

SPS-503 5 Flute Standard Length

Cutting Diameter	Shank Diameter	Flute Length	Corner Radius	Overall Length	Tool Number Flats, Coated	Tool Number No Flats, Coated
0.250	0.250	0.750	0.010	2.500	SPS-503-08-010-FL	SPS-503-08-010
0.250	0.250	0.750	0.030	2.500	SPS-503-08-030-FL	SPS-503-08-030
0.250	0.250	0.750	0.060	2.500	SPS-503-08-060-FL	SPS-503-08-060
0.250	0.250	0.750	BN	2.500	SPS-503-08-BN-FL	SPS-503-08-BN
0.375	0.375	1.000	0.010	2.500	SPS-503-12-010-FL	SPS-503-12-010
0.375	0.375	1.000	0.030	2.500	SPS-503-12-030-FL	SPS-503-12-030
0.375	0.375	1.000	0.060	2.500	SPS-503-12-060-FL	SPS-503-12-060
0.375	0.375	1.000	0.120	2.500	SPS-503-12-120-FL	SPS-503-12-120
0.375	0.375	1.000	BN	2.500	SPS-503-12-BN-FL	SPS-503-12-BN
0.500	0.500	1.250	0.010	3.000	SPS-503-16-010-FL	SPS-503-16-010
0.500	0.500	1.250	0.030	3.000	SPS-503-16-030-FL	SPS-503-16-030
0.500	0.500	1.250	0.060	3.000	SPS-503-16-060-FL	SPS-503-16-060
0.500	0.500	1.250	0.120	3.000	SPS-503-16-120-FL	SPS-503-16-120
0.500	0.500	1.250	BN	3.000	SPS-503-16-BN-FL	SPS-503-16-BN
0.625	0.625	2.000	0.010	3.500	SPS-503-20-010-FL	SPS-503-20-010
0.625	0.625	2.000	0.030	3.500	SPS-503-20-030-FL	SPS-503-20-030
0.625	0.625	2.000	0.060	3.500	SPS-503-20-060-FL	SPS-503-20-060
0.625	0.625	2.000	0.120	3.500	SPS-503-20-120-FL	SPS-503-20-120
0.625	0.625	2.000	BN	3.500	SPS-503-20-BN-FL	SPS-503-20-BN
0.750	0.750	1.625	0.010	4.000	SPS-503-24-010-FL	SPS-503-24-010
0.750	0.750	1.625	0.030	4.000	SPS-503-24-030-FL	SPS-503-24-030
0.750	0.750	1.625	0.060	4.000	SPS-503-24-060-FL	SPS-503-24-060
0.750	0.750	1.625	0.120	4.000	SPS-503-24-120-FL	SPS-503-24-120
0.750	0.750	1.625	0.190	4.000	SPS-503-24-190-FL	SPS-503-24-190
0.750	0.750	1.625	0.250	4.000	SPS-503-24-250-FL	SPS-503-24-250
0.750	0.750	1.625	BN	4.000	SPS-503-24-BN-FL	SPS-503-24-BN
1.000	1.000	2.625	0.010	5.000	SPS-503-32-010-FL	SPS-503-32-010
1.000	1.000	2.625	0.030	5.000	SPS-503-32-030-FL	SPS-503-32-030
1.000	1.000	2.625	0.060	5.000	SPS-503-32-060-FL	SPS-503-32-060
1.000	1.000	2.625	0.120	5.000	SPS-503-32-120-FL	SPS-503-32-120
1.000	1.000	2.625	0.190	5.000	SPS-503-32-190-FL	SPS-503-32-190
1.000	1.000	2.625	0.250	5.000	SPS-503-32-250-FL	SPS-503-32-250
1.000	1.000	2.625	BN	5.000	SPS-503-32-BN-FL	SPS-503-32-BN

