



661-467-0440



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We make the most advanced end mills on the market Introducing The VHog End Mill

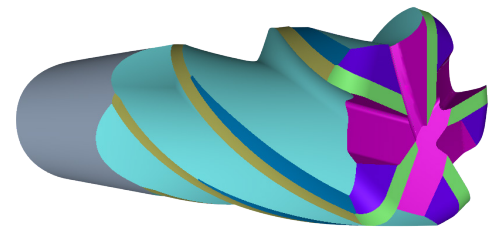
DIA	LOC	OAL	FL	.000 RAD	.030 RAD	.060 RAD	.120 RAD
4 Fl Tools X Square End				Corner Radius			
0.125	0.25	1.50	4	V1254.250R000C1	V1254.250R030C1		
	0.50	2.50	4	V1254.500R000C1	V1254.500R030C1		
0.188	0.31	2.00	4	V1884.310R000C1	V1884.310R030C1	V1884.310R060C1	
	0.63	2.50	4	V1884.630R000C1	V1884.630R030C1	V1884.630R060C1	
0.250	0.38	2.00	4	V2504.380R000C1	V2504.380R030C1	V2504.380R060C1	
	0.63	2.50	4	V2504.630R000C1	V2504.630R030C1	V2504.630R060C1	
	0.88	2.50	4	V2504.880R000C1	V2504.880R030C1	V2504.880R060C1	
0.375	0.50	2.50	4	V3754.500R000C1	V3754.500R030C1	V3754.500R060C1	V3754.500R120C1
	0.88	3.00	4	V3754.880R000C1	V3754.880R030C1	V3754.880R060C1	V3754.880R120C1
	1.25	3.00	4	V37541.25R000C1	V37541.25R030C1	V37541.25R060C1	V37541.25R120C1
0.500	0.63	2.50	4	V5004.630R000C1	V5004.630R030C1	V5004.630R060C1	V5004.630R120C1
	1.00	3.00	4	V50041.00R000C1	V50041.00R030C1	V50041.00R060C1	V50041.00R120C1
	1.25	3.00	4	V50041.25R000C1	V50041.25R030C1	V50041.25R060C1	V50041.25R120C1
0.625	0.75	3.00	4	V6254.750R000C1	V6254.750R030C1	V6254.750R060C1	V6254.750R120C1
	1.25	3.50	4	V62541.25R000C1	V62541.25R030C1	V62541.25R060C1	V62541.25R120C1
	1.63	3.50	4	V62541.63R000C1	V62541.63R030C1	V62541.63R060C1	V62541.63R120C1
0.750	1.00	4.00	4	V75041.00R000C1	V75041.00R030C1	V75041.00R060C1	V75041.00R120C1
	1.63	4.00	4	V75041.63R000C1	V75041.63R030C1	V75041.63R060C1	V75041.63R120C1
	2.25	5.00	4	V75042.25R000C1	V75042.25R030C1	V75042.25R060C1	V75042.25R120C1
1.000	1.50	4.00	4	V10041.50R000C1	V10041.50R030C1	V10041.50R060C1	V10041.50R120C1
	2.00	4.50	4	V10042.00R000C1	V10042.00R030C1	V10042.00R060C1	V10042.00R120C1
	2.63	5.00	4	V10042.63R000C1	V10042.63R030C1	V10042.63R060C1	V10042.63R120C1

High Performance 4 Flute End Mills for "Hard" Metals

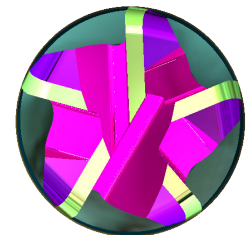
Vortex Flutes Spiraling In Control!

These end mills are not your everyday variable helix tool. Designed using our patents, the **VHog** utilizes:

