

# **P.L. Schmitt Carbide Tooling**

Attitude Standard Tooling Catalog 2016

We will quote special sizes as well Call  
or Email:



**COMPLETE METALWORKING SOLUTIONS**

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# Standard Square Endmills



Cutting Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute EDP#	3 Flute EDP#	4 Flute EDP#
1/32	1/8	3/32	1-1/2	S2-2	S3-2	S4-2
3/64	1/8	3/16	1-1/2	S2-3	S3-3	S4-3
1/16	1/8	1/4	1-1/2	S2-4	S3-4	S4-4
5/64	1/8	1/4	1-1/2	S2-5	S3-5	S4-5
3/32	1/8	3/8	1-1/2	S2-6	S3-6	S4-6
7/64	1/8	3/8	1-1/2	S2-7	S3-7	S4-7
1/8	1/8	1/2	1-1/2	S2-8	S3-8	S4-8
9/64	3/16	9/16	2	S2-9	S3-9	S4-9
5/32	3/16	9/16	2	S2-10	S3-10	S4-10
11/64	3/16	9/16	2	S2-11	S3-11	S4-11
3/16	3/16	9/16	2	S2-12	S3-12	S4-12
13/64	1/4	5/8	2-1/2	S2-13	S3-13	S4-13
7/32	1/4	5/8	2-1/2	S2-14	S3-14	S4-14
15/64	1/4	3/4	2-1/2	S2-15	S3-15	S4-15
1/4	1/4	3/4	2-1/2	S2-16	S3-16	S4-16
17/64	5/16	3/4	2-1/2	S2-17	S3-17	S4-17
9/32	5/16	3/4	2-1/2	S2-18	S3-18	S4-18
19/64	5/16	3/4	2-1/2	S2-19	S3-19	S4-19
5/16	5/16	3/4	2-1/2	S2-20	S3-20	S4-20
21/64	3/8	7/8	2-1/2	S2-21	S3-21	S4-21
11/32	3/8	7/8	2-1/2	S2-22	S3-22	S4-22
23/64	3/8	7/8	2-1/2	S2-23	S3-23	S4-23
3/8	3/8	7/8	2-1/2	S2-24	S3-24	S4-24
25/64	7/16	7/8	2-1/2	S2-25	S3-25	S4-25
13/32	7/16	7/8	2-1/2	S2-26	S3-26	S4-26
27/64	7/16	7/8	2-1/2	S2-27	S3-27	S4-27
7/16	7/16	1	2-1/2	S2-28	S3-28	S4-28
29/64	1/2	1	3	S2-29	S3-29	S4-29
15/32	1/2	1	3	S2-30	S3-30	S4-30
31/64	1/2	1	3	S2-31	S3-31	S4-31
1/2	1/2	1	3	S2-32	S3-32	S4-32
9/16	9/16	1-1/4	3-1/2	S2-36	S3-36	S4-36
5/8	5/8	1-1/4	3-1/2	S2-40	S3-40	S4-40
3/4	3/4	1-1/2	4	S2-48	S3-48	S4-48

TOLERANCES: Cutting Diameter up to .500" +0 -.002 Over .500" +0 -.003 Shank Diameter +.0 -.0005

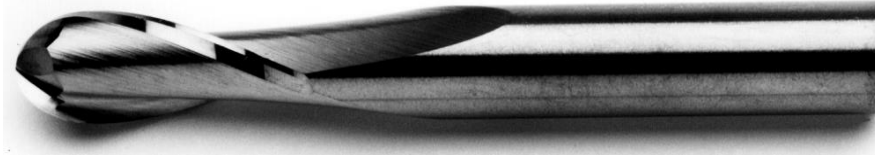
All tools can be quoted with wear-resistance coatings



