

WHITNEY TOOL

COMPANY, INC.

2022 CATALOG





MADE IN THE USA

CELEBRATING
OVER 50 YEARS



ON THE CUTTING EDGE

Whitney Tool Company's remarkable growth in recent years has been, and continues to be, driven by aggressive new product development and acquisition.

Always recognized as the market leader in all types of specialty milling cutters, Whitney Tool has now successfully branched into ever broadening fields of cutting tools and machining accessories:

- Tapered End Mills
- High Performance Countersinks
- Carbide Tipped Side Mills and Slitting Saws
- Tap Extensions to 1" NPT
- Drill Extensions to 9/16"
- Full range of specialty materials and PVD coatings
- A complete line of miniature Solid Carbide Keyseat and Dovetail Milling Cutters as small as 1/16" Dia.

Additionally, Whitney Tool is the industry leader in the manufacture of de-burring tools with the ground-breaking Burr-Zit and Handi-Burr lines. Many standard options are available, as well as individually engineered solutions for difficult deburring applications.

CUSTOM MADE CUTTING TOOLS

While our product offering will continue to grow rapidly in response to our customers' cutting tool needs, we remain the industry leader in the manufacture of custom-made cutting tools. We specialize in shank type and arbor type milling cutters in high speed steel, cobalt, carbide tipped and solid carbide, built to customer specification. We do our own heat treating, which gives us maximum control over quality and scheduling of your custom-made cutter.

Half of our business is special build-to-print cutting tools. We manufacture them every day. **Use the form on page 86** - on our website or from our catalog - to contact us regarding your special cutting tool needs. You will find our prices, quality and delivery to be outstanding.

Sets

EDP No.	Item	Description
COUNTERBORE SETS		
10574	HSS Metric Bolt Size Solid Pilot Counterbore Set	Six Piece Set of Metric Counterbores; includes 3mm, 4mm, 5mm, 6mm, 8mm and 10mm
20574	M42 Metric Bolt Size Solid Pilot Counterbore Set	Six Piece Set of Metric Counterbores; includes 3mm, 4mm, 5mm, 6mm, 8mm and 10mm
97190	HSS Bolt Size Solid Pilot	HSS 10 Piece Solid Pilot Bolt Size Counterbore Set, Includes Sizes: #4, #5, #6, #8, #10, 1/4", 5/16", 3/8", 7/16" and 1/2"
97191	M42 Bolt Size Solid Pilot	M42 10 Piece Solid Pilot Bolt Size Counterbore Set, Includes Sizes: #4, #5, #6, #8, #10, 1/4", 5/16", 3/8", 7/16" and 1/2"
97192	HSS Interchangeable Pilot	HSS 15 Piece Interchangeable Pilot Counterbore Set, Includes 1/4", 5/16", 3/8", 7/16" and 1/2" Counterbores. Also includes Pilots: 1/8", 5/32", 3/16" and 1/4" Diameters with 3/32" Shank; 3/16", 7/32", 1/4" and 5/16" Diameters with 5/32" Shank, 1/4" and 5/16" Diameters with 3/16" Shank
Drill Extension Sets		
97220	Series #1; 4" Long	15 Piece; Includes: One 4" Long Extension Body 1/16", 5/64", #43, 3/32", #40, #36, 7/64", 1/8", #30, #29, 9/64", #26, 5/32" and #21 Collets
97221	Series #1; 9" Long	15 Piece; Includes: One 9" Long Extension Body 1/16", 5/64", #43, 3/32", #40, #36, 7/64", 1/8", #30, #29, 9/64", #26, 5/32" and #21 Collets
97222	Series #2; 4" Long	15 Piece; Includes: One 4" Long Extension Body 1/8", #26, #25, #18, #17, 11/64", #16, #15, 3/16", #11, 13/64", 7/32", 15/64" and 1/4" Collets
97223	Series #2; 9" Long	15 Piece; Includes: One 9" Long Extension Body 1/8", #26, #25, #18, #17, 11/64", #16, #15, 3/16", #11, 13/64", 7/32", 15/64" and 1/4" Collets
97224	Series #3; 4" Long	6 Piece; Includes: One 4" Long Extension Body 1/4", 17/64", 9/32", 19/64" and 5/16" Collets
97225	Series #3; 9" Long	6 Piece; Includes: One 9" Long Extension Body 1/4", 17/64", 9/32", 19/64" and 5/16" Collets
Tap Extension Sets		
96119	5" Tap Extensions	9-piece set w/Case includes WTC No. 96089 thru 96097
96120	9" Tap Extensions	9-piece set w/Case includes WTC No. 96099 thru 96107
BURR-ZIT™ 6 PIECE TOOLKIT		
80350	Uncoated	6 Piece kit includes the following sizes: 1/8", 5/32", 3/16", 1/4", 5/16" and 3/8"
85350	PVD Coated	6 Piece kit includes the following sizes: 1/8", 5/32", 3/16", 1/4", 5/16" and 3/8"
BURR-ZIT™ 10 PIECE TOOLKIT		
80351	Uncoated	10 Piece kit includes the following sizes: 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 3/8", 7/16" and 1/2"
85351	PVD Coated	10 Piece kit includes the following sizes: 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 3/8", 7/16" and 1/2"

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Style 115 Decimal Width Slotting Cutter

» HIGH SPEED STEEL - STRAIGHT TOOTH

» Decimal Width - 1/2" x 2" Shank

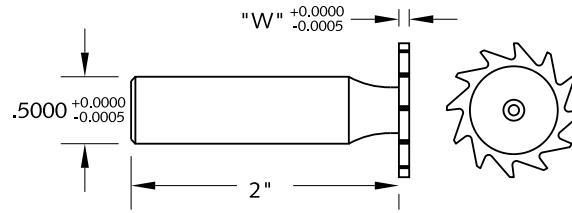
Diameter Tolerances:

Up to 3/4" + .010 / +.015

7/8" to 1-1/8" + .012 / +.017

1-1/4" to 1-1/2" + .015 / +.020

Standard Width Tolerance -.0005



Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1/4"	8	0.105	.015 - .070	50110	
5/16"			.015 - .067	50111	
			.068 - .100	50112	
3/8"		0.105	.015 - .067	50113	
			0.130	.068 - .099	50114
			0.150	.100 - .130	50115
1/2"	12	0.130	.015 - .052	50116	
		0.130	.053 - .067	50117	
	10	0.160	.068 - .099	50118	
		0.191	.100 - .130	50119	
		0.191	.015 - .052	50120	
5/8"	12	0.191	.053 - .083	50121	
			.084 - .099	50122	
	10	0.223	.100 - .130	50123	
		0.252	.131 - .161	50124	
		0.279	.162 - .190	50125	
3/4"	14	0.217	.020 - .067	50126	
			.068 - .099	50127	
	10	0.217	.100 - .130	50128	
		0.246	.131 - .161	50129	
		0.279	.162 - .192	50130	
7/8"	14	0.246	.030 - .067	50132	
			.068 - .099	50133	
			.100 - .130	50134	
	12	0.246	.131 - .161	50135	
		0.279	.162 - .193	50136	
1"	16	0.279	.030 - .067	50139	
			.068 - .099	50140	
			.100 - .130	50141	
			.131 - .161	50142	
	12	0.279	.162 - .193	50143	
		0.312	.194 - .224	50144	
		0.342	.225 - .255	50145	
		0.401	.256 - .317	50146	
		0.467	.318 - .380	50147	
		1-1/8"	16	0.312	.030 - .067
.068 - .099	50149				
.100 - .130	50150				
14	0.312		.162 - .193	50152	
	0.342		.194 - .224	50153	
1-1/4"	14	0.372	.225 - .255	50154	
			0.435	.256 - .315	50155

Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number			
1-1/4"	18	0.312	.030 - .067	50156			
			.068 - .099	50157			
			.100 - .130	50158			
			.131 - .177	50159			
			.178 - .193	50160			
	14	0.342	.194 - .224	50161			
		0.374	.225 - .255	50162			
		0.435	.256 - .318	50163			
		0.467	.319 - .380	50164			
		1-3/8"	18	0.401	.030 - .067	50165	
.068 - .099	50166						
.100 - .130	50167						
.131 - .161	50168						
.162 - .193	50169						
14	0.401		.194 - .255	50170			
	0.467		.256 - .317	50171			
	0.467		.318 - .380	50172			
	1-1/2"		20	0.435	.030 - .067	50173	
					.068 - .099	50174	
.100 - .130		50175					
.131 - .161		50176					
.162 - .193		50177					
14		0.435	.194 - .255	50178			
		0.467	.256 - .317	50179			
		0.467	.318 - .380	50180			
		1-3/4"	20	0.468	.090 - .099	50181	
					.100 - .130	50182	
.131 - .161	50183						
.162 - .193	50184						
.194 - .255	50185						
.256 - .317	50186						
.318 - .380	50187						
.381 - .505	50188						
2"	20				0.468	.090 - .099	50189
						.100 - .130	50190
		.131 - .161	50191				
		.162 - .193	50192				
		.194 - .255	50193				
		.256 - .317	50194				
		.318 - .380	50195				
		.381 - .505	50196				

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.

Example: 1/4" Dia X 0.0155 wide = 50110.0155

Example: 50110.0155R.015

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Style 115 Decimal Width Slotting Cutter

» HIGH SPEED STEEL - STRAIGHT TOOTH - PVD COATING

» Decimal Width - 1/2" X 2" Shank

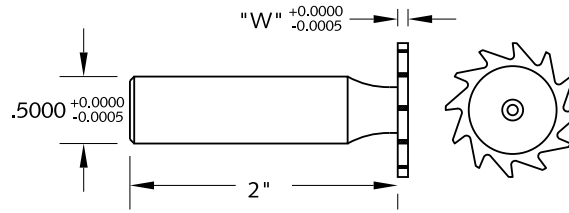
Diameter Tolerances:

Up to 3/4" + .010 /+ .015

7/8" to 1-1/8" + .012 /+ .017

1-1/4" to 1-1/2" + .015 /+ .020

Standard Width Tolerance -.0005



Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1/4"	8	0.105	.015 - .070	50210	
5/16"			.015 - .067	50211	
			.068 - .100	50212	
3/8"	8	0.105	.015 - .067	50213	
			0.13	.068 - .099	50214
			0.15	.100 - .130	50215
1/2"	12	0.13	.015 - .052	50216	
			0.13	.053 - .067	50217
	10	0.16	.068 - .099	50218	
0.191			.100 - .130	50219	
5/8"	12	0.191	.015 - .052	50220	
			.053 - .083	50221	
	10	0.191	.084 - .099	50222	
			0.223	.100 - .130	50223
			0.252	.131 - .161	50224
0.279	.162 - .190	50225			
3/4"	14	0.217	.020 - .067	50226	
			.068 - .099	50227	
	10	0.217	.100 - .130	50228	
			0.246	.131 - .161	50229
			0.279	.162 - .192	50230
0.342	.193 - .255	50231			
7/8"	14	0.246	.030 - .067	50232	
			.068 - .099	50233	
			.100 - .130	50234	
	12	0.246	.131 - .161	50235	
			0.279	.162 - .193	50236
0.312	.194 - .224	50237			
0.342	.225 - .255	50238			
1"	16	0.279	.030 - .067	50239	
			.068 - .099	50240	
			.100 - .130	50241	
			.131 - .161	50242	
	12	0.279	.162 - .193	50243	
			0.312	.194 - .224	50244
			0.342	.225 - .255	50245
0.401	.256 - .317	50246			
0.467	.318 - .380	50247			
1-1/8"	16	0.312	.030 - .067	50248	
			.068 - .099	50249	
			.100 - .130	50250	
			.131 - .161	50251	
	14	0.312	.162 - .193	50252	
			0.342	.194 - .224	50253
			0.372	.225 - .255	50254
0.435	.256 - .315	50255			

Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1-1/4"	18	0.312	.030 - .067	50256	
			.068 - .099	50257	
			.100 - .130	50258	
			.131 - .177	50259	
	14	0.312	.178 - .193	50260	
0.342			.194 - .224	50261	
0.374			.225 - .255	50262	
0.435			.256 - .318	50263	
1-3/8"	18	0.401	.030 - .067	50264	
			.068 - .099	50265	
			.100 - .130	50266	
			.131 - .161	50267	
	14	0.401	.162 - .193	50268	
0.467			.194 - .255	50269	
0.467			.256 - .317	50270	
1-1/2"	20	0.435	.030 - .067	50271	
			.068 - .099	50272	
			.100 - .130	50273	
			.131 - .161	50274	
	14	0.435	.162 - .193	50275	
			0.467	.194 - .255	50276
			0.467	.256 - .317	50277
1-3/4"	20	0.468	.090 - .099	50278	
			.100 - .130	50279	
			.131 - .161	50280	
			.162 - .193	50281	
			.194 - .255	50282	
			.256 - .317	50283	
			.318 - .380	50284	
2"	20	0.468	.090 - .099	50285	
			.100 - .130	50286	
			.131 - .161	50287	
			.162 - .193	50288	
			.194 - .255	50289	
			.256 - .317	50290	
			.318 - .380	50291	
.381 - .505	50292				
.256 - .317	50293				
.318 - .380	50294				
.381 - .505	50295				

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.
- Add Coating Type to End

Example: 1/4" Dia X 0.0155 wide = 50210.0155

Example: 50210.0155R.015

Example: 50110.0155R.015TiAlN

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Made in USA

Style 115 Decimal Width Slotting Cutter

» HIGH SPEED STEEL - STAGGER TOOTH

» Decimal Width - 1/2" x 2" Shank

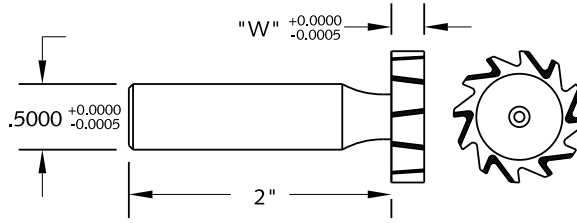
Diameter Tolerances:

Up to 3/4" + .010 / +.015

7/8" to 1-1/8" + .012 / +.017

1-1/4" to 1-1/2" + .015 / +.020

Standard Width Tolerance -.0005



Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1/4"	6	0.105	.015 - .070	50310	
5/16"			.015 - .067	50311	
			.068 - .100	50312	
			.015 - .067	50313	
3/8"			0.13	.068 - .099	50314
			0.15	.100 - .130	50315
	0.13	.015 - .052	50316		
1/2"	8	0.191	.015 - .052	50320	
			.053 - .083	50321	
			.084 - .099	50322	
			.100 - .130	50323	
5/8"	8	0.223	.100 - .130	50323	
			0.252	.131 - .161	50324
			0.279	.162 - .190	50325
			0.217	.020 - .067	50326
			0.217	.068 - .099	50327
			0.217	.100 - .130	50328
3/4"	10	0.246	.131 - .161	50329	
			.162 - .192	50330	
			.193 - .255	50331	
			.030 - .067	50332	
7/8"	10	0.246	.068 - .099	50333	
			.100 - .130	50334	
			.131 - .161	50335	
			.162 - .193	50336	
			.194 - .224	50337	
			.225 - .255	50338	
1"	12	0.279	.030 - .067	50339	
			.068 - .099	50340	
			.100 - .130	50341	
			.131 - .161	50342	
			.162 - .193	50343	
	10	0.467	.194 - .224	50344	
			.225 - .255	50345	
			.256 - .317	50346	
			.318 - .380	50347	
			.030 - .067	50348	
1-1/8"	12	0.312	.068 - .099	50349	
			.100 - .130	50350	
			.131 - .161	50351	
		0.312	.162 - .193	50352	
			0.342	.194 - .224	50353
			0.372	.225 - .255	50354
1-1/4"	10	0.435	.256 - .315	50355	

Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1-1/4"	14	0.312	.030 - .067	50356	
			.068 - .099	50357	
			.100 - .130	50358	
			.131 - .177	50359	
			.178 - .193	50360	
			.194 - .224	50361	
1-1/2"	12	0.342	.225 - .255	50362	
			0.435	.256 - .318	50363
			0.467	.319 - .380	50364
			0.401	.030 - .067	50365
1-3/8"	14	0.401	.068 - .099	50366	
			.100 - .130	50367	
			.131 - .161	50368	
			.162 - .193	50369	
			.194 - .255	50370	
			.256 - .317	50371	
1-1/2"	14	0.435	.318 - .380	50372	
			.030 - .067	50373	
			.068 - .099	50374	
			.100 - .130	50375	
			.131 - .161	50376	
			.162 - .193	50377	
1-3/4"	16	0.467	.194 - .255	50378	
			.256 - .317	50379	
			.318 - .380	50380	
			.090 - .099	50381	
			.100 - .130	50382	
			.131 - .161	50383	
1-3/4"	16	0.468	.162 - .193	50384	
			.194 - .255	50385	
			.256 - .317	50386	
			.318 - .380	50387	
			.381 - .505	50388	
			.090 - .099	50389	
2"	16	0.468	.100 - .130	50390	
			.131 - .161	50391	
			.162 - .193	50392	
			.194 - .255	50393	
			.256 - .317	50394	
			.318 - .380	50395	
2"	16	0.468	.381 - .505	50396	

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.