SPS-505 5 Flute Extra Long Length

Cutting Diameter	Shank Diameter	Flute Length	Corner Radius	Overall Length	Tool Number Flats, Coated	Tool Number No Flats, Coated
0.500	0.500	1.625	0.010	4.000	SPS-505-16-010-FL	SPS-505-16-010
0.500	0.500	1.625	0.030	4.000	SPS-505-16-030-FL	SPS-505-16-030
0.500	0.500	1.625	0.060	4.000	SPS-505-16-060-FL	SPS-505-16-060
0.500	0.500	1.625	0.120	4.000	SPS-505-16-120-FL	SPS-505-16-120
0.500	0.500	1.625	BN	4.000	SPS-505-16-BN-FL	SPS-505-16-BN
0.750	0.750	2.250	0.010	5.000	SPS-505-24-010-FL	SPS-505-24-010
0.750	0.750	2.250	0.030	5.000	SPS-505-24-030-FL	SPS-505-24-030
0.750	0.750	2.250	0.060	5.000	SPS-505-24-060-FL	SPS-505-24-060
0.750	0.750	2.250	0.120	5.000	SPS-505-24-120-FL	SPS-505-24-120
0.750	0.750	2.250	0.190	5.000	SPS-505-24-190-FL	SPS-505-24-190
0.750	0.750	2.250	0.250	5.000	SPS-505-24-250-FL	SPS-505-24-250
0.750	0.750	2.250	BN	5.000	SPS-505-24-BN-FL	SPS-505-24-BN

Add Flats for High Torque Cuts!



Different Corner Radii Available

Add -CR and desired corner radius size

Example:
SPS-503-12-**CR.050**
for a .050" corner radius

WE PROVIDE INCREDIBLY EFFECTIVE SOLUTIONS FOR THE MANUFACTURING INDUSTRY

- » Revolutionary New cutting tool technology
- » Highest Performance! Amazing Price Point!
- » 7 Standard Corner Radii Available (many more upon request)
- » All tools are in stock
- » All Super Python Series tools are center-cutting

*"Whoa! I would have never believed it....
My 26 week inconel project is finished in 2 weeks"*
— Rob T.

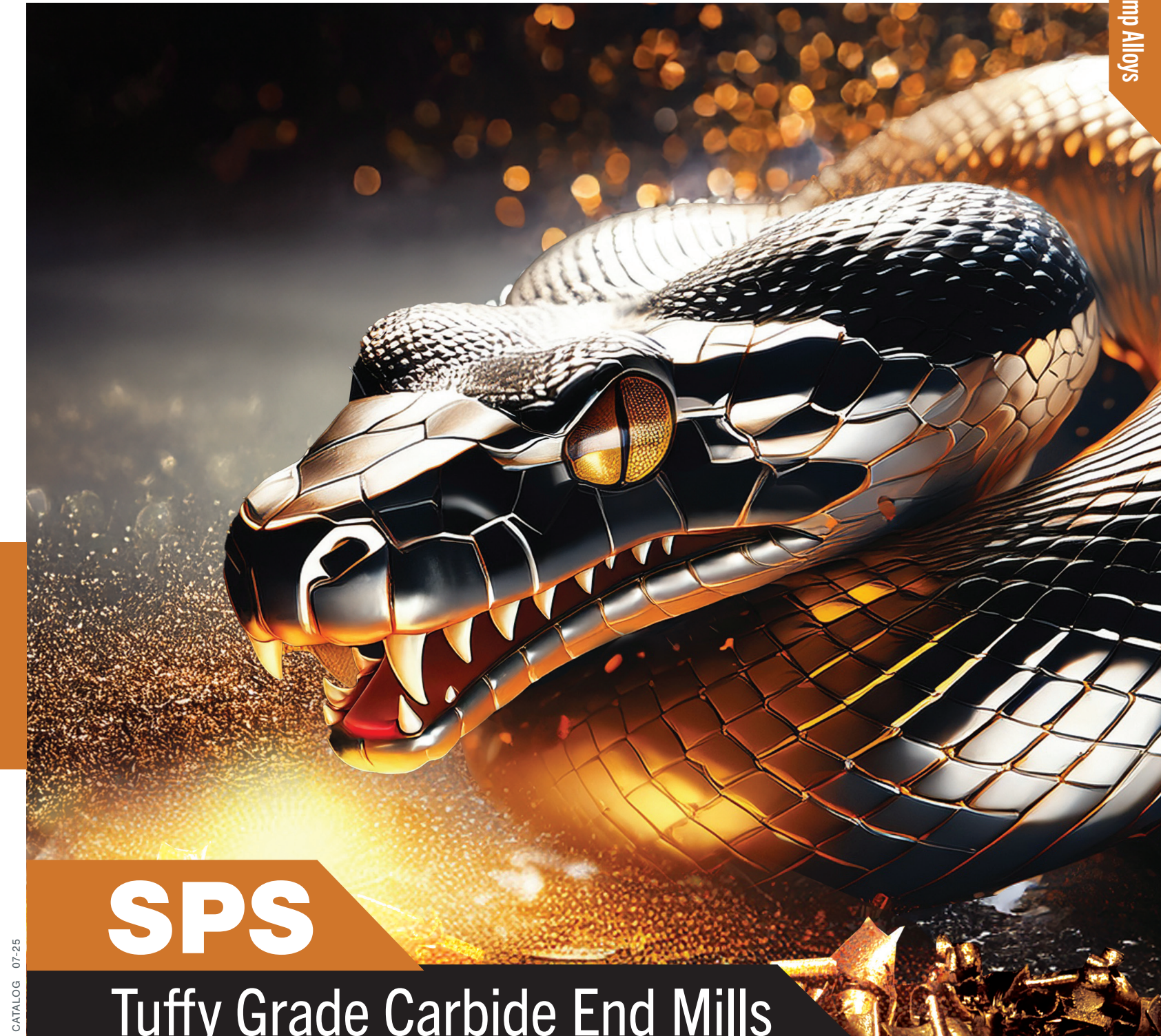
Inconel 718
1/4" diameter SPS-401-08-060
.25" wide (full slot) .190" axial depth
2.75 ipm 1146 RPM
1000% increase in metal removal rate