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# Standard Ball Endmills



Cutting Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute EDP#	3 Flute EDP#	4 Flute EDP#
1/32	1/8	3/32	1-1/2	B2-2	B3-2	B4-2
3/64	1/8	3/16	1-1/2	B2-3	B3-3	B4-3
1/16	1/8	1/4	1-1/2	B2-4	B3-4	B4-4
5/64	1/8	1/4	1-1/2	B2-5	B3-5	B4-5
3/32	1/8	3/8	1-1/2	B2-6	B3-6	B4-6
7/64	1/8	3/8	1-1/2	B2-7	B3-7	B4-7
1/8	1/8	1/2	1-1/2	B2-8	B3-8	B4-8
9/64	3/16	9/16	2	B2-9	B3-9	B4-9
5/32	3/16	9/16	2	B2-10	B3-10	B4-10
11/64	3/16	9/16	2	B2-11	B3-11	B4-11
3/16	3/16	9/16	2	B2-12	B3-12	B4-12
13/64	1/4	5/8	2-1/2	B2-13	B3-13	B4-13
7/32	1/4	5/8	2-1/2	B2-14	B3-14	B4-14
15/64	1/4	3/4	2-1/2	B2-15	B3-15	B4-15
1/4	1/4	3/4	2-1/2	B2-16	B3-16	B4-16
17/64	5/16	3/4	2-1/2	B2-17	B3-17	B4-17
9/32	5/16	3/4	2-1/2	B2-18	B3-18	B4-18
19/64	5/16	3/4	2-1/2	B2-19	B3-19	B4-19
5/16	5/16	3/4	2-1/2	B2-20	B3-20	B4-20
21/64	3/8	7/8	2-1/2	B2-21	B3-21	B4-21
11/32	3/8	7/8	2-1/2	B2-22	B3-22	B4-22
23/64	3/8	7/8	2-1/2	B2-23	B3-23	B4-23
3/8	3/8	7/8	2-1/2	B2-24	B3-24	B4-24
25/64	7/16	7/8	2-1/2	B2-25	B3-25	B4-25
13/32	7/16	7/8	2-1/2	B2-26	B3-26	B4-26
27/64	7/16	7/8	2-1/2	B2-27	B3-27	B4-27
7/16	7/16	1	2-1/2	B2-28	B3-28	B4-28
29/64	1/2	1	3	B2-29	B3-29	B4-29
15/32	1/2	1	3	B2-30	B3-30	B4-30
31/64	1/2	1	3	B2-31	B3-31	B4-31
1/2	1/2	1	3	B2-32	B3-32	B4-32
9/16	9/16	1-1/4	3-1/2	B2-36	B3-36	B4-36
5/8	5/8	1-1/4	3-1/2	B2-40	B3-40	B4-40
3/4	3/4	1-1/2	4	B2-48	B3-48	B4-48

TOLERANCES: Cutting Diameter up to .500" +0 -.002 Over .500" +0 -.003 Shank Diameter +.0 -.0005

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# Extra Long End Mills



Manufactured from premium *micro grain* carbide

Cutting Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute EDP#	4 Flute EDP#
1/8	1/8	3/4	2	S2-8-EL-.75-2	S4-8-EL-.75-2
1/8	1/8	1	3	S2-8-EL-1-3	S4-8-EL-1-3
3/16	3/16	1	4	S2-12-EL-1-4	S4-12-EL-1-4
1/4	1/4	1	4	S2-16-EL-1-4	S4-16-EL-1-4
1/4	1/4	1.5	4	S2-16-EL-1.5-4	S4-16-EL-1.5-4
1/4	1/4	1.5	6	S2-16-EL-1.5-6	S4-16-EL-1.5-6
5/16	5/16	1	4	S2-20-EL-1-4	S4-20-EL-1-4
5/16	5/16	1.5	4	S2-20-EL-1.5-4	S4-20-EL-1.5-4
5/16	5/16	1.5	6	S2-20-EL-1.5-6	S4-20-EL-1.5-6
3/8	3/8	1	4	S2-24-EL-1-4	S4-24-EL-1-4
3/8	3/8	2	4	S2-24-EL-2-4	S4-24-EL-2-4
3/8	3/8	2	6	S2-24-EL-2-6	S4-24-EL-2-6
3/8	3/8	3	6	S2-24-EL-3-6	S4-24-EL-3-6
7/16	7/16	1	4	S2-28-EL-1-4	S4-28-EL-1-4
7/16	7/16	2	4	S2-28-EL-2-4	S4-28-EL-2-4
7/16	7/16	1	6	S2-28-EL-1-6	S4-28-EL-1-6
7/16	7/16	2	6	S2-28-EL-2-6	S4-28-EL-2-6
7/16	7/16	3	6	S2-28-EL-3-6	S4-28-EL-3-6
1/2	1/2	1	4	S2-32-EL-1-4	S4-32-EL-1-4
1/2	1/2	2	4	S2-32-EL-2-4	S4-32-EL-2-4
1/2	1/2	1	6	S2-32-EL-1-6	S4-32-EL-1-6
1/2	1/2	2	6	S2-32-EL-2-6	S4-32-EL-2-6
1/2	1/2	3	6	S2-32-EL-3-6	S4-32-EL-3-6
5/8	5/8	2	6	S2-40-EL-2-6	S4-40-EL-2-6
5/8	5/8	3	6	S2-40-EL-3-6	S4-40-EL-3-6
3/4	3/4	2	6	S2-48-EL-2-6	S4-48-EL-2-6
3/4	3/4	3	6	S2-48-EL-3-6	S4-48-EL-3-6