Example: 1/4" Dia X 0.0155 wide = 50310.0155
 Example: 50310.0155R.015

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Style 115 Decimal Width Slotting Cutter

» HIGH SPEED STEEL - STAGGER TOOTH - PVD COATING

» Decimal Width - 1/2" x 2" Shank

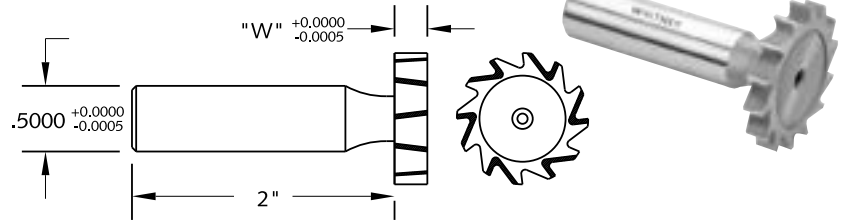
Diameter Tolerances:

Up to 3/4" + .010 /+ .015

7/8" to 1-1/8" + .012 /+ .017

1-1/4" to 1-1/2" + .015 /+ .020

Standard Width Tolerance -.0005



Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1/4"	6	0.105	.015 - .070	50410	
5/16"			.015 - .067	50411	
			.068 - .100	50412	
			.015 - .067	50413	
3/8"			0.13	.068 - .099	50414
			0.15	.100 - .130	50415
1/2"	8	0.13	.015 - .052	50416	
		0.13	.053 - .067	50417	
		0.16	.068 - .099	50418	
		0.191	.100 - .130	50419	
		0.191	.015 - .052	50420	
5/8"	8	0.191	.053 - .083	50421	
			.084 - .099	50422	
			.223	.100 - .130	50423
			.252	.131 - .161	50424
			.279	.162 - .190	50425
3/4"	10	0.217	.020 - .067	50426	
			.068 - .099	50427	
			0.217	.100 - .130	50428
			0.246	.131 - .161	50429
			0.279	.162 - .192	50430
7/8"	10	0.246	.193 - .255	50431	
			.030 - .067	50432	
			.068 - .099	50433	
			.100 - .130	50434	
			0.246	.131 - .161	50435
1"	12	0.279	.162 - .193	50436	
			.194 - .224	50437	
			.225 - .255	50438	
			.030 - .067	50439	
			.068 - .099	50440	
1-1/8"	12	0.279	.100 - .130	50441	
			.131 - .161	50442	
			0.279	.162 - .193	50443
			0.312	.194 - .224	50444
			0.342	.225 - .255	50445
1-1/4"	10	0.401	.256 - .317	50446	
			.318 - .380	50447	
			.030 - .067	50448	
			.068 - .099	50449	
			.100 - .130	50450	
1-1/2"	12	0.312	.131 - .161	50451	
			.162 - .193	50452	
			.342	.194 - .224	50453
			.372	.225 - .255	50454
			.435	.256 - .315	50455

Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1-1/4"	14	0.312	.030 - .067	50456	
			.068 - .099	50457	
			.100 - .130	50458	
			.131 - .177	50459	
			.178 - .193	50460	
			.194 - .224	50461	
1-3/8"	12	0.374	.225 - .255	50462	
			0.435	.256 - .318	50463
			0.467	.319 - .380	50464
			0.312	.030 - .067	50465
1-3/8"	14	0.401	.068 - .099	50466	
			.100 - .130	50467	
			.131 - .161	50468	
			.162 - .193	50469	
			0.401	.194 - .255	50470
			0.467	.256 - .317	50471
1-1/2"	14	0.435	.318 - .380	50472	
			.030 - .067	50473	
			.068 - .099	50474	
			.100 - .130	50475	
			.131 - .161	50476	
			.162 - .193	50477	
1-3/4"	16	0.467	.194 - .255	50478	
			.256 - .317	50479	
			.318 - .380	50480	
			.090 - .099	50481	
			.100 - .130	50482	
			.131 - .161	50483	
1-3/4"	16	0.468	.162 - .193	50484	
			.194 - .255	50485	
			.256 - .317	50486	
			.318 - .380	50487	
			.381 - .505	50488	
			.090 - .099	50489	
2"	16	0.468	.100 - .130	50490	
			.131 - .161	50491	
			.162 - .193	50492	
			.194 - .255	50493	
			.256 - .317	50494	
			.318 - .380	50495	
2"	16	0.468	.381 - .505	50496	

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.
- Add Coating Type to End

- Example: 1/4" Dia X 0.0155 wide = 50410.0155
- Example: 50410.0155R.015
- Example: 50410.0155R.015TiAlN

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

WHITNEYTOOL.COM

STYLE 115 DECIMAL WIDTH



Made in USA

Style 115 Decimal Width Slotting Cutter

» M42 COBALT - STRAIGHT TOOTH

» Decimal Width - 1/2" x 2" Shank

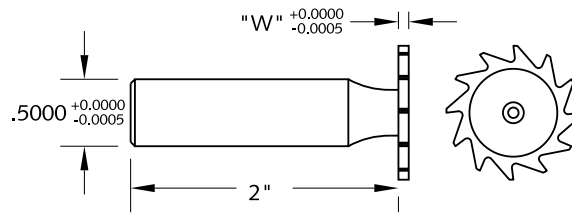
Diameter Tolerances:

Up to 3/4" + .010 /+ .015

7/8" to 1-1/8" + .012 /+ .017

1-1/4" to 1-1/2" + .015 /+ .020

Standard Width Tolerance -.0005



Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number
1/4"	8	0.105	.015 - .070	50510
5/16"			.015 - .067	50511
			.068 - .100	50512
3/8"	8	0.13	.015 - .067	50513
			.068 - .099	50514
			.100 - .130	50515
1/2"	12	0.13	.015 - .052	50516
	10	0.13	.053 - .067	50517
		0.16	.068 - .099	50518
		0.191	.100 - .130	50519
5/8"	12	0.191	.015 - .052	50520
			.053 - .083	50521
	10	0.191	.084 - .099	50522
		0.223	.100 - .130	50523
		0.252	.131 - .161	50524
		0.279	.162 - .190	50525
3/4"	14	0.217	.020 - .067	50526
			.068 - .099	50527
	10	0.217	.100 - .130	50528
		0.246	.131 - .161	50529
		0.279	.162 - .192	50530
		0.342	.193 - .255	50531
7/8"	14	0.246	.030 - .067	50532
			.068 - .099	50533
			.100 - .130	50534
	12	0.246	.131 - .161	50535
		0.279	.162 - .193	50536
		0.312	.194 - .224	50537
		0.342	.225 - .255	50538
1"	16	0.279	.030 - .067	50539
			.068 - .099	50540
			.100 - .130	50541
			.131 - .161	50542
	12	0.279	.162 - .193	50543
		0.312	.194 - .224	50544
		0.342	.225 - .255	50545
		0.401	.256 - .317	50546
		0.467	.318 - .380	50547
1-1/8"	16	0.312	.030 - .067	50548
			.068 - .099	50549
			.100 - .130	50550
			.131 - .161	50551
	14	0.312	.162 - .193	50552
		0.342	.194 - .224	50553
		0.372	.225 - .255	50554
		0.435	.256 - .315	50555

Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1-1/4"	18	0.312	.030 - .067	50556	
			.068 - .099	50557	
			.100 - .130	50558	
			.131 - .177	50559	
	14	0.312	.178 - .193	50560	
0.342			.194 - .224	50561	
0.374			.225 - .255	50562	
0.435			.256 - .318	50563	
0.467			.319 - .380	50564	
1-3/8"	18	0.401	.030 - .067	50565	
			.068 - .099	50566	
			.100 - .130	50567	
			.131 - .161	50568	
	14	0.401	.162 - .193	50569	
			0.467	.194 - .255	50570
			0.467	.256 - .317	50571
		0.467	.318 - .380	50572	
1-1/2"	20	0.435	.030 - .067	50573	
			.068 - .099	50574	
			.100 - .130	50575	
			.131 - .161	50576	
	14	0.435	.162 - .193	50577	
			0.467	.194 - .255	50578
			0.467	.256 - .317	50579
		0.467	.318 - .380	50580	
1-3/4"	20	0.468	.090 - .099	50581	
			.100 - .130	50582	
			.131 - .161	50583	
			.162 - .193	50584	
			.194 - .255	50585	
			.256 - .317	50586	
			.318 - .380	50587	
.381 - .505	50588				
2"	20	0.468	.090 - .099	50589	
			.100 - .130	50590	
			.131 - .161	50591	
			.162 - .193	50592	
			.194 - .255	50593	
			.256 - .317	50594	
			.318 - .380	50595	
.381 - .505	50596				

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.

Example: 1/4" Dia X 0.0155 wide = 50510.0155
 Example: 50510.0155R.015

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Style 115 Decimal Width Slotting Cutter

» M42 COBALT - STRAIGHT TOOTH - PVD COATING

» Decimal Width - 1/2" x 2" Shank

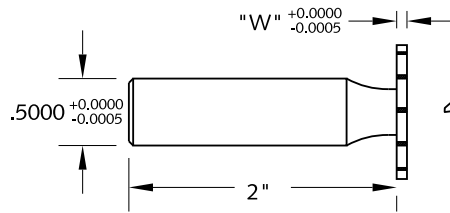
Diameter Tolerances:

Up to 3/4" + .010 /+ .015

7/8" to 1-1/8" + .012 /+ .017

1-1/4" to 1-1/2" + .015 /+ .020

Standard Width Tolerance -.0005



Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1/4"	8	0.105	.015 - .070	50610	
5/16"			.015 - .067	50611	
3/8"			.068 - .100	50612	
1/2"	12	0.13	.015 - .067	50613	
			.068 - .099	50614	
	10	0.15	.100 - .130	50615	
5/8"	12	0.13	.015 - .052	50616	
			.053 - .067	50617	
	10	0.16	.068 - .099	50618	
3/4"	12	0.191	.100 - .130	50619	
			.015 - .052	50620	
	10	0.191	.053 - .083	50621	
			.084 - .099	50622	
			.100 - .130	50623	
7/8"	10	0.223	.131 - .161	50624	
			0.252	.162 - .190	50625
	14	0.217	.020 - .067	50626	
			.068 - .099	50627	
1"	10	0.217	.100 - .130	50628	
			0.246	.131 - .161	50629
			0.279	.162 - .192	50630
	12	0.246	.193 - .255	50631	
			0.342	.193 - .255	50631
1-1/8"	14	0.246	.030 - .067	50632	
			.068 - .099	50633	
			.100 - .130	50634	
	12	0.246	.131 - .161	50635	
			.162 - .193	50636	
			.194 - .224	50637	
			.225 - .255	50638	
1-1/4"	16	0.279	.030 - .067	50639	
			.068 - .099	50640	
			.100 - .130	50641	
			.131 - .161	50642	
	12	0.279	.162 - .193	50643	
			0.312	.194 - .224	50644
			0.342	.225 - .255	50645
14	0.401	.256 - .317	50646		
		0.467	.318 - .380	50647	
1-1/2"	16	0.312	.030 - .067	50648	
			.068 - .099	50649	
			.100 - .130	50650	
			.131 - .161	50651	
	14	0.312	.162 - .193	50652	
			0.342	.194 - .224	50653
			0.372	.225 - .255	50654
14	0.435	.256 - .315	50655		

Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1-1/4"	18	0.312	.030 - .067	50656	
			.068 - .099	50657	
			.100 - .130	50658	
	14	0.312	.131 - .177	50659	
			.178 - .193	50660	
			0.342	.194 - .224	50661
0.374			.225 - .255	50662	
1-3/8"	18	0.401	.256 - .318	50663	
			.319 - .380	50664	
			.030 - .067	50665	
	14	0.401	.068 - .099	50666	
			.100 - .130	50667	
			.131 - .161	50668	
.162 - .193			50669		
1-1/2"	20	0.435	.194 - .255	50670	
			0.467	.256 - .317	50671
			0.467	.318 - .380	50672
	14	0.435	.030 - .067	50673	
			.068 - .099	50674	
			.100 - .130	50675	
.131 - .161			50676		
1-3/4"	20	0.468	.162 - .193	50677	
			.194 - .255	50678	
			0.467	.256 - .317	50679
	14	0.467	.318 - .380	50680	
			.090 - .099	50681	
			.100 - .130	50682	
2"	20	0.468	.131 - .161	50683	
			.162 - .193	50684	
			.194 - .255	50685	
			.256 - .317	50686	
	14	0.467	.318 - .380	50687	
			.381 - .505	50688	
			.090 - .099	50689	
14	0.468	.100 - .130	50690		
		.131 - .161	50691		
		.162 - .193	50692		
		.194 - .255	50693		
14	0.468	.256 - .317	50694		
		.318 - .380	50695		
14	0.468	.381 - .505	50696		

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.
- Add Coating Type to End

Example: 1/4" Dia X 0.0155 wide = 50610.0155

Example: 50610.0155R.015

Example: 50610.0155R.015TiAlN

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Made in USA

Style 115 Decimal Width Slotting Cutter

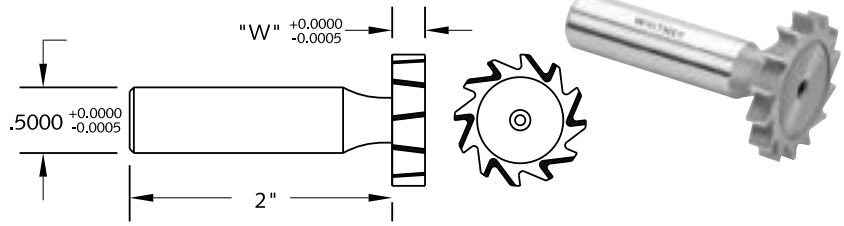
» M42 COBALT - STAGGER TOOTH

» Decimal Width - 1/2" x 2" Shank

Diameter Tolerances:

Up to 3/4" + .010 /+.015
 7/8" to 1-1/8" + .012 /+.017
 1-1/4" to 1-1/2" + .015 /+.020