"They kick butt...., making me tons of money."
— James S.



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SPS

Tuffy Grade Carbide End Mills

RobbJack's New Super Python Series

**Strikes Harder! Cuts Faster! Squeeze every Cubic Inch of Material out of:
Stainless Steel, Super Alloys, Inconel, Steels, Titanium**

SPS Tuffy Grade Carbide End Mills

Characteristics

Corner Radius

4 Flute

5 Flute

a

b

Variable Helix

Center Cutting

Flats

Applications

Slotting

Side Milling

Helical Interpolation

Ramping

High Performance

Roughing

Semi-Finishing

Finishing

Dry

Wet

Cold Air

Spray Mist

Materials

Ti

Cast Iron

Steel

Stainless Steel

SUPER Alloys

40 HRC

Coatings

Coated

SPS Tolerances

Cutting Dia. = -.001/- .002

Shank Dia. = -.0001/- .0002

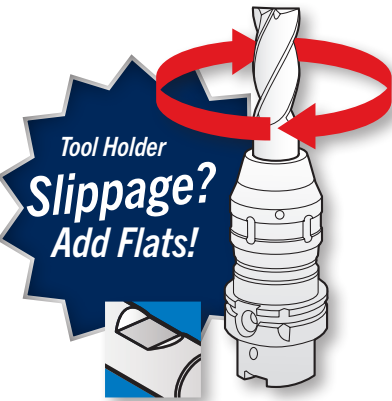
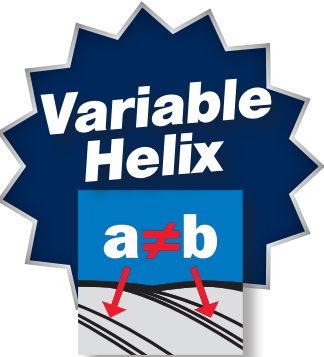
Flute Length = +.060/- .000