TOLERANCES: Cutting Diameter up to .500" +.0 -.002 Over .500" +.0 -.003 Shank Diameter +.0 -.0005

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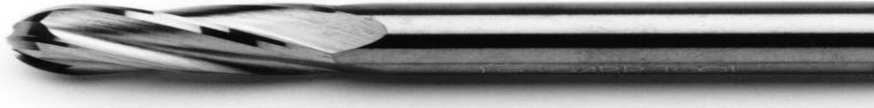


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Cutting Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute EDP#	4 Flute EDP#
1/8	1/8	3/4	2	B2-8-EL-.75-2	B4-8-EL-.75-2
1/8	1/8	1	3	B2-8-EL-1-3	B4-8-EL-1-3
3/16	3/16	1	4	B2-12-EL-1-4	B4-12-EL-1-4
1/4	1/4	1	4	B2-16-EL-1-4	B4-16-EL-1-4
1/4	1/4	1.5	4	B2-16-EL-1.5-4	B4-16-EL-1.5-4
1/4	1/4	1.5	6	B2-16-EL-1.5-6	B4-16-EL-1.5-6
5/16	5/16	1	4	B2-20-EL-1-4	B4-20-EL-1-4
5/16	5/16	1.5	4	B2-20-EL-1.5-4	B4-20-EL-1.5-4
5/16	5/16	1.5	6	B2-20-EL-1.5-6	B4-20-EL-1.5-6
3/8	3/8	1	4	B2-24-EL-1-4	B4-24-EL-1-4
3/8	3/8	2	4	B2-24-EL-2-4	B4-24-EL-2-4
3/8	3/8	2	6	B2-24-EL-2-6	B4-24-EL-2-6
3/8	3/8	3	6	B2-24-EL-3-6	B4-24-EL-3-6
7/16	7/16	1	4	B2-28-EL-1-4	B4-28-EL-1-4
7/16	7/16	2	4	B2-28-EL-2-4	B4-28-EL-2-4
7/16	7/16	1	6	B2-28-EL-1-6	B4-28-EL-1-6
7/16	7/16	2	6	B2-28-EL-2-6	B4-28-EL-2-6
7/16	7/16	3	6	B2-28-EL-3-6	B4-28-EL-3-6
1/2	1/2	1	4	B2-32-EL-1-4	B4-32-EL-1-4
1/2	1/2	2	4	B2-32-EL-2-4	B4-32-EL-2-4
1/2	1/2	1	6	B2-32-EL-1-6	B4-32-EL-1-6
1/2	1/2	2	6	B2-32-EL-2-6	B4-32-EL-2-6
1/2	1/2	3	6	B2-32-EL-3-6	B4-32-EL-3-6
5/8	5/8	2	6	B2-40-EL-2-6	B4-40-EL-2-6
5/8	5/8	3	6	B2-40-EL-3-6	B4-40-EL-3-6
3/4	3/4	2	6	B2-48-EL-2-6	B4-48-EL-2-6
3/4	3/4	3	6	B2-48-EL-3-6	B4-48-EL-3-6

TOLERANCES: Cutting Diameter up to .500" +0 -.002 Over .500" +0 -.003 Shank Diameter +.0 - .0005

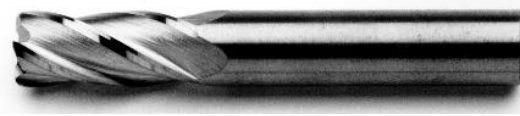
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# Corner Radius Endmills



Corner Radii are available in “in-between sizes”...Just ask for that *special* radius.