Standard Width Tolerance -.0005



Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number	
1/4"	6	0.105	.015 - .070	50710	
5/16"			.015 - .067	50711	
			.068 - .100	50712	
			.015 - .067	50713	
3/8"	6	0.13	.068 - .099	50714	
		0.15	.100 - .130	50715	
1/2"	8	0.13	.015 - .052	50716	
			.053 - .067	50717	
			.068 - .099	50718	
			.100 - .130	50719	
5/8"	8	0.191	.015 - .052	50720	
			.053 - .083	50721	
			.084 - .099	50722	
			.100 - .130	50723	
			.252	.131 - .161	50724
3/4"	10	0.217	.162 - .190	50725	
			.020 - .067	50726	
			.068 - .099	50727	
			.100 - .130	50728	
			.246	.131 - .161	50729
7/8"	10	0.246	.162 - .192	50730	
			.342	.193 - .255	50731
			.030 - .067	50732	
			.068 - .099	50733	
			.100 - .130	50734	
1"	12	0.279	.131 - .161	50735	
			.162 - .193	50736	
			.194 - .224	50737	
			.225 - .255	50738	
			.342	.225 - .255	50739
1-1/8"	12	0.401	.030 - .067	50740	
			.068 - .099	50741	
			.100 - .130	50742	
			.131 - .161	50743	
			.162 - .193	50744	
1-1/4"	10	0.467	.194 - .224	50745	
			.225 - .255	50746	
			.256 - .317	50747	
			.318 - .380	50748	
			.467	.318 - .380	50749
1-1/2"	12	0.312	.381 - .505	50750	
			.030 - .067	50748	
			.068 - .099	50749	
			.100 - .130	50750	
			.131 - .161	50751	
1-3/4"	12	0.312	.162 - .193	50752	
			.194 - .224	50753	
			.225 - .255	50754	
			.256 - .315	50755	
			.435	.256 - .315	50755

Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number		
1-1/4"	14	0.312	.030 - .067	50756		
			.068 - .099	50757		
			.100 - .130	50758		
		1-3/8"	14	0.401	.131 - .177	50759
					.178 - .193	50760
					.194 - .224	50761
					.225 - .255	50762
1-1/2"	14	0.435	.256 - .318	50763		
			.319 - .380	50764		
			.467	.319 - .380	50765	
		1-3/4"	14	0.401	.030 - .067	50765
					.068 - .099	50766
					.100 - .130	50767
					.131 - .161	50768
1-1/2"	14	0.435	.162 - .193	50769		
			.194 - .255	50770		
			.256 - .317	50771		
			.318 - .380	50772		
			.467	.318 - .380	50773	
1-3/4"	16	0.468	.030 - .067	50773		
			.068 - .099	50774		
			.100 - .130	50775		
		1-1/2"	14	0.435	.131 - .161	50776
					.162 - .193	50777
					.194 - .255	50778
					.256 - .317	50779
1-3/4"	16	0.468	.318 - .380	50780		
			.090 - .099	50781		
			.100 - .130	50782		
			.131 - .161	50783		
			.162 - .193	50784		
2"	16	0.468	.194 - .255	50785		
			.256 - .317	50786		
			.318 - .380	50787		
			.381 - .505	50788		
			.090 - .099	50789		
2"	16	0.468	.100 - .130	50790		
			.131 - .161	50791		
			.162 - .193	50792		
			.194 - .255	50793		
			.256 - .317	50794		
2"	16	0.468	.318 - .380	50795		
			.381 - .505	50796		

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.

Example: 1/4" Dia X 0.0155 wide = 50710.0155
 Example: 50710.0155R.015

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

STYLE 115 DECIMAL WIDTH
 WHITNEY TOOL COMPANY, INC.
 Made in USA

Style 115 Decimal Width Slotting Cutter

» M42 COBALT - STAGGER TOOTH - PVD COATING

» Decimal Width - 1/2" x 2" Shank

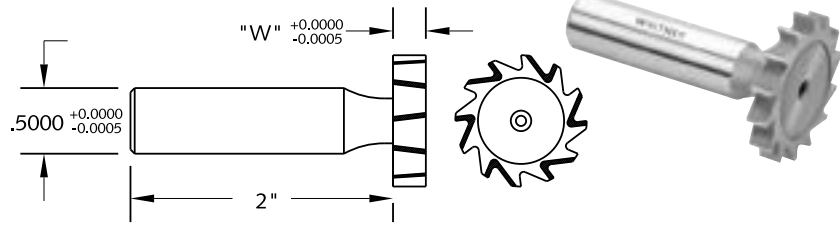
Diameter Tolerances:

Up to 3/4" +.010 /+0.015

7/8" to 1-1/8" +.012 /+0.017

1-1/4" to 1-1/2" +.015 /+0.020

Standard Width Tolerance -.0005



Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number
1/4"	6	0.105	.015 - .070	50810
5/16"			.015 - .067	50811
3/8"			.068 - .100	50812
			.015 - .067	50813
			.068 - .099	50814
1/2"			8	0.13
	.015 - .052	50816		
	.053 - .067	50817		
	.068 - .099	50818		
	.100 - .130	50819		
5/8"	8	0.191	.015 - .052	50820
			.053 - .083	50821
			.084 - .099	50822
			.100 - .130	50823
			.131 - .161	50824
			.162 - .190	50825
3/4"	10	0.217	.020 - .067	50826
			.068 - .099	50827
			.100 - .130	50828
			.131 - .161	50829
			.162 - .192	50830
			.193 - .255	50831
7/8"	10	0.246	.030 - .067	50832
			.068 - .099	50833
			.100 - .130	50834
			.131 - .161	50835
			.162 - .193	50836
			.194 - .224	50837
1"	12	0.279	.225 - .255	50838
			.030 - .067	50839
			.068 - .099	50840
			.100 - .130	50841
			.131 - .161	50842
			.162 - .193	50843
1-1/8"	12	0.312	.194 - .224	50844
			.225 - .255	50845
			.256 - .317	50846
			.318 - .380	50847
			.030 - .067	50848
			.068 - .099	50849
1-1/4"	12	0.312	.100 - .130	50850
			.131 - .161	50851
			.162 - .193	50852
			.194 - .224	50853
			.225 - .255	50854
			.256 - .315	50855

Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number
1-1/4"	14	0.312	.030 - .067	50856
			.068 - .099	50857
			.100 - .130	50858
			.131 - .177	50859
			.178 - .193	50860
			.194 - .224	50861
1-3/8"	14	0.401	.225 - .255	50862
			.256 - .318	50863
			.319 - .380	50864
			.030 - .067	50865
			.068 - .099	50866
			.100 - .130	50867
1-1/2"	14	0.435	.131 - .161	50868
			.162 - .193	50869
			.194 - .255	50870
			.256 - .317	50871
			.318 - .380	50872
			.030 - .067	50873
1-3/4"	16	0.468	.068 - .099	50874
			.100 - .130	50875
			.131 - .161	50876
			.162 - .193	50877
			.194 - .255	50878
			.256 - .317	50879
2"	16	0.468	.318 - .380	50880
			.090 - .099	50881
			.100 - .130	50882
			.131 - .161	50883
			.162 - .193	50884
			.194 - .255	50885
1-1/8"	12	0.467	.256 - .317	50886
			.318 - .380	50887
			.381 - .505	50888
			.090 - .099	50889
			.100 - .130	50890
			.131 - .161	50891
1-1/4"	12	0.467	.162 - .193	50892
			.194 - .255	50893
			.256 - .317	50894
			.318 - .380	50895
			.381 - .505	50896

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.
- Add Coating Type to End

Example: 1/4" Dia X 0.0155 wide = 50810.0155

Example: 50810.0155R.015

Example: 50810.0155R.015TiAlN

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Style 115 Decimal Width Slotting Cutter

» CARBIDE TIPPED - STRAIGHT & STAGGER TOOTH

» Decimal Width - 1/2" x 2" Shank

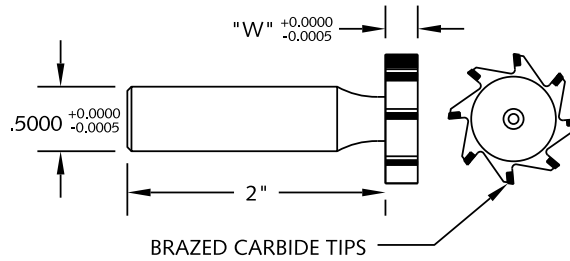
Diameter Tolerances:

Up to 3/4" + .010 /+.015

7/8" to 1-1/8" + .012 /+.017

1-1/4" to 1-1/2" + .015 /+.020

Standard Width Tolerance -.0005



STYLE 115 DECIMAL WIDTH

WHITNEYTOOL.COM



STRAIGHT TOOTH				
Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number
1/2"	6	0.13	.053 - .067	50910
		0.16	.068 - .099	50911
		0.191	.100 - .130	50912
5/8"		0.223	.100 - .130	50914
		0.252	.131 - .161	50915
		0.279	.162 - .190	50916
3/4"	0.217	.100 - .130	50917	
	0.246	.131 - .161	50918	
	0.279	.162 - .192	50919	
7/8"	0.342	.193 - .255	50920	
	0.246	.131 - .161	50921	
	0.279	.162 - .193	50922	
1"	0.312	.194 - .224	50923	
	0.342	.225 - .255	50924	
	0.279	.162 - .193	50925	
1-1/8"	0.312	.194 - .224	50926	
	0.342	.225 - .255	50927	
	0.401	.256 - .317	50928	
1-1/4"	0.467	.318 - .380	50929	
	0.312	.162 - .193	50930	
	0.342	.194 - .224	50931	
1-3/8"	0.374	.225 - .255	50932	
	0.435	.256 - .315	50933	
	0.312	.178 - .193	50934	
1-1/2"	0.342	.194 - .224	50935	
	0.374	.225 - .255	50936	
	0.435	.256 - .318	50937	
1-3/4"	0.467	.319 - .380	50938	
	0.401	.194 - .255	50939	
	0.467	.256 - .317	50940	
2"	0.435	.194 - .255	50942	
	0.467	.256 - .317	50943	
	0.312	.162 - .193	50944	
1-1/8"	0.342	.194 - .224	50945	
	0.374	.225 - .255	50946	
	0.435	.256 - .317	50947	
1-1/4"	0.467	.318 - .380	50948	
	0.312	.162 - .193	50949	
	0.342	.194 - .224	50950	
1-3/8"	0.374	.225 - .255	50951	
	0.435	.256 - .317	50952	
	0.467	.318 - .380	50953	

STAGGER TOOTH				
Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number
1/2"	6	0.13	.053 - .067	50955
		0.16	.068 - .099	50956
		0.191	.100 - .130	50957
5/8"		0.223	.100 - .130	50959
		0.252	.131 - .161	50960
		0.279	.162 - .190	50961
3/4"	0.217	.100 - .130	50962	
	0.246	.131 - .161	50963	
	0.279	.162 - .192	50964	
7/8"	0.342	.193 - .255	50965	
	0.246	.131 - .161	50966	
	0.279	.162 - .193	50967	
1"	0.312	.194 - .224	50968	
	0.342	.225 - .255	50969	
	0.279	.162 - .193	50970	
1-1/8"	0.312	.194 - .224	50971	
	0.342	.225 - .255	50972	
	0.401	.256 - .317	50973	
1-1/4"	0.467	.318 - .380	50974	
	0.312	.162 - .193	50975	
	0.342	.194 - .224	50976	
1-3/8"	0.374	.225 - .255	50977	
	0.435	.256 - .315	50978	
	0.312	.178 - .193	50979	
1-1/2"	0.342	.194 - .224	50980	
	0.374	.225 - .255	50981	
	0.435	.256 - .318	50982	
1-3/4"	0.467	.319 - .380	50983	
	0.401	.194 - .255	50984	
	0.467	.256 - .317	50985	
2"	0.435	.194 - .255	50987	
	0.467	.256 - .317	50988	
	0.312	.162 - .193	50989	
1-1/8"	0.342	.194 - .224	50990	
	0.374	.225 - .255	50991	
	0.435	.256 - .317	50992	
1-1/4"	0.467	.318 - .380	50993	
	0.312	.162 - .193	50994	
	0.342	.194 - .224	50995	
1-3/8"	0.374	.225 - .255	50996	
	0.435	.256 - .317	50997	
	0.467	.318 - .380	50998	

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.

Example: 1/4" Dia X 0.0550 wide = 50910.0550

Example: 50910.0550R.015

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Style 115 Decimal Width Slotting Cutter

» CARBIDE TIPPED - STRAIGHT & STAGGER TOOTH - PVD COATING

» Decimal Width - 1/2" x 2" Shank

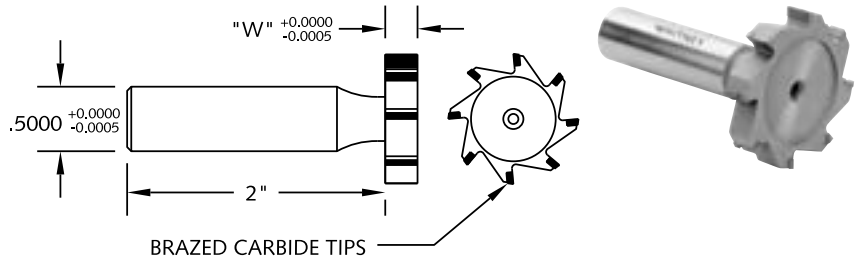
Diameter Tolerances:

Up to 3/4" + .010 /+ .015

7/8" to 1-1/8" + .012 /+ .017

1-1/4" to 1-1/2" + .015 /+ .020

Standard Width Tolerance -.0005



STRAIGHT TOOTH				
Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number
1/2"	6	0.13	.053 - .067	51025
		0.16	.068 - .099	51026
0.191		.100 - .130	51027	
		.084 - .099	51028	
5/8"		0.223	.100 - .130	51029
		0.252	.131 - .161	51030
		0.279	.162 - .190	51031
3/4"		0.217	.100 - .130	51032
		0.246	.131 - .161	51033
		0.279	.162 - .192	51034
	0.342	.193 - .255	51035	
7/8"	0.246	.131 - .161	51036	
	0.279	.162 - .193	51037	
	0.312	.194 - .224	51038	
	0.342	.225 - .255	51039	
1"	8	0.279	.162 - .193	51040
		0.312	.194 - .224	51041
		0.342	.225 - .255	51042
		0.401	.256 - .317	51043
		0.467	.318 - .380	51044
1-1/8"		0.312	.162 - .193	51045
		0.342	.194 - .224	51046
		0.374	.225 - .255	51047
		0.435	.256 - .315	51048
1-1/4"		0.312	.178 - .193	51049
	0.342	.194 - .224	51050	
	0.374	.225 - .255	51051	
	0.435	.256 - .318	51052	
	0.467	.319 - .380	51053	
1-3/8"	0.401	.194 - .255	51054	
		0.467	.256 - .317	51055
0.467		.318 - .380	51056	
1-1/2"	0.435	.194 - .255	51057	
		.256 - .317	51058	
.318 - .380		51059		
.194 - .255		51060		
1-3/4"	0.467	.256 - .317	51061	
		.318 - .380	51062	
		.381 - .505	51063	
		.194 - .255	51064	
.256 - .317		51065		
.318 - .380		51066		
2"	10	.381 - .505	51067	