Our Vortical helix flute formation



Eccentric Od



Inconstant Indexing

High Performance 5 Flute End Mills for "Hard" Metals

DIA	LOC	OAL	FL	.000 RAD	.030 RAD	.060 RAD	.120 RAD
5 Fl Tools X Square End				Corner Radius			
0.125	0.25	1.50	5	V1255.250R000C1	V1255.250R030C1		
	0.50	2.50	5	V1255.500R000C1	V1255.500R030C1		
0.188	0.31	2.00	5	V1885.310R000C1	V1885.310R030C1	V1885.310R060C1	
	0.63	2.50	5	V1885.630R000C1	V1885.630R030C1	V1885.630R060C1	
0.250	0.38	2.00	5	V2505.380R000C1	V2505.380R030C1	V2505.380R060C1	
	0.63	2.50	5	V2505.630R000C1	V2505.630R030C1	V2505.630R060C1	
	0.88	2.50	5	V2505.880R000C1	V2505.880R030C1	V2505.880R060C1	
0.375	0.50	2.50	5	V3755.500R000C1	V3755.500R030C1	V3755.500R060C1	V3755.500R120C1
	0.88	3.00	5	V3755.880R000C1	V3755.880R030C1	V3755.880R060C1	V3755.880R120C1
	1.25	3.00	5	V37551.25R000C1	V37551.25R030C1	V37551.25R060C1	V37551.25R120C1
0.500	0.63	2.50	5	V5005.630R000C1	V5005.630R030C1	V5005.630R060C1	V5005.630R120C1
	1.00	3.00	5	V50051.00R000C1	V50051.00R030C1	V50051.00R060C1	V50051.00R120C1
	1.25	3.00	5	V50051.25R000C1	V50051.25R030C1	V50051.25R060C1	V50051.25R120C1
0.625	0.75	3.00	5	V6255.750R000C1	V6255.750R030C1	V6255.750R060C1	V6255.750R120C1
	1.25	3.50	5	V62551.25R000C1	V62551.25R030C1	V62551.25R060C1	V62551.25R120C1
	1.63	3.50	5	V62551.63R000C1	V62551.63R030C1	V62551.63R060C1	V62551.63R120C1
0.750	1.00	4.00	5	V75051.00R000C1	V75051.00R030C1	V75051.00R060C1	V75051.00R120C1
	1.63	4.00	5	V75051.63R000C1	V75051.63R030C1	V75051.63R060C1	V75051.63R120C1
	2.25	5.00	5	V75052.25R000C1	V75052.25R030C1	V75052.25R060C1	V75052.25R120C1
1.000	1.50	4.00	5	V10051.50R000C1	V10051.50R030C1	V10051.50R060C1	V10051.50R120C1
	2.00	4.50	5	V10052.00R000C1	V10052.00R030C1	V10052.00R060C1	V10052.00R120C1
	2.63	5.00	5	V10052.63R000C1	V10052.63R030C1	V10052.63R060C1	V10052.63R120C1



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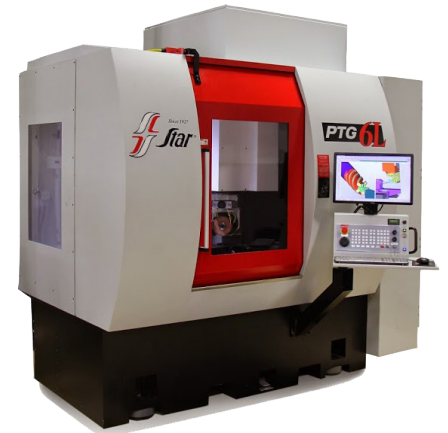
The VHog End Mill

DIA	LOC	OAL	LBS	FL	.000 RAD	.030 RAD	.060 RAD	.120 RAD
4 Fl Tools X Square End					Corner Radius			
0.125	0.16	1.50	0.38	4	VR1254.380R000C1	VR1254.380R030C1		
	0.16	2.50	0.63	4	VR1254.630R000C1	VR1254.630R030C1		
0.188	0.22	2.00	0.63	4	VR1884.630R000C1	VR1884.630R030C1	VR1884.630R060C1	
	0.22	2.50	1.00	4	VR1884.100R000C1	VR1884.100R030C1	VR1884.100R060C1	
0.250	0.38	3.00	0.75	4	VR2504.750R000C1	VR2504.750R030C1	VR2504.750R060C1	
	0.38	4.00	1.13	4	VR2504.13R000C1	VR2504.13R030C1	VR2504.13R060C1	
	0.38	4.00	2.13	4	VR2504.2.13R000C1	VR2504.2.13R030C1	VR2504.2.13R060C1	
0.375	0.50	3.00	1.13	4	VR3754.13R000C1	VR3754.13R030C1	VR3754.13R060C1	VR3754.13R120C1
	0.50	4.00	2.13	4	VR3754.2.13R000C1	VR3754.2.13R030C1	VR3754.2.13R060C1	VR3754.2.13R120C1
	0.50	6.00	3.13	4	VR3754.3.13R000C1	VR3754.3.13R030C1	VR3754.3.13R060C1	VR3754.3.13R120C1
0.500	0.63	4.00	1.50	4	VR5004.1.50R000C1	VR5004.1.50R030C1	VR5004.1.50R060C1	VR5004.1.50R120C1
	0.63	5.00	2.50	4	VR5004.2.50R000C1	VR5004.2.50R030C1	VR5004.2.50R060C1	VR5004.2.50R120C1
	0.63	6.00	3.50	4	VR5004.3.50R000C1	VR5004.3.50R030C1	VR5004.3.50R060C1	VR5004.3.50R120C1
0.625	0.75	4.00	1.63	4	VR6254.1.63R000C1	VR6254.1.63R030C1	VR6254.1.63R060C1	VR6254.1.63R120C1
	0.75	5.00	2.50	4	VR6254.2.50R000C1	VR6254.2.50R030C1	VR6254.2.50R060C1	VR6254.2.50R120C1
	0.75	6.00	3.50	4	VR6254.3.50R000C1	VR6254.3.50R030C1	VR6254.3.50R060C1	VR6254.3.50R120C1
0.750	1.00	4.00	2.00	4	VR7504.2.00R000C1	VR7504.2.00R030C1	VR7504.2.00R060C1	VR7504.2.00R120C1
	1.00	5.00	2.75	4	VR7504.2.75R000C1	VR7504.2.75R030C1	VR7504.2.75R060C1	VR7504.2.75R120C1
	1.00	6.00	3.50	4	VR7504.3.50R000C1	VR7504.3.50R030C1	VR7504.3.50R060C1	VR7504.3.50R120C1
1.000	1.50	4.00	2.50	4	VR1004.2.50R000C1	VR1004.2.50R030C1	VR1004.2.50R060C1	VR1004.2.50R120C1
	1.50	6.00	3.00	4	VR1004.3.00R000C1	VR1004.3.00R030C1	VR1004.3.00R060C1	VR1004.3.00R120C1
	1.50	6.00	3.50	4	VR1004.3.50R000C1	VR1004.3.50R030C1	VR1004.3.50R060C1	VR1004.3.50R120C1