Cutting Dia./Radius	Shank Diameter	Flute Length	Overall Length	2 Flute EDP#	4 Flute EDP#
1/8 X .015	1/8	1/2	1-1/2	R2-8-.015	R4-8-.015
1/8 X .020	1/8	1/2	1-1/2	R2-8-.020	R4-8-.020
3/16 X .015	3/16	9/16	2	R2-12-.015	R4-12-.015
3/16 X .030	3/16	9/16	2	R2-12-.030	R4-12-.030
1/4 X .015	1/4	3/4	2-1/2	R2-16-.015	R4-16-.015
1/4 X .030	1/4	3/4	2-1/2	R2-16-.030	R4-16-.030
5/16 X .015	5/16	3/4	2-1/2	R2-20-.015	R4-20-.015
5/16 X .030	5/16	3/4	2-1/2	R2-20-.030	R4-20-.030
5/16 X .045	5/16	3/4	2-1/2	R2-20-.045	R4-20-.045
3/8 X .015	3/8	7/8	2-1/2	R2-24-.015	R4-24-.015
3/8 X .030	3/8	7/8	2-1/2	R2-24-.030	R4-24-.030
3/8 X .045	3/8	7/8	2-1/2	R2-24-.045	R4-24-.045
1/2 X .015	1/2	1	3	R2-32-.015	R4-32-.015
1/2 X .030	1/2	1	3	R2-32-.030	R4-32-.030
1/2 X .045	1/2	1	3	R2-32-.045	R4-32-.045
1/2 X .060	1/2	1	3	R2-32-.060	R4-32-.060
5/8 X .015	5/8	1-1/4	3-1/2	R2-40-.015	R4-40-.015
5/8 X .030	5/8	1-1/4	3-1/2	R2-40-.030	R4-40-.030
5/8 X .045	5/8	1-1/4	3-1/2	R2-40-.045	R4-40-.045
5/8 X .060	5/8	1-1/4	3-1/2	R2-40-.060	R4-40-.060
5/8 X .090	5/8	1-1/4	3-1/2	R2-40-.090	R4-40-.090
3/4 X .015	3/4	1-1/2	4	R2-48-.015	R4-48-.015
3/4 X .030	3/4	1-1/2	4	R2-48-.030	R4-48-.030
3/4 X .045	3/4	1-1/2	4	R2-48-.045	R4-48-.045
3/4 X .060	3/4	1-1/2	4	R2-48-.060	R4-48-.060
3/4 X .090	3/4	1-1/2	4	R2-48-.090	R4-48-.090
3/4 X .125	3/4	1-1/2	4	R2-48-.125	R4-48-.125

TOLERANCES: Cutting Diameter up to .500” +0 -.002 Over .500” +0 -.003 Shank Diameter +.0 -.0005

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# Tapered Endmills – Square End



Taper	Tip Diameter	Shank Diameter	Flute Length	Overall Length	3 Flute EDP#
1	0.125	1/4	1-1/2	3	TS-1-16
1.5	0.125	1/4	1-1/2	3	TS-1.5-16
2	0.125	1/4	1-1/2	3	TS-2-16
3	0.125	1/4	1	3	TS-3-16
5	0.125	1/4	5/8	3	TS-5-16
7	0.125	1/4	1/2	3	TS-7-16
1	0.187	3/8	1-3/4	4	TS-1-24
1.5	0.187	3/8	1-3/4	4	TS-1.5-24
2	0.187	3/8	1-3/4	4	TS-2-24
3	0.187	3/8	1-3/4	4	TS-3-24
5	0.187	3/8	1	4	TS-5-24
7	0.187	3/8	3/4	4	TS-7-24
3	0.250	1/2	2	4	TS-3-32
5	0.250	1/2	1-3/8	4	TS-5-32
7	0.250	1/2	1	4	TS-7-32