STAGGER TOOTH				
Tool Diameter	Number of Teeth	Neck Diameter	Width Range	EDP Number
1/2"	6	0.13	.053 - .067	51110
		0.16	.068 - .099	51111
0.191		.100 - .130	51112	
		.084 - .099	51113	
5/8"		0.223	.100 - .130	51114
		0.252	.131 - .161	51115
		0.279	.162 - .190	51116
3/4"		0.217	.100 - .130	51117
		0.246	.131 - .161	51118
		0.279	.162 - .192	51119
	0.342	.193 - .255	51120	
7/8"	0.246	.131 - .161	51121	
	0.279	.162 - .193	51122	
	0.312	.194 - .224	51123	
	0.342	.225 - .255	51124	
1"	8	0.279	.162 - .193	51125
		0.312	.194 - .224	51126
		0.342	.225 - .255	51127
		0.401	.256 - .317	51128
		0.467	.318 - .380	51129
1-1/8"		0.312	.162 - .193	51130
		0.342	.194 - .224	51131
		0.374	.225 - .255	51132
		0.435	.256 - .315	51133
1-1/4"		0.312	.178 - .193	51134
	0.342	.194 - .224	51135	
	0.374	.225 - .255	51136	
	0.435	.256 - .318	51137	
	0.467	.319 - .380	51138	
1-3/8"	0.401	.194 - .255	51139	
		0.467	.256 - .317	51140
0.467		.318 - .380	51141	
1-1/2"	0.435	.194 - .255	51142	
		.256 - .317	51143	
.318 - .380		51144		
.194 - .255		51145		
1-3/4"	0.467	.256 - .317	51146	
		.318 - .380	51147	
		.381 - .505	51148	
		.194 - .255	51149	
.256 - .317		51150		
.318 - .380		51151		
2"	10	.381 - .505	51152	

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.
- Add Coating Type to End

Example: 1/2" Dia X 0.0550 wide = 51025.0550

Example: 51025.0550R.015

Example: 51025.0155R.015TiAlN

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

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STYLE 115 DECIMAL WIDTH

Made in USA

Style 115 Decimal Width Slotting Cutters

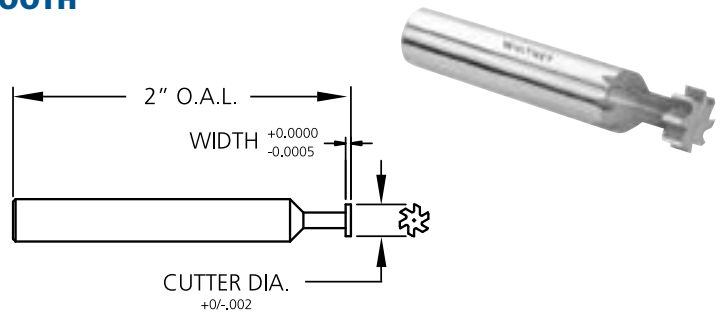
» SOLID CARBIDE - STRAIGHT & STAGGER TOOTH

- » Smaller than Standard Sizes
- » Large Selection of Sizes
- » CNC Precision
- » C2 Micrograin Standard

Diameter Tolerances:

Up to 3/8" + 0 / - .002

Standard Width Tolerance -.0005



	STRAIGHT TOOTH EDP No.	Cutter Dia.	Width Range	Shank Size	Overall Length	STAGGER TOOTH EDP No.
Uncoated	20700	1/8"	.010 - .065	1/4"	2	20720
	20701	3/16"	.010 - .065	1/4"	2	20721
	20702	1/4"	.010 - .065	1/4"	2	20722
	20703	5/16"	.010 - .100	3/8"	2	20723
	20704	3/8"	.010 - .125	3/8"	2	20724
PVD Coated	20740	1/8"	.010 - .065	1/4"	2	20760
	20741	3/16"	.010 - .065	1/4"	2	20761
	20742	1/4"	.010 - .065	1/4"	2	20762
	20743	5/16"	.010 - .100	3/8"	2	20763
	20744	3/8"	.010 - .125	3/8"	2	20764

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.
- Add Coating Type to End

Example: 1/4" Dia X 0.0155 wide = 20702.0155

Example: 20702.0155R.005

Example: 20702.0155R.005TiAlN

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

STYLE 115 DECIMAL WIDTH

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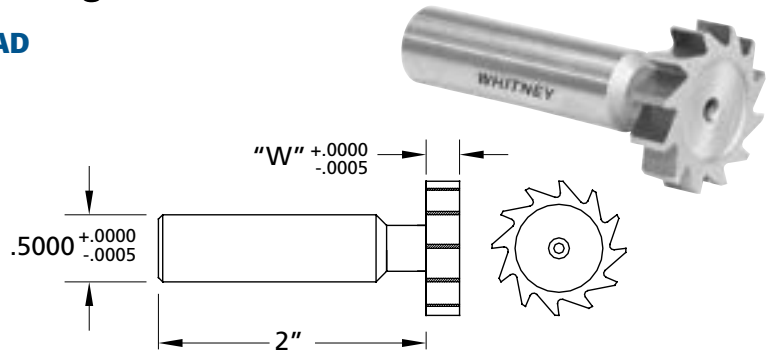
LOOKING FOR A **SPECIAL**
LENGTH, DIAMETER OR RADIUS
Fill out a quote request on page 86 or at
whitneytool.com!

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Style 115 Decimal Width Slotting Cutters

» SOLID CARBIDE / SOLID CARBIDE HEAD STRAIGHT & STAGGER TOOTH

- » Right Hand Cut
- » 1/2" Dia. Shank
- » 2" Under Head Length
- » 1/2" Thru 1" Carbide Head on Steel Shank
- » 1-1/8" Thru 2" Solid Carbide



Diameter Tolerances:

- 1/2" to 3/4" + .010 /+.015
- 7/8" to 1-1/8" + .012 /+.017
- 1-1/4" to 1-1/2" + .015 /+.020

Standard Width Tolerance -.0005

	STRAIGHT TOOTH EDP No.	Cutter Dia.	Width Range	Shank Size	Shank Length	STAGGER TOOTH EDP No.
Uncoated	20705	1/2"	.060 - .130	1/2"	2	20725
	20706	5/8"	.090 - .190	1/2"	2	20726
	20707	3/4"	.100 - .260	1/2"	2	20727
	20708	7/8"	.100 - .260	1/2"	2	20728
	20709	1"	.100 - .380	1/2"	2	20729
	20710	1-1/8"	.100 - .380	1/2"	2	20730
	20711	1-1/4"	.100 - .380	1/2"	2	20731
	20712	1-3/8"	.100 - .380	1/2"	2	20732
	20713	1-1/2"	.100 - .380	1/2"	2	20733
	20714	1-3/4"	.100 - .380	1/2"	2	20734
20715	2"	.125 - .500	1/2"	2	20735	

PVD Coated	20745	1/2"	.060 - .130	1/2"	2	20765
	20746	5/8"	.090 - .190	1/2"	2	20766
	20747	3/4"	.100 - .260	1/2"	2	20767
	20748	7/8"	.100 - .260	1/2"	2	20768
	20749	1"	.100 - .380	1/2"	2	20769
	20750	1-1/8"	.100 - .380	1/2"	2	20770
	20751	1-1/4"	.100 - .380	1/2"	2	20771
	20752	1-3/8"	.100 - .380	1/2"	2	20772
	20753	1-1/2"	.100 - .380	1/2"	2	20773
	20754	1-3/4"	.100 - .380	1/2"	2	20774
20755	2"	.125 - .500	1/2"	2	20775	

- Add width's 4 place decimal to the EDP No.
- Add "R" for Radius or "CH" for Chamfer.
- Add Coating Type to End

Example: 1/2" Dia X 0.127 wide = 20705.1270

Example: 20705.1270R.015

Example: 20705.1270R.015TiAlN

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

WHITNEYTOOL.COM

STYLE 115 DECIMAL WIDTH



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Narrow Width Slotting Cutters

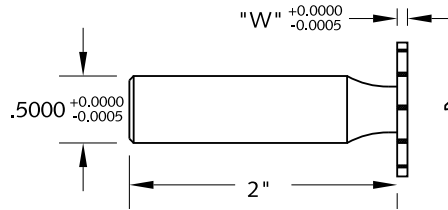
» HIGH SPEED STEEL AND M42 COBALT - STRAIGHT TOOTH

- » M4 High Speed Steel/M42 Cobalt
- » Right Hand Cut
- » 1/2" Dia. Straight Shank
- » 2" Underhead Length

Diameter Tolerances:

Up to 3/4" + .010 /+ .015
 7/8" to 1-1/8" + .012 /+ .017
 1-1/4" to 1-1/2" + .015 /+ .020

Standard Width Tolerance -.0005



H.S.S.		Diameter x Width		No. of Teeth	Neck Dia.	M42 Cobalt			
EDP No.	PVD EDP No.					EDP No.	PVD EDP No.		
10165	15165	1/4"	1/64"	8	0.105	20165	25165		
10166	15166		1/32"			20166	25166		
10167	15167		3/64"			20167	25167		
10168	15168	5/16"	1/64"			20168	25168		
10169	15169		1/32"			20169	25169		
10170	15170		3/64"			20170	25170		
10171	15171	3/8"	1/64"	20171	25171				
10172	15172		1/32"	20172	25172				
10173	15173		3/64"	20173	25173				
10174	15174	1/2"	1/64"	12	0.130	20174	25174		
10175	15175		.020			20175	25175		
10176	15176		1/32"			20176	25176		
10177	15177		3/64"			20177	25177		
10178	15178		5/8"			1/64"	0.191	20178	25178
10179	15179					.020		20179	25179
10180	15180	1/32"		20180	25180				
10181	15181	3/64"		20181	25181				
10182	15182	1/16"		20182	25182				
10183	15183	5/64"		20183	25183				
10184	15184	3/4"	1/32"	14	0.217	20184	25184		
10185	15185		3/64"			20185	25185		
10186	15186		1/16"			20186	25186		
10187	15187		5/64"			20187	25187		
10188	15188		3/32"			20188	25188		
10189	15189		7/64"			20189	25189		
10190	15190	7/8"	3/64"	16	0.246	20190	25190		
10191	15191		1/16"			20191	25191		
10192	15192		5/64"			20192	25192		
10193	15193		3/32"			20193	25193		
10194	15194		7/64"			20194	25194		
10195	15195		1/8"			20195	25195		
10196	15196	1"	9/64"	0.279	20196	25196			
10197	15197		3/64"		20197	25197			
10198	15198		1/16"		20198	25198			
10199	15199		5/64"		20199	25199			
10200	15200		3/32"		20200	25200			
10201	15201		7/64"		20201	25201			
10202	15202	1/8"	20202	25202					
10203	15203	1 1/8"	9/64"	20203	25203				
10204	15204		5/32"	20204	25204				
10205	15205		11/64"	20205	25205				

Narrow Width Slotting Cutters continue on next page...

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Narrow Width Slotting Cutters

» HIGH SPEED STEEL AND M42 COBALT - STRAIGHT TOOTH

- » M4 High Speed Steel/M42 Cobalt
- » Right Hand Cut
- » 1/2" Dia. Straight Shank
- » 2" Underhead Length

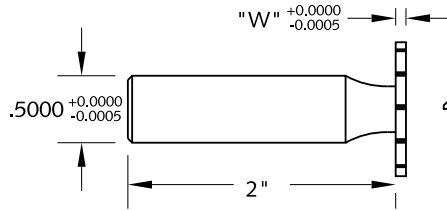
Diameter Tolerances:

Up to 3/4" + .010 /+.015

7/8" to 1-1/8" + .012 /+.017

1-1/4" to 1-1/2" + .015 /+.020

Standard Width Tolerance -.0005



Narrow Width Slotting Cutters continued...

H.S.S.		Diameter x Width	No. of Teeth	Neck Dia.	M42 Cobalt		
EDP No.	PVD EDP No.				EDP No.	PVD EDP No.	
10206	15206	1-1/8"	16	0.312	20206	25206	
10207	15207				3/64"	20207	25207
10208	15208				1/16"	20208	25208
10209	15209				5/64"	20209	25209
10210	15210				3/32"	20210	25210
10211	15211				7/64"	20211	25211
10212	15212				1/8"	20212	25212
10213	15213				9/64"	20213	25213
10214	15214				5/32"	20214	25214
10215	15215				11/64"	20215	25215
10216	15216	1-1/4"	18	0.401	20216	25216	
10217	15217				3/64"	20217	25217
10218	15218				1/16"	20218	25218
10219	15219				5/64"	20219	25219
10220	15220				3/32"	20220	25220
10221	15221				7/64"	20221	25221
10222	15222				1/8"	20222	25222
10223	15223				9/64"	20223	25223
10224	15224				5/32"	20224	25224
10225	15225				11/64"	20225	25225
10226	15226	1-3/8"	20	0.435	20226	25226	
10227	15227				3/64"	20227	25227
10228	15228				1/16"	20228	25228
10229	15229				5/64"	20229	25229
10230	15230				3/32"	20230	25230
10231	15231				7/64"	20231	25231
10232	15232				1/8"	20232	25232
10233	15233				9/64"	20233	25233
10234	15234				5/32"	20234	25234
10235	15235				11/64"	20235	25235
10236	15236	1-1/2"	20	0.435	20236	25236	
10237	15237				3/64"	20237	25237
10238	15238				1/16"	20238	25238
10239	15239				5/64"	20239	25239
10240	15240				3/32"	20240	25240
10241	15241				7/64"	20241	25241
10242	15242				1/8"	20242	25242
10243	15243				9/64"	20243	25243
10244	15244				5/32"	20244	25244
10245	15245				11/64"	20245	25245
10246	15246	3/16"	20246	25246			
10247	15247	7/32"	20247	25247			

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STYLE 110 NARROW WIDTH



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Keyseat Milling Cutters

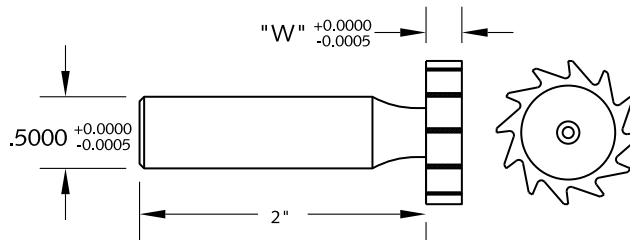
» HIGH SPEED STEEL - STRAIGHT TOOTH - PVD COATED

- » Right Hand Cut
- » 1/2" Dia. Straight Shank
- » 2" Underhead Length

Diameter Tolerances:

- Up to 3/4" + .010 /+.015
- 7/8" to 1-1/8" + .012 /+.017
- 1-1/4" to 1-1/2" + .015 /+.020

Standard Width Tolerance -.0005



H.S.S. EDP No.	American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	H.S.S. w/PVD EDP No.
10001	202	201	1/4"	1/16"	0.105	2-1/16"	8	15001
10002	202-12	206	5/16"		0.105	2-1/16"		15002
10003	302-12	207		3/32"	0.120	2-3/32"		15003
10004	203	211	3/8"	1/16"	0.105	2-1/16"		15004
10005	303	212		3/32"	0.120	2-3/32"		15005
10006	403	213	1/8"	0.150	2-1/8"	15006		
10007	204	1	1/2"	1/16"	0.130	2-1/16"	15007	
10008	304	2		3/32"	0.160	2-3/32"	15008	
10009	404	3		1/8"	0.191	2-1/8"	15009	
10010	305	4	5/8"	3/32"	0.191	2-3/32"	15010	
10011	405	5		1/8"	0.223	2-1/8"	15011	
10012	505	6		5/32"	0.252	2-5/32"	15012	
10013	605	61	3/4"	3/16"	0.279	2-3/16"	15013	
10014	406	7		1/8"	0.217	2-1/8"	15014	
10015	506	8		5/32"	0.246	2-5/32"	15015	
10016	606	9		3/16"	0.279	2-3/16"	15016	
10017	806	91	7/8"	1/4"	0.342	2-1/4"	15017	
10018	507	10		5/32"	0.246	2-5/32"	15018	
10019	607	11		3/16"	0.279	2-3/16"	15019	
10020	707	12		7/32"	0.312	2-7/32"	15020	
10021	807	A		1/4"	0.342	2-1/4"	15021	
10022	608	13		1"	3/16"	0.279	2-3/16"	15022
10023	708	14	7/32"		0.312	2-7/32"	15023	
10024	808	15	1/4"		0.342	2-1/4"	15024	
10025	1008	B	5/16"		0.401	2-5/16"	15025	
10026	1208	152	1-1/8"	3/8"	0.467	2-3/8"	15026	
10027	609	16		3/16"	0.312	2-3/16"	15027	
10028	709	17		7/32"	0.342	2-7/32"	15028	
10029	809	18		1/4"	0.374	2-1/4"	15029	
10030	1009	C		5/16"	0.435	2-5/16"	15030	
10031	610	19		1-1/4"	3/16"	0.312	2-3/16"	15031
10032	710	20	7/32"		0.342	2-7/32"	15032	
10033	810	21	1/4"		0.374	2-1/4"	15033	
10034	1010	D	5/16"		0.435	2-5/16"	15034	
10035	1210	E	1-3/8"	3/8"	0.467	2-3/8"	15035	
10036	811	22		1/4"	0.401	2-1/4"	15036	
10037	1011	23		5/16"	0.467	2-5/16"	15037	
10038	1211	F	1-1/2"	3/8"	0.467	2-3/8"	15038	
10039	812	24		1/4"	0.435	2-1/4"	15039	
10040	1012	25		5/16"	0.467	2-5/16"	15040	
10041	1212	G	3/8"	0.467	2-3/8"	15041		