OAL = +/- .060



SPS-401 4 Flute Stub Length

Cutting Diameter	Shank Diameter	Flute Length	Corner Radius	Overall Length	Tool Number Flats, Coated	Tool Number No Flats, Coated
0.250	0.250	0.500	0.010	2.500	SPS-401-08-010-FL	SPS-401-08-010
0.250	0.250	0.500	0.030	2.500	SPS-401-08-030-FL	SPS-401-08-030
0.250	0.250	0.500	0.060	2.500	SPS-401-08-060-FL	SPS-401-08-060
0.250	0.250	0.500	BN	2.500	SPS-401-08-BN-FL	SPS-401-08-BN
0.375	0.375	0.500	0.010	2.500	SPS-401-12-010-FL	SPS-401-12-010
0.375	0.375	0.500	0.030	2.500	SPS-401-12-030-FL	SPS-401-12-030
0.375	0.375	0.500	0.060	2.500	SPS-401-12-060-FL	SPS-401-12-060
0.375	0.375	0.500	0.120	2.500	SPS-401-12-120-FL	SPS-401-12-120
0.375	0.375	0.500	BN	2.500	SPS-401-12-BN-FL	SPS-401-12-BN
0.500	0.500	0.625	0.010	3.000	SPS-401-16-010-FL	SPS-401-16-010
0.500	0.500	0.625	0.030	3.000	SPS-401-16-030-FL	SPS-401-16-030
0.500	0.500	0.625	0.060	3.000	SPS-401-16-060-FL	SPS-401-16-060
0.500	0.500	0.625	0.120	3.000	SPS-401-16-120-FL	SPS-401-16-120
0.500	0.500	0.625	BN	3.000	SPS-401-16-BN-FL	SPS-401-16-BN
0.625	0.625	1.250	0.010	3.500	SPS-401-20-010-FL	SPS-401-20-010
0.625	0.625	1.250	0.030	3.500	SPS-401-20-030-FL	SPS-401-20-030
0.625	0.625	1.250	0.060	3.500	SPS-401-20-060-FL	SPS-401-20-060
0.625	0.625	1.250	0.120	3.500	SPS-401-20-120-FL	SPS-401-20-120
0.625	0.625	1.250	BN	3.500	SPS-401-20-BN-FL	SPS-401-20-BN
0.750	0.750	1.000	0.010	4.000	SPS-401-24-010-FL	SPS-401-24-010
0.750	0.750	1.000	0.030	4.000	SPS-401-24-030-FL	SPS-401-24-030
0.750	0.750	1.000	0.060	4.000	SPS-401-24-060-FL	SPS-401-24-060
0.750	0.750	1.000	0.120	4.000	SPS-401-24-120-FL	SPS-401-24-120
0.750	0.750	1.000	0.190	4.000	SPS-401-24-190-FL	SPS-401-24-190
0.750	0.750	1.000	0.250	4.000	SPS-401-24-250-FL	SPS-401-24-250
0.750	0.750	1.000	BN	4.000	SPS-401-24-BN-FL	SPS-401-24-BN
1.000	1.000	1.250	0.010	4.000	SPS-401-32-010-FL	SPS-401-32-010
1.000	1.000	1.250	0.030	4.000	SPS-401-32-030-FL	SPS-401-32-030
1.000	1.000	1.250	0.060	4.000	SPS-401-32-060-FL	SPS-401-32-060
1.000	1.000	1.250	0.120	4.000	SPS-401-32-120-FL	SPS-401-32-120
1.000	1.000	1.250	0.190	4.000	SPS-401-32-190-FL	SPS-401-32-190
1.000	1.000	1.250	0.250	4.000	SPS-401-32-250-FL	SPS-401-32-250
1.000	1.000	1.250	BN	4.000	SPS-401-32-BN-FL	SPS-401-32-BN