Neck Relieved High Performance 4 Flute End Mills For "Hard" Metals

State of the art equipment used to create the highest performance cutting tools on the market

We guarantee that our end mills will out perform your current end mills!



Neck Relieved High Performance 5 Flute End Mills For "Hard" Metals

DIA	LOC	OAL	LBS	FL	.000 RAD	.030 RAD	.060 RAD	.120 RAD
5 Fl Tools X Square End					Corner Radius			
0.125	0.16	1.50	0.38	5	VR1255.380R000C1	VR1255.380R030C1		
	0.16	2.50	0.63	5	VR1255.630R000C1	VR1255.630R030C1		
0.188	0.22	2.00	0.63	5	VR1885.630R000C1	VR1885.630R030C1	VR1885.630R060C1	
	0.22	2.50	1.00	5	VR1885.100R000C1	VR1885.100R030C1	VR1885.100R060C1	
0.250	0.38	3.00	0.75	5	VR2505.750R000C1	VR2505.750R030C1	VR2505.750R060C1	
	0.38	4.00	1.13	5	VR2505.13R000C1	VR2505.13R030C1	VR2505.13R060C1	
	0.38	5.00	2.13	5	VR2505.2.13R000C1	VR2505.2.13R030C1	VR2505.2.13R060C1	
0.375	0.50	3.00	1.13	5	VR3755.13R000C1	VR3755.13R030C1	VR3755.13R060C1	VR3755.13R120C1
	0.50	4.00	2.13	5	VR3755.2.13R000C1	VR3755.2.13R030C1	VR3755.2.13R060C1	VR3755.2.13R120C1
	0.50	6.00	3.13	5	VR3755.3.13R000C1	VR3755.3.13R030C1	VR3755.3.13R060C1	VR3755.3.13R120C1
0.500	0.63	4.00	2.50	5	VR5005.2.50R000C1	VR5005.2.50R030C1	VR5005.2.50R060C1	VR5005.2.50R120C1
	0.63	5.00	1.50	5	VR5005.1.50R000C1	VR5005.1.50R030C1	VR5005.1.50R060C1	VR5005.1.50R120C1
	0.63	6.00	3.50	5	VR5005.3.50R000C1	VR5005.3.50R030C1	VR5005.3.50R060C1	VR5005.3.50R120C1
0.625	0.75	4.00	1.63	5	VR6255.1.63R000C1	VR6255.1.63R030C1	VR6255.1.63R060C1	VR6255.1.63R120C1
	0.75	5.00	2.50	5	VR6255.2.50R000C1	VR6255.2.50R030C1	VR6255.2.50R060C1	VR6255.2.50R120C1
	0.75	6.00	3.50	5	VR6255.3.50R000C1	VR6255.3.50R030C1	VR6255.3.50R060C1	VR6255.3.50R120C1
0.750	1.00	4.00	2.00	5	VR7505.2.75R000C1	VR7505.2.75R030C1	VR7505.2.75R060C1	VR7505.2.75R120C1
	1.00	5.00	2.75	5	VR7505.2.00R000C1	VR7505.2.00R030C1	VR7505.2.00R060C1	VR7505.2.00R120C1
	1.00	6.00	3.50	5	VR7505.3.50R000C1	VR7505.3.50R030C1	VR7505.3.50R060C1	VR7505.3.50R120C1
1.000	1.50	4.00	2.50	5	VR1005.2.50R000C1	VR1005.2.50R030C1	VR1005.2.50R060C1	VR1005.2.50R120C1
	1.50	6.00	3.00	5	VR1005.3.00R000C1	VR1005.3.00R030C1	VR1005.3.00R060C1	VR1005.3.00R120C1
	1.50	6.00	3.50	5	VR1005.3.50R000C1	VR1005.3.50R030C1	VR1005.3.50R060C1	VR1005.3.50R120C1

*Competitor end mill must be of comparable specs—we will provide an additional end mill at no cost and provide technical support to trouble shoot the application