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Keyseat Milling Cutters

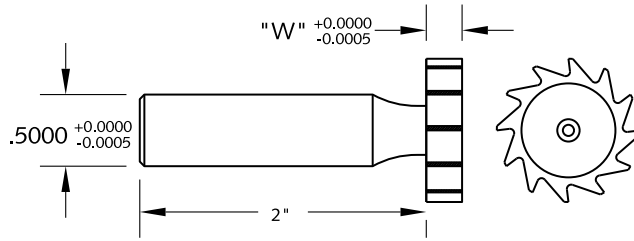
» M42 COBALT - STRAIGHT TOOTH - PVD COATED

- » Right Hand Cut
- » 1/2" Dia. Straight Shank
- » 2" Underhead Length

Diameter Tolerances:

- Up to 3/4" + .010 /+0.015
- 7/8" to 1-1/8" + .012 /+0.017
- 1-1/4" to 1-1/2" + .015 /+0.020

Standard Width Tolerance -.0005



M42 Cobalt EDP No.	American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	M42 Cobalt w/PVD EDP No.
20001	202	201	1/4"	1/16"	0.105	2-1/16"	8	25001
20002	202-12	206	5/16"	1/16"	0.105	2-1/16"		25002
20003	302-12	207		3/32"	0.120	2-3/32"		25003
20004	203	211	3/8"	1/16"	0.105	2-1/16"		25004
20005	303	212	3/8"	3/32"	0.120	2-3/32"	25005	
20006	403	213		1/8"	0.150	2-1/8"	25006	
20007	204	1	1/2"	1/16"	0.130	2-1/16"	25007	
20008	304	2		3/32"	0.160	2-3/32"	25008	
20009	404	3		1/8"	0.191	2-1/8"	25009	
20010	305	4	3/32"	2-3/32"		25010		
20011	405	5	5/8"	1/8"	0.223	2-1/8"	25011	
20012	505	6		5/32"	0.252	2-5/32"	25012	
20013	605	61	3/4"	3/16"	0.279	2-3/16"	25013	
20014	406	7		1/8"	0.217	2-1/8"	25014	
20015	506	8		5/32"	0.246	2-5/32"	25015	
20016	606	9	7/8"	3/16"	0.279	2-3/16"	25016	
20017	806	91		1/4"	0.342	2-1/4"	25017	
20018	507	10	7/8"	5/32"	0.246	2-5/32"	25018	
20019	607	11		3/16"	0.279	2-3/16"	25019	
20020	707	12		7/32"	0.312	2-7/32"	25020	
20021	807	A	1"	1/4"	0.342	2-1/4"	25021	
20022	608	13		3/16"	0.279	2-3/16"	25022	
20023	708	14		7/32"	0.312	2-7/32"	25023	
20024	808	15		1/4"	0.342	2-1/4"	25024	
20025	1008	B	1-1/8"	5/16"	0.401	2-5/16"	25025	
20026	1208	152		3/8"	0.467	2-3/8"	25026	
20027	609	16	1-1/8"	3/16"	0.312	2-3/16"	25027	
20028	709	17		7/32"	0.342	2-7/32"	25028	
20029	809	18		1/4"	0.374	2-1/4"	25029	
20030	1009	C	1-1/4"	5/16"	0.435	2-5/16"	25030	
20031	610	19		3/16"	0.312	2-3/16"	25031	
20032	710	20		7/32"	0.342	2-7/32"	25032	
20033	810	21		1/4"	0.374	2-1/4"	25033	
20034	1010	D	1-3/8"	5/16"	0.435	2-5/16"	25034	
20035	1210	E		3/8"	0.467	2-3/8"	25035	
20036	811	22	1-3/8"	1/4"	0.401	2-1/4"	25036	
20037	1011	23		5/16"	0.467	2-5/16"	25037	
20038	1211	F	3/8"	2-3/8"		25038		
20039	812	24	1-1/2"	1/4"	0.435	2-1/4"	25039	
20040	1012	25		5/16"	0.467	2-5/16"	25040	
20041	1212	G	3/8"	2-3/8"		25041		

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Keyseat Milling Cutters

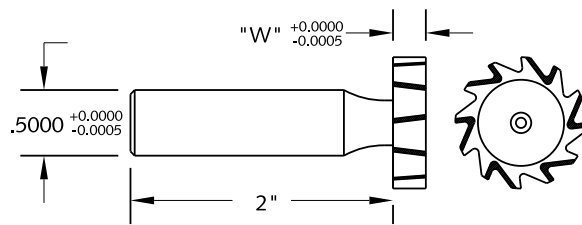
» HIGH SPEED STEEL - STAGGER TOOTH - PVD COATED

- » Right Hand Cut
- » Alternate Right and Left Hand Axial Rake
- » 1/2" Dia. Straight Shank
- » 2" Underhead Length

Diameter Tolerances:

- Up to 3/4" + .010 /+.015
- 7/8" to 1-1/8" + .012 /+.017
- 1-1/4" to 1-1/2" + .015 /+.020

Standard Width Tolerance -.0005



H.S.S. EDP No.	American Standard No.	Old Standard No.	Dia.	Width	Neck Dia.	Overall Length	No. of Teeth	H.S.S. w/PVD EDP No.
10042	202	201	1/4"	1/16"	0.105	2-1/16"	6	15042
10043	202-12	206	5/16"	1/16"	0.105	2-1/16"		15043
10044	302-12	207		3/32"	0.120	2-3/32"		15044
10045	203	211	3/8"	1/16"	0.105	2-1/16"		15045
10046	303	212		3/32"	0.120	2-3/32"		15046
10047	403	213	1/8"	0.150	2-1/8"	15047		
10048	204	1	1/2"	1/16"	0.130	2-1/16"	15048	
10049	304	2		3/32"	0.160	2-3/32"	15049	
10050	404	3		1/8"	0.191	2-1/8"	15050	
10051	305	4		3/32"	0.191	2-3/32"	15051	
10052	405	5	5/8"	1/8"	0.223	2-1/8"	15052	
10053	505	6		5/32"	0.252	2-5/32"	15053	
10054	605	61	3/4"	3/16"	0.279	2-3/16"	15054	
10055	406	7		1/8"	0.217	2-1/8"	15055	
10056	506	8		5/32"	0.246	2-5/32"	15056	
10057	606	9		3/16"	0.279	2-3/16"	15057	
10058	806	91	7/8"	1/4"	0.342	2-1/4"	15058	
10059	507	10		5/32"	0.246	2-5/32"	15059	
10060	607	11		3/16"	0.279	2-3/16"	15060	
10061	707	12		7/32"	0.312	2-7/32"	15061	
10062	807	A	1"	1/4"	0.342	2-1/4"	15062	
10063	608	13		3/16"	0.279	2-3/16"	15063	
10064	708	14		7/32"	0.312	2-7/32"	15064	
10065	808	15		1/4"	0.342	2-1/4"	15065	
10066	1008	B	1-1/8"	5/16"	0.401	2-5/16"	15066	
10067	1208	152		3/8"	0.467	2-3/8"	15067	
10068	609	16		3/16"	0.312	2-3/16"	15068	
10069	709	17		7/32"	0.342	2-7/32"	15069	
10070	809	18	1-1/4"	1/4"	0.374	2-1/4"	15070	
10071	1009	C		5/16"	0.435	2-5/16"	15071	
10072	610	19	1-1/2"	3/16"	0.312	2-3/16"	15072	
10073	710	20		7/32"	0.342	2-7/32"	15073	
10074	810	21		1/4"	0.374	2-1/4"	15074	
10075	1010	D		5/16"	0.435	2-5/16"	15075	
10076	1210	E	1-3/8"	3/8"	0.467	2-3/8"	15076	
10077	811	22		1/4"	0.401	2-1/4"	15077	
10078	1011	23		5/16"	0.467	2-5/16"	15078	
10079	1211	F		3/8"	0.467	2-3/8"	15079	
10080	812	24	1-1/2"	1/4"	0.435	2-1/4"	15080	
10081	1012	25		5/16"	0.467	2-5/16"	15081	
10082	1212	G		3/8"	0.467	2-3/8"	15082	

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

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Keyseat Milling Cutters

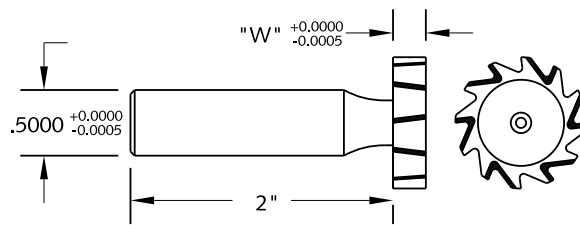
» M42 COBALT - STAGGER TOOTH - PVD COATED

- » Right Hand Cut
- » Alternate Right and Left Hand Axial Rake
- » 1/2" Dia. Straight Shank
- » 2" Underhead Length

Diameter Tolerances:

Up to 3/4" + .010 /+ .015
 7/8" to 1-1/8" + .012 /+ .017
 1-1/4" to 1-1/2" + .015 /+ .020

Standard Width Tolerance -.0005



M42 Cobalt EDP No.	American Standard No.	Old Standard No.	Dia.	Width	Neck Dia.	Overall Length	No. of Teeth	M42 Cobalt w/PVD EDP No.
10807	202	201	1/4"	1/16"	0.105	2-1/16"	6	10848
10808	202-1/2	206	5/16"	1/16"	0.105	2-1/16"		10849
10809	302-1/2	207		3/32"	0.120	2-3/32"		10850
10810	203	211	3/8"	1/16"	0.105	2-1/16"	10851	
10811	303	212		3/32"	0.120	2-3/32"	10852	
10812	403	213	1/2"	1/8"	0.150	2-1/8"	10853	
10813	204	1		1/16"	0.130	2-1/16"	10854	
10814	304	2	5/8"	3/32"	0.160	2-3/32"	10855	
10815	404	3		1/8"	0.191	2-1/8"	10856	
10816	305	4	3/4"	3/32"	0.191	2-3/32"	10857	
10817	405	5		1/8"	0.223	2-1/8"	10858	
10818	505	6	7/8"	5/32"	0.252	2-5/32"	10859	
10819	605	61		3/16"	0.279	2-3/16"	10860	
10820	406	7	1"	1/8"	0.217	2-1/8"	10861	
10821	506	8		5/32"	0.246	2-5/32"	10862	
10822	606	9	1-1/8"	3/16"	0.279	2-3/16"	10863	
10823	806	91		1/4"	0.342	2-1/4"	10864	
10824	507	10	1-1/4"	5/32"	0.246	2-5/32"	10865	
10825	607	11		3/16"	0.279	2-3/16"	10866	
10826	707	12	1-1/2"	7/32"	0.312	2-7/32"	10867	
10827	807	A		1/4"	0.342	2-1/4"	10868	
10828	608	13	1-3/8"	3/16"	0.279	2-3/16"	10869	
10829	708	14		7/32"	0.312	2-7/32"	10870	
10830	808	15	1-1/2"	1/4"	0.342	2-1/4"	10871	
10831	1008	B		5/16"	0.401	2-5/16"	10872	
10832	1208	152	1-3/4"	3/8"	0.467	2-3/8"	10873	
10833	609	16		3/16"	0.312	2-3/16"	10874	
10834	709	17	1-7/8"	7/32"	0.342	2-7/32"	10875	
10835	809	18		1/4"	0.374	2-1/4"	10876	
10836	1009	C	1-3/4"	5/16"	0.435	2-5/16"	10877	
10837	610	19		3/16"	0.312	2-3/16"	10878	
10838	710	20	1-1/2"	7/32"	0.342	2-7/32"	10879	
10839	810	21		1/4"	0.374	2-1/4"	10880	
10840	1010	D	1-1/2"	5/16"	0.435	2-5/16"	10881	
10841	1210	E		3/8"	0.467	2-3/8"	10882	
10842	811	22	1-1/2"	1/4"	0.401	2-1/4"	10883	
10843	1011	23		5/16"	0.467	2-5/16"	10884	
10844	1211	F	1-1/2"	3/8"	0.467	2-3/8"	10885	
10845	812	24		1/4"	0.435	2-1/4"	10886	
10846	1012	25	1-1/2"	5/16"	0.467	2-5/16"	10887	
10847	1212	G		3/8"	0.467	2-3/8"	10888	

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Keyseat Milling Cutters

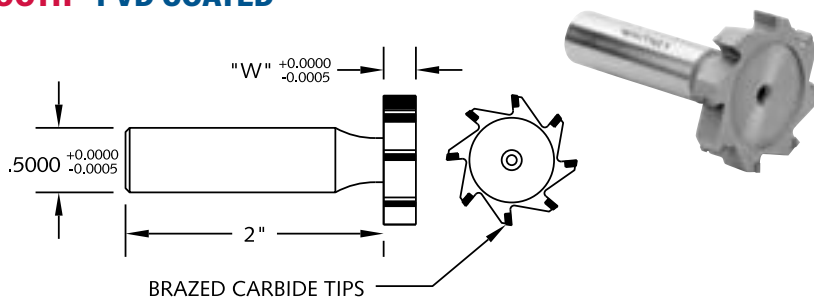
» CARBIDE TIPPED - STRAIGHT TOOTH - PVD COATED

- » Micrograin Carbide or PVD Coated
- » Right Hand Cut
- » 1/2" Dia. x 2" Long Straight Shank

Diameter Tolerances:

Up to 3/4" + .010 /+ .015
 7/8" to 1-1/8" + .012 /+ .017
 1-1/4" to 1-1/2" + .015 /+ .020