# Tapered End Mills – Ball End



Taper	Tip Radius	Shank Diameter	Flute Length	Overall Length	3 Flute EDP#
1	0.062	1/4	1-1/2	3	TB-1-16
1.5	0.062	1/4	1-1/2	3	TB-1.5-16
2	0.062	1/4	1-1/2	3	TB-2-16
3	0.062	1/4	1	3	TB-3-16
5	0.062	1/4	5/8	3	TB-5-16
7	0.062	1/4	1/2	3	TB-7-16
1	0.093	3/8	1-3/4	4	TB-1-24
1.5	0.093	3/8	1-3/4	4	TB-1.5-24
2	0.093	3/8	1-3/4	4	TB-2-24
3	0.093	3/8	1-3/4	4	TB-3-24
5	0.093	3/8	1	4	TB-5-24
7	0.093	3/8	3/4	4	TB-7-24
3	0.125	1/2	2	4	TB-3-32
5	0.125	1/2	1-3/8	4	TB-5-32
7	0.125	1/2	1	4	TB-7-32

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# Tapered Rib Cutters



Solid Carbide Rib Cutters are available with a .008” - .010” Corner Radius or in Ball Nose styles. They are also available with the following tapers:

(measured in degrees from centerline)

0, .5, 1, 1.5, 2, 3

*When ordering please specify Ball Nose or Corner Radius and the desired taper.*

## 4 Flute Solid Micro-Grain Carbide

? = Required Taper of 0, .5, 1.5, 2, 3 Degrees from Centerline

Cutting Diameter	Shank Diameter	Flute Length	Overall Length	Corner Radius	Ball Nose
				EDP#	EDP#
<b>Short</b>					
.030	3/16	.210	3	CSR-.03-?	BSR-.03-?
.040	3/16	.280	3	CSR-.04-?	BSR-.04-?
.050	3/16	.350	3	CSR-.05-?	BSR-.05-?
.060	3/16	.420	3	CSR-.06-?	BSR-.06-?
.070	3/16	.490	3	CSR-.07-?	BSR-.07-?
.080	3/16	.560	3	CSR-.08-?	BSR-.08-?
.090	3/16	.630	3	CSR-.09-?	BSR-.09-?
.100	3/16	.700	3	CSR-.100-?	BSR-.100-?
.125	3/16	.875	3	CSR-.125-?	BSR-.125-?
<b>Long</b>					
.030	3/16	.420	3	CLR-.03-?	BLR-.03-?
.040	3/16	.560	3	CLR-.04-?	BLR-.04-?
.050	3/16	.700	3	CLR-.05-?	BLR-.05-?
.060	3/16	.840	3	CLR-.06-?	BLR-.06-?
.070	3/16	.980	3	CLR-.07-?	BLR-.07-?
.080	3/16	1.120	3	CLR-.08-?	BLR-.08-?
.090	3/16	1.260	3	CLR-.09-?	BLR-.09-?
.100	3/16	1.400	3	CLR-.100-?	BLR-.100-?
.125	3/16	1.750	3	CLR-.125-?	BLR-.125-?

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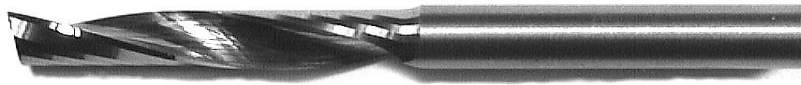
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# One Flute End Mills



**WOW!** This uniquely designed one flute tool is engineered for machining many diverse materials such as aluminum, acrylic, plastic, wood, sign foam and MDF. The special end tooth configuration allows very aggressive drill-type penetration when a new hole or cut is started. Helical flute geometry gives much smoother “cuts” and surface finishes, while allowing for a much higher chip evacuation when milling a groove. These tools are manufactured using high-grade micro grained tungsten carbide with a transverse rupture strength in excess of 500,000 psi! This material and special end design gives superb strength and life to the corner and cutting edges.