Different Corner Radii Available

Add -CR and desired corner radius size

Example:
SPS-401-12-**CR.050**
for a .050" corner radius

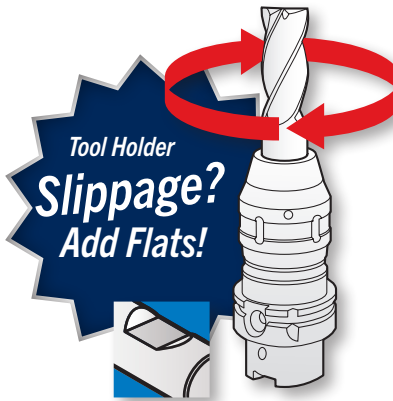


SPS-403 4 Flute Standard Length

Cutting Diameter	Shank Diameter	Flute Length	Corner Radius	Overall Length	Tool Number Flats, Coated	Tool Number No Flats, Coated
0.250	0.250	0.750	0.010	2.500	SPS-403-08-010-FL	SPS-403-08-010
0.250	0.250	0.750	0.030	2.500	SPS-403-08-030-FL	SPS-403-08-030
0.250	0.250	0.750	0.060	2.500	SPS-403-08-060-FL	SPS-403-08-060
0.250	0.250	0.750	BN	2.500	SPS-403-08-BN-FL	SPS-403-08-BN
0.375	0.375	1.000	0.010	2.500	SPS-403-12-010-FL	SPS-403-12-010
0.375	0.375	1.000	0.030	2.500	SPS-403-12-030-FL	SPS-403-12-030
0.375	0.375	1.000	0.060	2.500	SPS-403-12-060-FL	SPS-403-12-060
0.375	0.375	1.000	0.120	2.500	SPS-403-12-120-FL	SPS-403-12-120
0.375	0.375	1.000	BN	2.500	SPS-403-12-BN-FL	SPS-403-12-BN
0.500	0.500	1.250	0.010	3.000	SPS-403-16-010-FL	SPS-403-16-010
0.500	0.500	1.250	0.030	3.000	SPS-403-16-030-FL	SPS-403-16-030
0.500	0.500	1.250	0.060	3.000	SPS-403-16-060-FL	SPS-403-16-060
0.500	0.500	1.250	0.120	3.000	SPS-403-16-120-FL	SPS-403-16-120
0.500	0.500	1.250	BN	3.000	SPS-403-16-BN-FL	SPS-403-16-BN
0.625	0.625	2.000	0.010	3.500	SPS-403-20-010-FL	SPS-403-20-010
0.625	0.625	2.000	0.030	3.500	SPS-403-20-030-FL	SPS-403-20-030
0.625	0.625	2.000	0.060	3.500	SPS-403-20-060-FL	SPS-403-20-060
0.625	0.625	2.000	0.120	3.500	SPS-403-20-120-FL	SPS-403-20-120
0.625	0.625	2.000	BN	3.500	SPS-403-20-BN-FL	SPS-403-20-BN
0.750	0.750	1.625	0.010	4.000	SPS-403-24-010-FL	SPS-403-24-010
0.750	0.750	1.625	0.030	4.000	SPS-403-24-030-FL	SPS-403-24-030
0.750	0.750	1.625	0.060	4.000	SPS-403-24-060-FL	SPS-403-24-060
0.750	0.750	1.625	0.120	4.000	SPS-403-24-120-FL	SPS-403-24-120
0.750	0.750	1.625	0.190	4.000	SPS-403-24-190-FL	SPS-403-24-190
0.750	0.750	1.625	0.250	4.000	SPS-403-24-250-FL	SPS-403-24-250
0.750	0.750	1.625	BN	4.000	SPS-403-24-BN-FL	SPS-403-24-BN
1.000	1.000	2.625	0.010	5.000	SPS-403-32-010-FL	SPS-403-32-010
1.000	1.000	2.625	0.030	5.000	SPS-403-32-030-FL	SPS-403-32-030
1.000	1.000	2.625	0.060	5.000	SPS-403-32-060-FL	SPS-403-32-060
1.000	1.000	2.625	0.120	5.000	SPS-403-32-120-FL	SPS-403-32-120
1.000	1.000	2.625	0.190	5.000	SPS-403-32-190-FL	SPS-403-32-190
1.000	1.000	2.625	0.250	5.000	SPS-403-32-250-FL	SPS-403-32-250
1.000	1.000	2.625	BN	5.000	SPS-403-32-BN-FL	SPS-403-32-BN

SPS-405 4 Flute Extra Long Length

Cutting Diameter	Shank Diameter	Flute Length	Corner Radius	Overall Length	Tool Number Flats, Coated	Tool Number No Flats, Coated
0.500	0.500	1.625	0.010	4.000	SPS-405-16-010-FL	SPS-405-16-010
0.500	0.500	1.625	0.030	4.000	SPS-405-16-030-FL	SPS-405-16-030
0.500	0.500	1.625	0.060	4.000	SPS-405-16-060-FL	SPS-405-16-060
0.500	0.500	1.625	0.120	4.000	SPS-405-16-120-FL	SPS-405-16-120
0.500	0.500	1.625	BN	4.000	SPS-405-16-BN-FL	SPS-405-16-BN
0.750	0.750	2.250	0.010	5.000	SPS-405-24-010-FL	SPS-405-24-010
0.750	0.750	2.250	0.030	5.000	SPS-405-24-030-FL	SPS-405-24-030
0.750	0.750	2.250	0.060	5.000	SPS-405-24-060-FL	SPS-405-24-060
0.750	0.750	2.250	0.120	5.000	SPS-405-24-120-FL	SPS-405-24-120
0.750	0.750	2.250	0.190	5.000	SPS-405-24-190-FL	SPS-405-24-190
0.750	0.750	2.250	0.250	5.000	SPS-405-24-250-FL	SPS-405-24-250
0.750	0.750	2.250	BN	5.000	SPS-405-24-BN-FL	SPS-405-24-BN