Standard Width Tolerance -.0005



Carbide Tipped EDP No.	American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	Carbide Tipped w/PVD EDP No.
30001	204	1	1/2"	1/16"	0.130	2-1/16"	6	35001
30002	304	2		3/32"	0.160	2-3/32"		35002
30003	404	3		1/8"	0.191	2-1/8"		35003
30004	305	4	5/8"	3/32"	0.191	2-3/32"		35004
30005	405	5		1/8"	0.223	2-1/8"		35005
30006	505	6		5/32"	0.252	2-5/32"		35006
30007	605	61	3/4"	3/16"	0.279	2-3/16"		35007
30008	406	7		1/8"	0.217	2-1/8"		35008
30009	506	8		5/32"	0.246	2-5/32"		35009
30010	606	9	7/8"	3/16"	0.279	2-3/16"		35010
30011	806	91		1/4"	0.342	2-1/4"		35011
30012	507	10		5/32"	0.246	2-5/32"		35012
30013	607	11	1"	3/16"	0.279	2-3/16"	35013	
30014	707	12		7/32"	0.312	2-7/32"	35014	
30015	807	A		1/4"	0.342	2-1/4"	35015	
30016	608	13	1-1/8"	3/16"	0.279	2-3/16"	35016	
30017	708	14		7/32"	0.312	2-7/32"	35017	
30018	808	15		1/4"	0.342	2-1/4"	35018	
30019	1008	B	1-1/4"	5/16"	0.401	2-5/16"	35019	
30020	1208	152		3/8"	0.467	2-3/8"	35020	
30021	609	16		3/16"	0.312	2-3/16"	35021	
30022	709	17	1-1/2"	7/32"	0.342	2-7/32"	35022	
30023	809	18		1/4"	0.374	2-1/4"	35023	
30024	1009	C		5/16"	0.435	2-5/16"	35024	
30025	610	19	1-3/8"	3/16"	0.312	2-3/16"	35025	
30026	710	20		7/32"	0.342	2-7/32"	35026	
30027	810	21		1/4"	0.374	2-1/4"	35027	
30028	1010	D	1-1/2"	5/16"	0.435	2-5/16"	35028	
30029	1210	E		3/8"	0.467	2-3/8"	35029	
30030	811	22		1/4"	0.401	2-1/4"	35030	
30031	1011	23	1-1/2"	5/16"	0.467	2-5/16"	35031	
30032	1211	F		3/8"	0.467	2-3/8"	35032	
30033	812	24		1/4"	0.435	2-1/4"	35033	
30034	1012	25	1-1/2"	5/16"	0.467	2-5/16"	35034	
30035	1212	G		3/8"	0.467	2-3/8"	35035	

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Carbide tipped woodruff cutters reduce the overall machining costs whenever production conditions are such that the higher initial costs are justified. These cutters can cut 3 to 4 times faster than high speed steel cutters. Rigidity and proper feeds and speeds are essential to successful use of carbide tipped cutters. Carbide tipped cutters are used to machine materials that are difficult or impossible to cut with high speed steel cutters. These cutters are made with a general purpose grade of micrograin carbide which has proven most satisfactory. **All straight tooth cutters 5/32" wide and wider are provided with chip breakers** for longer tool life and better cutting action.



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

STYLE 120 KEYSEAT

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Keyseat Milling Cutters

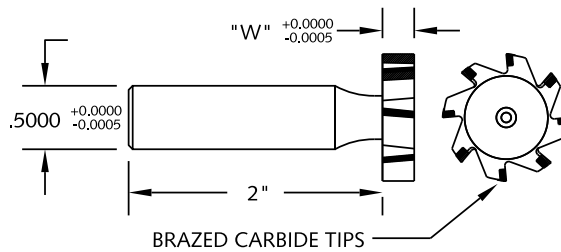
» CARBIDE TIPPED - STAGGER TOOTH - PVD COATED

- » Micrograin Carbide
- » Right Hand Cut
- » 1/2" Dia. x 2" Long Straight Shank
- » Alternate Right and Left Hand Axial Rake

Diameter Tolerances:

- Up to 3/4" + .010 /+.015
- 7/8" to 1-1/8" + .012 /+.017
- 1-1/4" to 1-1/2" + .015 /+.020

Standard Width Tolerance -.0005



Carbide Tipped EDP No.	American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	Carbide Tipped w/PVD EDP No.
30036	204	1	1/2"	1/16"	0.130	2-1/16"	6	35036
30037	304	2		3/32"	0.160	2-3/32"		35037
30038	404	3	1/8"	0.191	2-1/8"	35038		
30039	305	4	5/8"	3/32"	0.191	2-3/32"		35039
30040	405	5		1/8"	0.223	2-1/8"		35040
30041	505	6	3/4"	5/32"	0.252	2-5/32"		35041
30042	605	61		3/16"	0.279	2-3/16"		35042
30043	406	7	7/8"	1/8"	0.217	2-1/8"		35043
30044	506	8		5/32"	0.246	2-5/32"		35044
30045	606	9		3/16"	0.279	2-3/16"		35045
30046	806	91	1"	1/4"	0.342	2-1/4"		35046
30047	507	10		5/32"	0.246	2-5/32"		35047
30048	607	11	1-1/8"	3/16"	0.279	2-3/16"	35048	
30049	707	12		7/32"	0.312	2-7/32"	35049	
30050	807	A	1-1/4"	1/4"	0.342	2-1/4"	35050	
30051	608	13		3/16"	0.279	2-3/16"	35051	
30052	708	14		7/32"	0.312	2-7/32"	35052	
30053	808	15	1-1/2"	1/4"	0.342	2-1/4"	35053	
30054	1008	B		5/16"	0.401	2-5/16"	35054	
30055	1208	152	1-3/8"	3/8"	0.467	2-3/8"	35055	
30056	609	16		3/16"	0.312	2-3/16"	35056	
30057	709	17	1-1/2"	7/32"	0.342	2-7/32"	35057	
30058	809	18		1/4"	0.374	2-1/4"	35058	
30059	1009	C	1-3/4"	5/16"	0.435	2-5/16"	35059	
30060	610	19		3/16"	0.312	2-3/16"	35060	
30061	710	20	1-1/2"	7/32"	0.342	2-7/32"	35061	
30062	810	21		1/4"	0.374	2-1/4"	35062	
30063	1010	D	1-1/2"	5/16"	0.435	2-5/16"	35063	
30064	1210	E		3/8"	0.467	2-3/8"	35064	
30065	811	22	1-1/2"	1/4"	0.401	2-1/4"	35065	
30066	1011	23		5/16"	0.467	2-5/16"	35066	
30067	1211	F	1-1/2"	3/8"	0.467	2-3/8"	35067	
30068	812	24		1/4"	0.435	2-1/4"	35068	
30069	1012	25	1-1/2"	5/16"	0.467	2-5/16"	35069	
30070	1212	G		3/8"	0.467	2-3/8"	35070	

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Carbide tipped woodruff cutters reduce the overall machining costs whenever production conditions are such that the higher initial costs are justified. These cutters can cut 3 to 4 times faster than high speed steel cutters. Rigidity and proper feeds and speeds are essential to successful use of carbide tipped cutters. Carbide tipped cutters are used to machine materials that are difficult or impossible to cut with high speed steel cutters. These cutters are made with a general purpose grade of micrograin carbide which has proven most satisfactory.



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Solid Carbide Tooling



Contact your Distributor to order.

When solid carbide fits your application, Whitney Tool Company can provide tools manufactured to the same exacting standards that make our HSS and carbide tipped tools the industry standard.

In certain applications, solid carbide provides distinct advantages over HSS and carbide tipped tools.

For example, solid carbide offers exceptional rigidity and tool life, often resulting in higher production rates and/or superior performance when cutting difficult materials. And, in smaller sizes (less than 3/4" dia.), solid carbide is often more economical than carbide tipped.

Carbide cutting edges provide many advantages. Let Whitney help you determine whether carbide tipped or solid carbide is your best alternative, based on your specific application. We also offer a variety of popular coatings, such as Titanium Nitride (TiN), Titanium Aluminum Nitride (TiAlN) and Titanium Carbon Nitride (TiCN), which are available for the appropriate applications. We can offer advice for your consideration regarding their use as well.

Small Keyseat Cutters

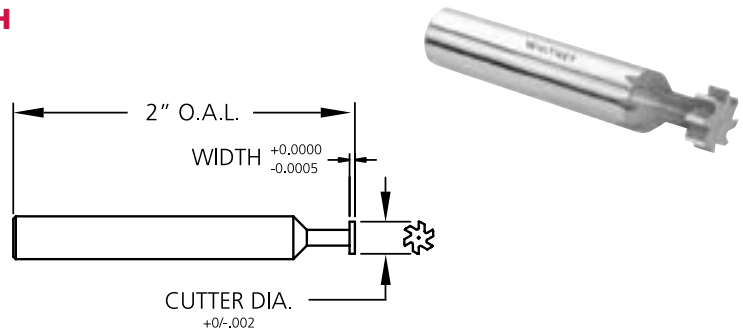
» SOLID CARBIDE - STRAIGHT TOOTH

- » Smaller than Standard Sizes
- » Large Selection of Sizes
- » CNC Precision Ground
- » C2 Micrograin Standard

Diameter Tolerances:

Up to 3/8" + 0 /-.002

Standard Width Tolerance -.0005



Solid Carbide EDP No.	Cutter Dia.	Width	Shank	Neck Dia.	Neck Length	No. of Teeth	Solid Carbide w/PVD EDP No.
30300	18"	1/64"	14"	1/16"	5/32"	4	35300
30301		1/32"					35301
30302		1mm					35302
30303		3/64"					35303
30304		1/16"					35304
30305	1/64"	35305					
30306	1/32"	35306					
30307	1mm	35307					
30308	3/64"	35308					
30309	1/16"	35309					
30310	1/64"	1/8"	3/32"	1/4"	6	35310	
30311	1/32"					35311	
30312	1mm					35312	
30313	3/64"					35313	
30314	1/16"					35314	
30315	1/64"	38"	5/32"	1/4"	8	35315	
30316	1/32"					35316	
30317	1mm					35317	
30318	3/64"					35318	
30319	1/16"					35319	
30320	2mm	3/16"	3/32"	3/8"	8	35320	
30321	3/32"					35321	
30322	1/64"					35322	
30323	1/32"					35323	
30324	1mm					35324	
30325	3/64"	3/8"	1/8"	3/8"	8	35325	
30326	1/16"					35326	
30327	2mm					35327	
30328	3/32"					35328	
30329	1/8"					35329	

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

WHITNEYTOOL.COM

SMALL SOLID CARBIDE

Made in USA

LOOKING FOR A **SPECIAL**
LENGTH, DIAMETER OR RADIUS
Fill out a quote request on page 86 or at
whitneytool.com!

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Keyseat Cutters

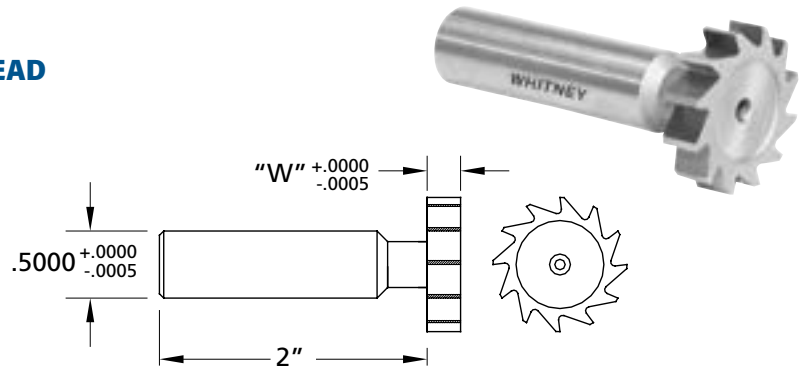
» SOLID CARBIDE / SOLID CARBIDE HEAD STRAIGHT TOOTH - PVD COATED

- » Right Hand Cut
- » 1/2" Dia. Shank
- » 2" Under Head Length
- » 1/2" Thru 1" Carbide Head on Steel Shank
- » 1-1/8" Thru 1-1/2" Solid Carbide

Diameter Tolerances:

- Up to 3/4" + .010 /+0.015
- 7/8" to 1-1/8" + .012 /+0.017
- 1-1/4" to 1-1/2" + .015 /+0.020

Standard Width Tolerance -.0005



	EDP No.	American Standard No.	Old Standard No.	Diameter	Width	Neck Diameter	No. of Teeth	PVD EDP No.	
Solid Carbide Head	30330	204	1	1/2"	1/16"	0.218*	10	35330	
	30331	304	2		3/32"	0.218*		35331	
	30332	404	3		1/8"	0.218*		35332	
	30333	305	4	5/8"	3/32"	0.250		35333	
	30334	405	5		1/8"	0.250		35334	
	30335	505	6		5/32"	0.281		35335	
	30336	605	61	3/4"	3/16"	0.281		35336	
	30337	406	7		1/8"	0.250		35337	
	30338	506	8		5/32"	0.250		35338	
	30339	606	9	7/8"	3/16"	0.281		35339	
	30340	806	91		1/4"	0.281		35340	
	30341	507	10		5/32"	0.281		35341	
	30342	607	11	1"	3/16"	0.281		35342	
	30343	707	12		7/32"	0.312		35343	
	30344	807	A		1/4"	0.312		35344	
	30345	608	13	1-1/8"	3/16"	0.312		14	35345
	30346	708	14		7/32"	0.312			35346
	30347	808	15		1/4"	0.312			35347
30348	1008	B	1-1/4"	5/16"	0.343	35348			
30349	1208	152		3/8"	0.343	35349			
Solid Carbide	30350	609	16	1-1/8"	3/16"	0.343	14		35350
	30351	709	17		7/32"	0.343			35351
	30352	809	18		1/4"	0.375			35352
	30353	1009	C	1-1/4"	5/16"	0.375			35353
	30354	610	19		3/16"	0.343			35354
	30355	710	20		7/32"	0.343			35355
	30356	810	21	1-3/8"	1/4"	0.375			35356
	30357	1010	D		5/16"	0.437			35357
	30358	1210	E		3/8"	0.468			35358
	30359	811	22	1-1/2"	1/4"	0.401			35359
	30360	1011	23		5/16"	0.468			35360
	30361	1211	F		3/8"	0.468			35361
	30362	812	24	1-1/2"	1/4"	0.435		35362	
	30363	1012	25		5/16"	0.468		35363	
	30364	1212	G		3/8"	0.468		35364	

*Neck does not conform to American Standard Dimension for Woodruff Keyseat Milling Cutters.

