.0mm	10.0mm	25	70	10.0mm
12.0mm	12.0mm	25	74	12.0mm

**SFR** Router Specifications:  
Cutting Diam +.000/-0.005  
Shank Diam +.0000/-0.003

**SFR** Router Specifications: (Metric)  
Cutting Diam +0.000/-0.127mm  
Shank Diam +0.000/-0.007

Solid Carbide Single Flute Plastic Routers by ULTRATOOL

**Series 301**  
Single Flute Upcut Router  
Solid Carbide • RHS



Polished, high-shear RHS • RHC design for upcut plastic routing.

∅	Diam	LOC	OAL	Shank
1/8	1/8	5/8	2"	1/8
3/16	3/16	3/4	2"	3/16
1/4	1/4	3/4	2-1/2	1/4
1/4L	1/4L	1-1/4	3"	1/4
3/8	3/8	1-1/8	3"	3/8
1/2	1/2	1-1/2	4"	1/2

Square	UnCoated	D1
EDP#	Price	Price
34380	\$17.40	\$21.70
34381	\$18.80	\$23.80
34382	\$20.80	\$27.20
34383	\$26.70	\$33.40
34384	\$41.00	\$50.30
34385	\$71.50	\$86.20

**Series 302**  
Single Flute Downcut Router  
Solid Carbide • LHS



Polished, high-shear LHS • RHC design for downcut plastic routing.

∅	Diam	LOC	OAL	Shank
1/8	1/8	1/2	2"	1/8
3/16	3/16	5/8	2"	3/16
1/4	1/4	3/4	2-1/2	1/4
1/4L	1/4L	1-1/4	3"	1/4
3/8	3/8	1-1/8	3"	3/8
1/2	1/2	1-1/2	4"	1/2

Square	UnCoated	D1
EDP#	Price	Price
34390	\$17.40	\$21.70
34391	\$18.80	\$23.80
34392	\$20.80	\$27.20
34393	\$26.70	\$33.40
34394	\$41.00	\$50.30
34395	\$71.50	\$86.20

Solid Carbide Compression Routers by ULTRATOOL



**Series 2+2**  
Carbide Compression Router  
Two Flute RH + Two Flute LH

**Series 4+4**  
Carbide Compression Router  
Four Flute RH + Four Flute LH



∅	Diam	Style	LOC	Upshear	OAL	Shank
1/4	1/4	2+2	3/4	.285	2-1/2	1/4
1/4	1/4	2+2	1"	.285	2-1/2	1/4
1/4	1/4	4+4	.905	.250	2-1/2	1/4
1/4L	1/4L	4+4	1-1/4	.250	2-1/2	1/4
3/8	3/8	2+2	1"	.435	3"	3/8
3/8	3/8	2+2	1-1/8	.435	3"	3/8
1/2	1/2	2+2	1"	.435	3"	1/2
1/2	1/2	2+2	1-1/8	.435	3"	1/2
1/2	1/2	2+2	1-1/8	.435	4"	1/2
1/2	1/2	2+2	1-3/8	.435	3"	1/2
1/2	1/2	2+2	1-3/8	.435	4"	1/2
1/2	1/2	2+2	1-5/8	.435	4"	1/2
5/8	5/8	2+2	1-5/8	.735	4"	5/8
5/8	5/8	2+2	1-7/8	.735	5"	5/8
5/8	5/8	2+2	2-1/4	.735	5"	5/8
3/4	3/4	2+2	1-5/8	.860	4"	3/4
3/4	3/4	2+2	2-1/2	.985	5"	3/4

Square	UnCoated	D1	D2
EDP#	Price	Price	Price
34355	\$37.10	\$45.60	\$99.60
34356	\$40.30	\$48.80	\$102.80
34357	\$41.30	\$49.80	\$103.80
34358	\$44.50	\$53.00	\$107.00
34359	\$55.10	\$64.60	\$160.60
34360	\$55.10	\$64.60	\$160.60
34361	\$62.00	\$75.50	\$193.00
34362	\$63.10	\$76.60	\$194.10
34363	\$78.40	\$95.40	\$208.40
34364	\$65.20	\$78.70	\$196.20
34365	\$81.60	\$98.60	\$211.60
34366	\$83.70	\$100.70	\$287.70
34367	\$154.20	\$175.20	\$407.70
34368	\$171.70	\$204.20	\$424.70
34369	\$179.70	\$212.20	\$432.70
34370	\$174.90	\$198.90	\$522.90
34371	\$218.40	\$256.90	\$566.40

These routers are designed for compression routing of a wide range of materials. Our polished SmoothGrind cutting edges shears the work piece with a super sharp primary relief. Use our thin, smooth, and hard D1 PVD diamond for plastics, woods, composites, CFRP's, honeycombs, and other abrasive materials. Use our hard & thick D2 CVD diamond for long-running jobs in the same materials.