Cutting Diameter	Shank Diameter	Cutting Length	Overall Length	EDP Number
0.0625	0.125	0.312	2.0	S1-4
0.0937	0.125	0.437	2.0	S1-6
0.1250	0.125	0.560	2.0	S1-8
0.0625	0.250	0.312	2.0	S1-4/16
0.0937	0.250	0.437	2.0	S1-6/16
0.1250	0.250	0.560	2.0	S1-8/16
0.1875	0.250	0.560	2.0	S1-12/16
0.1875	0.250	0.810	2.0	S1-12/16-M
0.1875	0.250	1.060	2.5	S1-12/16-L
0.2500	0.250	0.625	2.0	S1-16
0.2500	0.250	0.810	2.0	S1-16-M
0.2500	0.250	1.060	2.0	S1-16-L
0.2500	0.250	1.560	3.0	S1-16-EL
0.3750	0.375	1.060	3.0	S1-24
0.3750	0.375	2.060	4.0	S1-24-EL

TOLERANCES: Cutting Diameter up to .500” +0 -.002 Over .500” +0 -.003 Shank Diameter +.0 -.0005

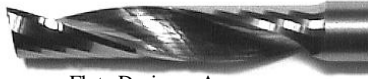
All tools can be quoted with wear-resistant coatings.



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# One Flute Engraver Mills



Flute Design – Appearance

<b>1/8" Shank x 4-1/2" Long</b>		
<b>Cutting Diameter</b>	<b>Flute Length</b>	<b>EDP#</b>
0.0625	3/16	GS1-4/8
0.0781	3/16	GS1-5/8
0.0937	1/4	GS1-6/8
0.1250	3/8	GS1-8/8
<b>11/64" Shank x 6-1/2" Long</b>		
0.0625	3/16	GS1-4/11
0.0781	3/16	GS1-5/11
0.0937	1/4	GS1-6/11
0.1250	3/8	GS1-8/11
0.1718	1/2	GS1-11/11
<b>1/4" Shank x 6-1/2" Long</b>		
0.0625	3/16	GS1-4/16
0.0781	3/16	GS1-5/16
0.0937	1/4	GS1-6/16
0.1250	3/8	GS1-8/16
0.1718	1/2	GS1-11/16
0.1875	1/2	GS1-12/16
0.2500	5/8	GS1-16/16
<b>Cutter Head Knobs are NOT Included</b>		

TOLERANCES: Cutting Diameter up to .500" +0 -.002 Over .500" +0 -.003 Shank Diameter +.0 - .0005

All tools can be quoted with wear-resistant coatings.



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# Square End Engraver Mills



<b>1/8" Shank x 4-1/2" Long</b>			
<b>Cutting Diameter</b>	<b>Flute Length</b>	<b>Two Flute EDP#</b>	<b>Four Flute EDP#</b>
0.0625	3/16	GS2-4/8	GS4-4/8
0.0781	3/16	GS2-5/8	GS4-5/8
0.0937	1/4	GS2-6/8	GS4-6/8
0.1250	3/8	GS2-8/8	GS4-8/8
<b>11/64" Shank x 6-1/2" Long</b>			
0.0625	3/16	GS2-4/11	GS4-4/11
0.0781	3/16	GS2-5/11	GS4-5/11
0.0937	1/4	GS2-6/11	GS4-6/11
0.1250	3/8	GS2-8/11	GS4-8/11
0.1718	1/2	GS2-11/11	GS4-11/11
<b>1/4" Shank x 6-1/2" Long</b>			
0.0625	3/16	GS2-4/16	GS4-4/16
0.0781	3/16	GS2-5/16	GS4-5/16
0.0937	1/4	GS2-6/16	GS4-6/16
0.1250	3/8	GS2-8/16	GS4-8/16
0.1718	1/2	GS2-11/16	GS4-11/16
0.1875	1/2	GS2-12/16	GS4-12/16
0.2500	5/8	GS2-16/16	GS4-16/16
<b>Cutter Head Knobs are NOT Included</b>			

TOLERANCES: Cutting Diameter up to .500" +0 -.002 Over .500" +0 -.003 Shank Diameter +.0 -.0005

All tools can be quoted with wear-resistant coatings.



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