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN.
Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



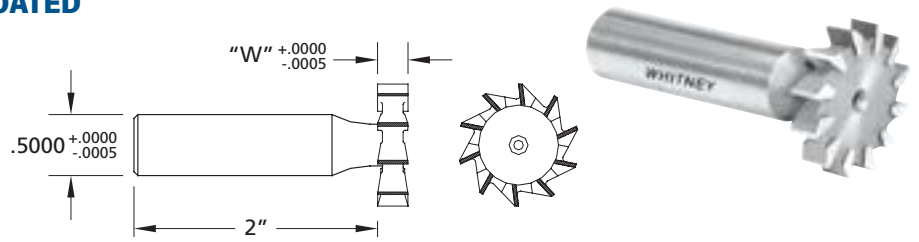
Deep Slotting Cutters with Side Cutting Teeth

» HIGH SPEED STEEL - PVD COATED

- » Hold Slot Width to Closer Tolerances
- » Improved Finish On Sides

Diameter Tolerances:
1" to 2" + .015 / +.020

Standard Width Tolerance -.0005



5° Radial Rake for Cutting Ferrous Material			Cutter Diameter	Cutter Width	Neck Diameter	Neck Form	10° Radial Rake for Cutting Non-Ferrous Material		
No. of Teeth	Uncoated EDP No.	PVD EDP No.					No. of Teeth	Uncoated EDP No.	PVD EDP No.
12	10650	15650	1"	3/16"	7/32"	12" R.	6	10666	15666
	10651	15651		1/4"	1/32"	2 1/32" R.		10667	15667
10	10652	15652		5/16"	13/32"	Straight w/45°		10668	15668
	10653	15653		3/8"	15/32"			10669	15669
14	10654	15654	1-1/4"	3/16"	5/16"	5/8" RAD.	8	10670	15670
	10655	15655		1/4"	3/8"	3/4" RAD.		10671	15671
12	10656	15656	5/16"	7/16"	Straight w/45°	10672		15672	
	10657	15657	3/8"	15/32"		10673		15673	
14	10658	15658	1-1/2"	3/16"		7/16"	10674	15674	
	10659	15659		1/4"		15/32"	10675	15675	
12	10660	15660	5/16"	2"	10676		15676		
	10661	15661	3/8"		10677		15677		
16	10662	15662	3/16"		15/32"		10678	15678	
	10663	15663	1/4"			10679	15679		
	10664	15664	5/16"	10680		15680			
	10665	15665	3/8"	10681		15681			

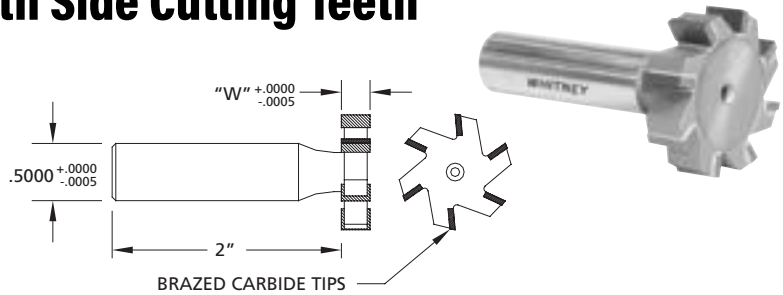
Deep Slotting Cutters with Side Cutting Teeth

» CARBIDE TIPPED - PVD COATED

- » Increased Cutting Speed
- » Longer Tool Life

Diameter Tolerances:
1" to 2" + .015 / +.020

Standard Width Tolerance -.0005



5° Radial Rake for Cutting Ferrous Material			Cutter Diameter	Cutter Width	Neck Diameter	Neck Form	10° Radial Rake for Cutting Non-Ferrous Material		
No. of Teeth	Carbide Tipped EDP No.	PVD EDP No.					No. of Teeth	Carbide Tipped EDP No.	PVD EDP No.
6	30450	35450	1"	3/16"	7/32"	12" R.	4	30466	35466
	30451	35451		1/4"	1/32"	2 1/32" R.		30467	35467
	30452	35452		5/16"	13/32"	Straight w/45°		30468	35468
	30453	35453		3/8"	15/32"			30469	35469
8	30454	35454	1-1/4"	3/16"	5/16"	5/8" RAD.	6	30470	35470
	30455	35455		1/4"	3/8"	3/4" RAD.		30471	35471
	30456	35456		5/16"	7/16"	Straight w/45°		30472	35472
	30457	35457		3/8"	15/32"			30473	35473
10	30458	35458	1-1/2"	3/16"	7/16"		15/32"	30474	35474
	30459	35459		1/4"	2"			30475	35475
	30460	35460		5/16"		30476		35476	
	30461	35461		3/8"		30477		35477	
12	30462	35462	2"	3/16"		15/32"	Straight w/45°	8	30478
	30463	35463		1/4"	30479				35479
	30464	35464		5/16"	30480				35480
	30465	35465		3/8"	30481				35481

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

WHITNEY TOOL COMPANY



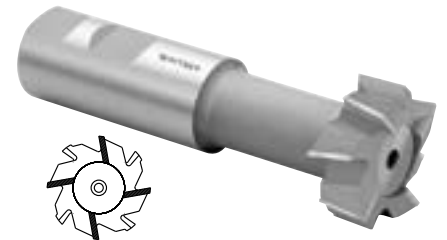
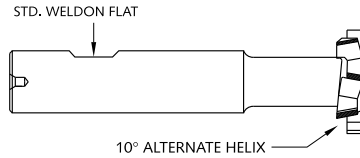
T-Slot Milling Cutters

» HIGH SPEED STEEL - M42 COBALT - PVD COATED

- » Right Hand Cut
- » Weldon Shank

Tolerances:

Dia. +0.0/-0.010 Width +0.0/-0.005



H.S.S. EDP No.	Bolt Size	Cutter Dia.	Cutter Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	No. of Teeth	H.S.S. w/PVD EDP No.
10276	1/4"	9/16"	15/64"	17/64"	35/64"	2-19/32"	1/2"	8	16276
10277	5/16"	21/32"	17/64"	21/64"	39/64"	2-11/16"	3/4"		16277
10278	3/8"	25/32"	21/64"	13/32"	55/64"	3-1/4"			16278
10279	1/2"	31/32"	25/64"	17/32"	63/64"	3-7/16"	16279		
10280	5/8"	1-1/4"	31/64"	21/32"	1-9/64"	3-15/16"	1"	12	16280
10281	3/4"	1-15/32"	5/8"	25/32"	1-1/2"	4-7/16"	1-1/4"		16281
10282	1"	1-27/32"	53/64"	1-1/32"	1-43/64"	4-13/16"			16282
10283	1-1/4"	2-7/32"	1-3/32"	1-7/32"	1-31/32"	5-3/8"	16283		
10284	1-1/2"	2-21/32"	1-11/32"	1-17/32"	2-1/8"	5-29/32"		16284	

M42 Cobalt EDP No.	Bolt Size	Cutter Dia.	Cutter Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	No. of Teeth	M42 Cobalt w/PVD EDP No.
15276	1/4"	9/16"	15/64"	17/64"	35/64"	2-19/32"	1/2"	8	25276
15277	5/16"	21/32"	17/64"	21/64"	39/64"	2-11/16"	3/4"		25277
15278	3/8"	25/32"	21/64"	13/32"	55/64"	3-1/4"			25278
15279	1/2"	31/32"	25/64"	17/32"	63/64"	3-7/16"	25279		
15280	5/8"	1-1/4"	31/64"	21/32"	1-9/64"	3-15/16"	1"	12	25280
15281	3/4"	1-15/32"	5/8"	25/32"	1-1/2"	4-7/16"	1-1/4"		25281
15282	1"	1-27/32"	53/64"	1-1/32"	1-43/64"	4-13/16"			25282
15283	1-1/4"	2-7/32"	1-3/32"	1-7/32"	1-31/32"	5-3/8"	25283		
15284	1-1/2"	2-21/32"	1-11/32"	1-17/32"	2-1/8"	5-29/32"		25284	

High speed steel and M42 cobalt T-slot cutters are a rugged design with free cutting features. The cutters have positive radial rake, right and left hand spiral, with alternate side cutting teeth for maximum chip clearance.

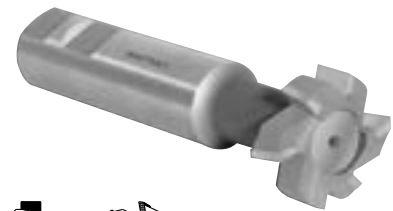
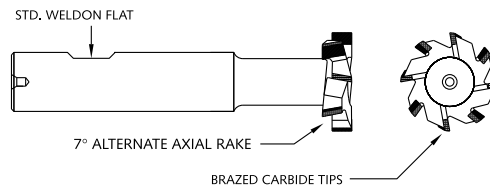
T-Slot Milling Cutters

» CARBIDE TIPPED - PVD COATED

- » Micrograin Carbide
- » Right Hand Cut
- » Weldon Shank

Tolerances:

Dia. + 0/-0.010 Width + 0/-0.005



Carbide Tipped EDP No.	Bolt Size	Cutter Dia.	Cutter Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	No. of Teeth	Carbide Tipped w/PVD EDP No.
30087	1/4"	9/16"	15/64"	17/64"	35/64"	2-19/32"	1/2"	6	35087
30088	5/16"	21/32"	17/64"	21/64"	39/64"	2-11/16"	3/4"		35088
30089	3/8"	25/32"	21/64"	13/32"	55/64"	3-1/4"			35089
30090	1/2"	31/32"	25/64"	17/32"	63/64"	3-7/16"	35090		
30091	5/8"	1-1/4"	31/64"	21/32"	1-9/64"	3-15/16"	1"	8	35091
30092	3/4"	1-15/32"	5/8"	25/32"	1-1/2"	4-7/16"	1-1/4"		35092
30093	1"	1-27/32"	53/64"	1-1/32"	1-43/64"	4-13/16"			35093
30094	1-1/4"	2-7/32"	1-3/32"	1-7/32"	1-31/32"	5-3/8"	35094		
30095	1-1/2"	2-21/32"	1-11/32"	1-17/32"	2-1/8"	5-29/32"		35095	

Carbide tipped T-slot cutters are a rugged design with free cutting features. The cutters have positive radial rake, right and left hand axial rake, with alternate side cutting teeth for maximum chip clearance. Allow 5 to 7 days delivery for PVD.

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



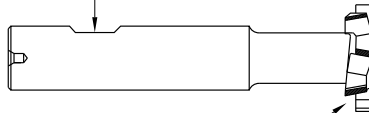
Long Shank T-Slot Milling Cutters

Long Shank T-Slot Milling Cutters

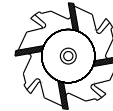
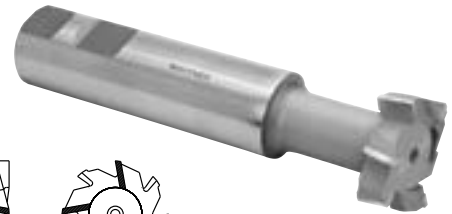
» **HIGH SPEED STEEL - PVD COATED**

- » Right Hand Cut
- » Weldon Shank

STD. WELDON FLAT



10° ALTERNATE HELIX



Tolerances:

Width: + .004 to 0

Dia. 1"-.002 to -.007 " 1-1/4"-.003 to -.007 " 1-1/2"-.003 to -.009 " 2"-.004 to -.010

H.S.S. EDP No.	Head Dia "O.D."	Head Width	Shank Dia.	Neck Dia. x L	Overall Length	No. of Teeth	H.S.S. w/PVD EDP No.
10294	1"	1/8"	5/8"	.437 x 1"	4-15/16"	8	15294
10295		3/16"					15295
10296		1/4"					15296
10297		5/16"					15297
10298		3/8"					15298
10299		1/2"					15299
10300	1-1/4"	5/8"	3/4"	.593 x 1-1/8"	5-1/8"	15300	
10301		1/8"				15301	
10302		3/16"				15302	
10303		1/4"				15303	
10304		5/16"				15304	
10305		3/8"				15305	
10306	1/2"	15306					
10307	5/8"	15307					
10308	1-1/2"	1/8"	1"	.718 x 1-11/32"	5-5/16"	15308	
10309		3/16"				15309	
10310		1/4"				15310	
10311		5/16"				15311	
10312		3/8"				15312	
10313		1/2"				15313	
10314	5/8"	15314					
10315	2"	3/16"	1"	.796 x 1-9/16"	5-11/16"	15315	
10316		1/4"				15316	
10317		5/16"				15317	
10318		3/8"				15318	
10319		1/2"				15319	
10320		5/8"				15320	
10321	3/4"	15321					



Ordering Information:
Please be sure to specify the quantity,
EDP number, diameter, width, and material.

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Long Shank T-Slot Milling Cutters

» M42 COBALT - CARBIDE TIPPED - PVD COATED

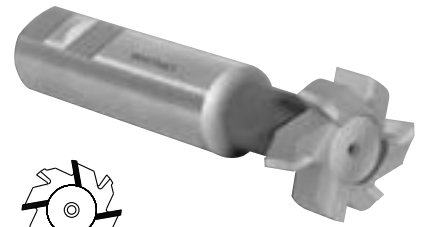
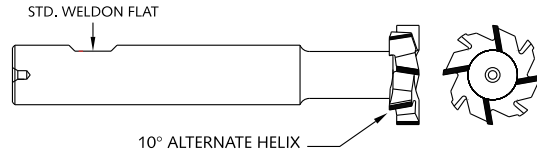
- » Right Hand Cut
- » Weldon Shank

Tolerances:

Width: + .004 to 0

Dia. 1"-.002 to -.007 " 1-1/4"-.003 to -.007 "

1-1/2"-.003 to -.009 " 2"-.004 to -.010



M42 Cobalt EDP No.	Head Dia "O.D."	Head Width	Shank Dia.	Neck Dia. x L	Overall Length	No. of Teeth	M42 Cobalt w/PVD EDP No.
20294	1"	1/8"	5/8"	.437 x 1"	4-15/16"		25294
20295		3/16"					25295
20296		1/4"					25296
20297		5/16"					25297
20298		3/8"					25298
20299		1/2"					25299
20300		5/8"					25300
20301	1-1/4"	1/8"	3/4"	.593 x 1-1/8"	5-1/8"	8	25301
20302		3/16"					25302
20303		1/4"					25303
20304		5/16"					25304
20305		3/8"					25305
20306		1/2"					25306
20307		5/8"					25307
20308	1-1/2"	1/8"	1"	.718 x 1-11/32"	5-5/16"		25308
20309		3/16"					25309
20310		1/4"					25310
20311		5/16"					25311
20312		3/8"					25312
20313		1/2"					25313
20314		5/8"					25314
20315	2"	3/16"	1"	.796 x 1-9/16"	5-11/16"	10	25315
20316		1/4"					25316
20317		5/16"					25317
20318		3/8"					25318
20319		1/2"					25319
20320		5/8"					25320
20321		3/4"					25321

Carbide Tipped EDP No.	Head Dia "O.D."	Head Width	Shank Dia.	Neck Dia. x L	Overall Length	No. of Teeth	Carbide Tipped w/ PVD EDP No.
30500	1"	1/8"	5/8"	.437 x 1"	4-15/16"		35500
30501		3/16"					35501
30502		1/4"					35502
30503		5/16"					35503
30504		3/8"					35504
30505		1/2"					35505
30506		5/8"					35506
30507	1-1/4"	1/8"	3/4"	.593 x 1-1/8"	5-1/8"	6	35507
30508		3/16"					35508
30509		1/4"					35509
30510		5/16"					35510
30511		3/8"					35511
30512		1/2"					35512
30513		5/8"					35513
30514	1-1/2"	1/8"	1"	.718 x 1-11/32"	5-5/16"	8	35514
30515		3/16"					35515
30516		1/4"					35516
30517		5/16"					35517
30518		3/8"					35518
30519		1/2"					35519
30520		5/8"					35520
30521	2"	3/16"	1"	.796 x 1-9/16"	5-11/16"	8	35521
30522		1/4"					35522
30523		5/16"					35523
30524		3/8"					35524
30525		1/2"					35525
30526		5/8"					35526
30527		3/4"					35527

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

LONG SHANK T-SLOT

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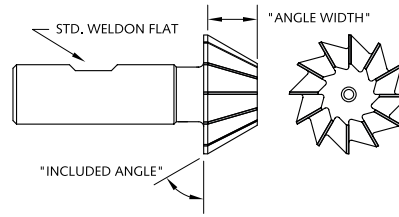
Single Angle Chamfer Milling Cutters

» HIGH SPEED STEEL- PVD COATED

- » Right Hand Cut
- » Weldon Shank
- » 45° and 60° Angles

Tolerance on Angle: +/- 1/4° (15min.)

Standard Diameter Tolerance ±.015



H.S.S. EDP No.	Included Angle	Cutter Dia.	Angle Width	Overall Length	Shank Dia.	No. of Teeth	H.S.S. w/PVD EDP No.
10750	45°	1/4"	3/32"	2-18"	3/8"	6	15750
10751		5/16"	1/8"				15751
10752		3/8"	5/32"				15752
10322		1/2"	1/8"			8	15322
10323		3/4"	3/16"				15323
10324		1"	5/16"				15324
10325	60°	1-1/2"	1/2"	2-1/2"	1/2"	10	15325
10753		1/4"	5/32"	2-3/4"	3/4"	12	15753
10754		5/16"	7/32"				15754
10755		3/8"	17/64"				15755
10326		1/2"	7/32"	8	15326		
10327		3/4"	5/16"		15327		
10328		1"	7/16"		2-1/2"	1/2"	10
10329		1-1/2"	5/8"	2-3/4"	3/4"	12	15329

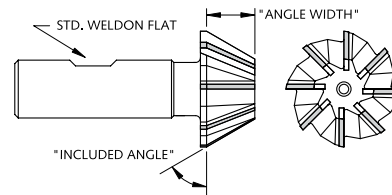
Chamfer Milling Cutters

» CARBIDE TIPPED - PVD COATED

- » Straight Tooth
- » General Purpose Carbide Grade
- » Weldon Shank

Tolerance on Angle: +/- 1/4° (15min.)