Different Corner Radii Available

Add -CR and desired corner radius size

Example:
SPS-401-12-**CR.050**
for a .050" corner radius



SPS-501 5 Flute Stub Length

Cutting Diameter	Shank Diameter	Flute Length	Corner Radius	Overall Length	Tool Number Flats, Coated	Tool Number No Flats, Coated
0.250	0.250	0.500	0.010	2.500	SPS-501-08-010-FL	SPS-501-08-010
0.250	0.250	0.500	0.030	2.500	SPS-501-08-030-FL	SPS-501-08-030
0.250	0.250	0.500	0.060	2.500	SPS-501-08-060-FL	SPS-501-08-060
0.250	0.250	0.500	BN	2.500	SPS-501-08-BN-FL	SPS-501-08-BN
0.375	0.375	0.500	0.010	2.500	SPS-501-12-010-FL	SPS-501-12-010
0.375	0.375	0.500	0.030	2.500	SPS-501-12-030-FL	SPS-501-12-030
0.375	0.375	0.500	0.060	2.500	SPS-501-12-060-FL	SPS-501-12-060
0.375	0.375	0.500	0.120	2.500	SPS-501-12-120-FL	SPS-501-12-120
0.375	0.375	0.500	BN	2.500	SPS-501-12-BN-FL	SPS-501-12-BN
0.500	0.500	0.625	0.010	3.000	SPS-501-16-010-FL	SPS-501-16-010
0.500	0.500	0.625	0.030	3.000	SPS-501-16-030-FL	SPS-501-16-030
0.500	0.500	0.625	0.060	3.000	SPS-501-16-060-FL	SPS-501-16-060
0.500	0.500	0.625	0.120	3.000	SPS-501-16-120-FL	SPS-501-16-120
0.500	0.500	0.625	BN	3.000	SPS-501-16-BN-FL	SPS-501-16-BN
0.625	0.625	1.250	0.010	3.500	SPS-501-20-010-FL	SPS-501-20-010
0.625	0.625	1.250	0.030	3.500	SPS-501-20-030-FL	SPS-501-20-030
0.625	0.625	1.250	0.060	3.500	SPS-501-20-060-FL	SPS-501-20-060
0.625	0.625	1.250	0.120	3.500	SPS-501-20-120-FL	SPS-501-20-120
0.625	0.625	1.250	BN	3.500	SPS-501-20-BN-FL	SPS-501-20-BN
0.750	0.750	1.000	0.010	4.000	SPS-501-24-010-FL	SPS-501-24-010
0.750	0.750	1.000	0.030	4.000	SPS-501-24-030-FL	SPS-501-24-030
0.750	0.750	1.000	0.060	4.000	SPS-501-24-060-FL	SPS-501-24-060
0.750	0.750	1.000	0.120	4.000	SPS-501-24-120-FL	SPS-501-24-120
0.750	0.750	1.000	0.190	4.000	SPS-501-24-190-FL	SPS-501-24-190
0.750	0.750	1.000	0.250	4.000	SPS-501-24-250-FL	SPS-501-24-250
0.750	0.750	1.000	BN	4.000	SPS-501-24-BN-FL	SPS-501-24-BN
1.000	1.000	1.250	0.010	4.000	SPS-501-32-010-FL	SPS-501-32-010
1.000	1.000	1.250	0.030	4.000	SPS-501-32-030-FL	SPS-501-32-030
1.000	1.000	1.250	0.060	4.000	SPS-501-32-060-FL	SPS-501-32-060
1.000	1.000	1.250	0.120	4.000	SPS-501-32-120-FL	SPS-501-32-120
1.000	1.000	1.250	0.190	4.000	SPS-501-32-190-FL	SPS-501-32-190
1.000	1.000	1.250	0.250	4.000	SPS-501-32-250-FL	SPS-501-32-250
1.000	1.000	1.250	BN	4.000	SPS-501-32-BN-FL	SPS-501-32-BN

Different Corner Radii Available

Add -CR and desired corner radius size

Example:
SPS-401-12-**CR.050**
for a .050" corner radius