Standard Diameter Tolerance ±.015



Carbide Tipped EDP No.	Included Angle	Cutter Dia.	Angle Width	Overall Length	Shank Dia.	No. of Teeth	Carbide Tipped w/PVD EDP No.
30600*	45°	1/4"	3/32"	2"	1/4"	4	35600*
30601*		5/16"	1/8"		3/8"		35601*
30602*		3/8"	5/32"		3/8"		35602*
30096		1/2"	1/8"		3/8"	35603	
30097		3/4"	3/16"			35604	
30098		1"	5/16"			2-1/2"	1/2"
30099	1-1/2"	1/2"	2-3/4"	3/4"	8	35606	
30603*	60°	1/4"	5/32"	2"	1/4"	4	35607*
30604*		5/16"	7/32"		3/8"		35608*
30605*		3/8"	17/64"		3/8"		35609*
30100		1/2"	7/32"	2-1/8"	3/8"	6	35610
30101		3/4"	5/16"		3/8"		35611
30102		1"	7/16"		2-1/2"		1/2"
30103		1-1/2"	5/8"	2-3/4"	3/4"	8	35613

*Solid Carbide

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Made in USA

Face Angle Chamfer Milling Cutters

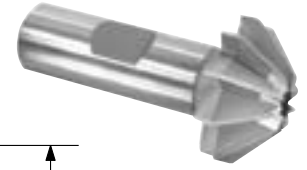
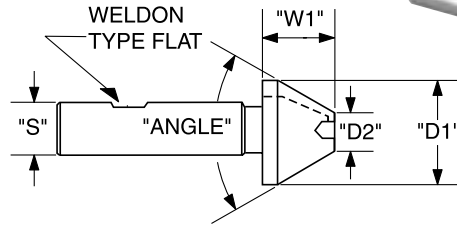
» 60 & 90° FACE ANGLE CHAMFER CUTTER HIGH SPEED STEEL - M42 COBALT - PVD COATED

- » End Cutting teeth for greater versatility
- » Exceptional value

Tolerance on Angle: +/- 1/4° (15min.)

Tolerances:

Dia. + .005/-0 Width +.010/-0



H.S.S.	Included Angle	Large Cutting Dia. D1	Small Cutting Dia. D2	Cutter Width W1	Shank	Overall Length	No. of Teeth	H.S.S. w/PVD
EDP No.								EDP No.
10583	60°	3/4"	5/16"	17/32"	3/8"	2-3/32"	8	15583
10584		1"	3/8"	1/16"	1/2"	2-13/32"		15584
10585		1-1/4"	1/2"	25/32"	5/8"	2-21/32"		15585
10586		1-5/8"	5/8"	1-1/16"	3/4"	3-1/16"		15586
10587	90°	3/4"	5/16"	3/8"	3/8"	1-15/16"	8	15587
10588		1"	3/8"	7/16"	1/2"	2-3/16"		15588
10589		1-1/4"	1/2"	17/32"	5/8"	2-13/32"		15589
10590		1-5/8"	5/8"	1/16"	3/4"	2-1/16"		15590

M42 Cobalt	Included Angle	Large Cutting Dia. D1	Small Cutting Dia. D2	Cutter Width W1	Shank	Overall Length	No. of Teeth	M42 Cobalt w/PVD
EDP No.								EDP No.
20583	60°	3/4"	5/16"	17/32"	3/8"	2-3/32"	8	25583
20584		1"	3/8"	1/16"	1/2"	2-13/32"		25584
20585		1-1/4"	1/2"	25/32"	5/8"	2-21/32"		25585
20586		1-5/8"	5/8"	1-1/16"	3/4"	3-1/16"		25586
20587	90°	3/4"	5/16"	3/8"	3/8"	1-15/16"	8	25587
20588		1"	3/8"	7/16"	1/2"	2-3/16"		25588
20589		1-1/4"	1/2"	17/32"	5/8"	2-13/32"		25589
20590		1-5/8"	5/8"	1/16"	3/4"	2-1/16"		25590

FACE ANGLE CHAMFER CUTTERS
WHITNEYTOOL.COM



See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

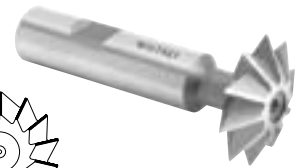
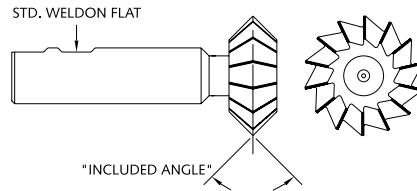
Double Angle Chamfer Milling Cutters

» HIGH SPEED STEEL - PVD COATED

- » Right Hand Cut
- » Weldon Shank
- » 60° and 90° Angles

Tolerance on Angle: +/- 1/4° (15min.)

Standard Diameter Tolerance ±.015



H.S.S. EDP No.	Included Angle	Cutter Dia.	Cutter Width	Overall Length	Shank Dia.	No. of Teeth	H.S.S. w/PVD EDP No.
10801	60°	5/16"	7/64"	2-3/8"	3/8"	6	15801
10802		3/8"	9/64"				15802
10803		1/2"	5/32"				15803
10330		3/4"	3/16"				15330
10331		1"	5/16"	2-27/32"	12"	10	15331
10332		1-3/8"	7/16"	3-7/32"	5/8"		15332
10333		1-1/2"	12"	3-3/8"	15333		
10334		1-7/8"	5/8"	3-25/32"	3/4"		14
10335		2-1/4"	3/4"	4-5/32"	7/8"	16	15335
10804		90°	5/16"	1/8"	2-3/8"	3/8"	6
10805	3/8"		5/32"	15811			
10806	1/2"		3/16"	15812			
10336	3/4"		1/4"	2-7/16"			
10337	1"		3/8"	2-29/32"	12"	12	15337
10338	1-3/8"		12"	3-9/32"	5/8"	15338	
10339	1-1/2"		9/16"	3-7/16"	5/8"	15339	
10340	1-7/8"		5/8"	3-25/32"	3/4"	14	15340
10341	2-1/4"		3/4"	4-5/32"	7/8"	16	15341

Double Angle Chamfer Milling Cutters

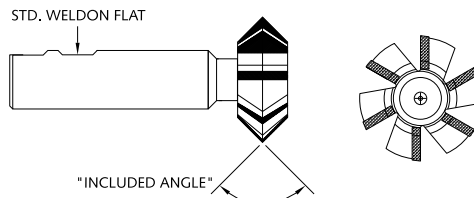
» CARBIDE TIPPED - PVD COATED

- » C2 Micrograin Carbide

Tolerances on Angle: +/- 1/4° (15min.)

Standard Diameter Tolerance ±.015

NOTE: .010/.020 Radius on O.D.



Carbide Tipped EDP No.	Included Angle	Cutter Dia.	Cutter Width	Overall Length	Shank Dia.	No. of Teeth	Carbide Tipped w/PVD EDP No.
30651*	60°	5/16"	7/64"	2"	5/16"	6	35651*
30652*		3/8"	9/64"	2"	3/8"		35652*
30653*		1/2"	5/32"	2"	1/2"		35653*
30104		3/4"	3/16"	2-3/8"	3/8"		35104
30105		1"	5/16"	2-27/32"	1/2"		35105
30106		1-3/8"	7/16"	3-7/32"	5/8"		35106
30107		1-1/2"	12"	3-3/8"	5/8"		35107
30108		1-7/8"	5/8"	3-25/32"	3/4"		35108
30109		2-1/4"	3/4"	4-5/32"	7/8"		35109
30654*		90°	5/16"	1/8"	2"		5/16"
30655*	3/8"		5/32"	2"	3/8"	35655*	
30656*	1/2"		3/16"	2"	1/2"	35656*	
30110	3/4"		1/4"	2-7/16"	3/8"	35110	
30111	1"		3/8"	2-29/32"	1/2"	35111	
30112	1-3/8"		12"	3-9/32"	5/8"	35112	
30113	1-1/2"		9/16"	3-7/16"	5/8"	35113	
30114	1-7/8"		5/8"	3-25/32"	3/4"	35114	
30115	2-1/4"		3/4"	4-5/32"	7/8"	35115	

*Solid Carbide

See Page 87 For PVD Coating Options

Standard types:

TiN, TiAlN, AlTiN, TiCN.

Additional coatings on request:

TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Profile Ground Concave Radius Milling Cutters

» RADIUS CUTTER FEATURES:

- » More teeth for faster cutting
- » Better finish possible in many materials with profile ground
- » Precision ground
- » USA made Whitney quality

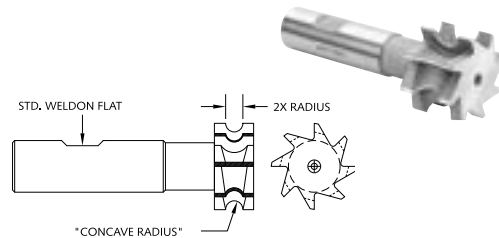
Tolerances:

OD +.005/-.000

Radius 1/8" and smaller ±.001

Radius 5/32" and larger ±.002

Special radius sizes available on request

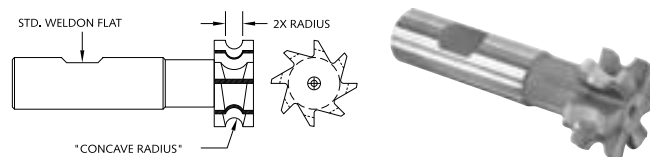


» HIGH SPEED STEEL - PVD COATED

H.S.S. EDP No.	Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	H.S.S. w/PVD EDP No.
10360	1/32"	3/4"	3/8"	1/2"	3"	8	15360
10361	1/16"						15361
10362	3/32"	7/8"	1/2"	3/4"	3-1/2"		15362
10363	1/8"	1-1/4"	9/16"				15363
10364	5/32"	1-5/16"	5/8"	3/4"	4"		15364
10365	3/16"	1-3/8"	3/4"				15365
10366	1/4"	1-1/2"	1"	15366			
10367	5/16"	1-3/4"	1-1/8"	15367			
10368	3/8"	1-7/8"	1-1/8"	15368			

» M42 COBALT - PVD COATED

M42 Cobalt EDP No.	Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	M42 Cobalt w/PVD EDP No.
20360	1/32"	3/4"	3/8"	1/2"	3"	8	25360
20361	1/16"						25361
20362	3/32"	7/8"	1/2"	3/4"	3-1/2"		25362
20363	1/8"	1-1/4"	9/16"				25363
20364	5/32"	1-5/16"	5/8"	3/4"	4"		25364
20365	3/16"	1-3/8"	3/4"				25365
20366	1/4"	1-1/2"	1"	25366			
20367	5/16"	1-3/4"	1-1/8"	25367			
20368	3/8"	1-7/8"	1-1/8"	25368			



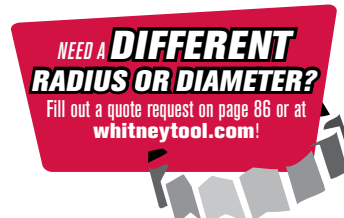
» CARBIDE TIPPED - PVD COATED

Carbide Tipped EDP No.	Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	Carbide Tipped w/PVD EDP No.
30290	1/32"	3/4"	3/8"	1/2"	3"	6	30390
30291	1/16"						30391
30292	3/32"	7/8"	1/2"	3/4"	3-1/2"		30392
30293	1/8"	1-1/4"	9/16"				30393
30294	5/32"	1-5/16"	5/8"	3/4"	4"		30394
30295	3/16"	1-3/8"	3/4"				30395
30296	1/4"	1-1/2"	1"	30396			
30297	5/16"	1-3/4"	1-1/8"	30397			
30298	3/8"	1-7/8"	1-1/4"	30398			

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN.

Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Profile Ground Convex Radius Milling Cutters

» RADIUS CUTTER FEATURES:

- » More teeth for faster cutting
- » Better finish possible in many materials with profile ground
- » Precision ground
- » USA made Whitney quality

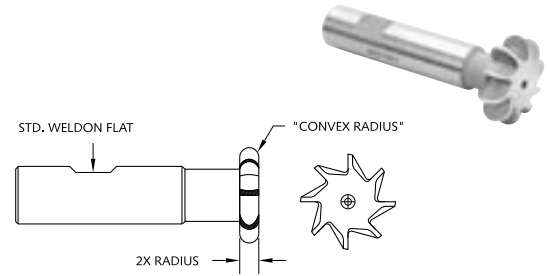
Tolerances:

Dia. +.005/-0.000

Radius 1/8" and smaller ±.001

Radius 5/32" and larger ±.002

Special radius sizes available on request

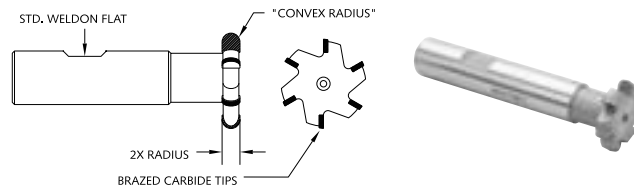


» HIGH SPEED STEEL - PVD COATED

H.S.S. EDP No.	Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	H.S.S. w/PVD EDP No.
10344	1/32"	3/4"	1/16"	1/2"	3"	8	15344
10345	1/16"	3/4"	1/8"				15345
10346	3/32"	7/8"	3/16"				15346
10347	1/8"	1-1/4"	1/4"	3/4"	3-1/2"	10	15347
10348	5/32"	1-5/16"	5/16"				15348
10349	3/16"	1-3/8"	3/8"				15349
10350	1/4"	1-1/2"	1/2"				15350
10351	5/16"	1-3/4"	5/8"				15351
10352	3/8"	1-7/8"	3/4"				15352

» M42 COBALT - PVD COATED

M42 Cobalt EDP No.	Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	M42 Cobalt w/PVD EDP No.
20344	1/32"	3/4"	1/16"	1/2"	3"	8	25344
20345	1/16"	3/4"	1/8"				25345
20346	3/32"	7/8"	3/16"				25346
20347	1/8"	1-1/4"	1/4"	3/4"	3-1/2"	10	25347
20348	5/32"	1-5/16"	5/16"				25348
20349	3/16"	1-3/8"	3/8"				25349
20350	1/4"	1-1/2"	1/2"				25350
20351	5/16"	1-3/4"	5/8"				25351
20352	3/8"	1-7/8"	3/4"				25352



» CARBIDE TIPPED - PVD COATED

Carbide Tipped EDP No.	Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	Carbide Tipped w/PVD EDP No.
30118	1/32"	3/4"	1/16"	1/2"	3"	6	35118
30119	1/16"	3/4"	1/8"				35119
30120	3/32"	7/8"	3/16"				35120
30121	1/8"	1-1/4"	1/4"	3/4"	3-1/2"	6	35121
30122	5/32"	1-5/16"	5/16"				35122
30123	3/16"	1-3/8"	3/8"				35123
30124	1/4"	1-1/2"	1/2"				35124
30125	5/16"	1-3/4"	5/8"				35125
30126	3/8"	1-7/8"	3/4"				35126

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

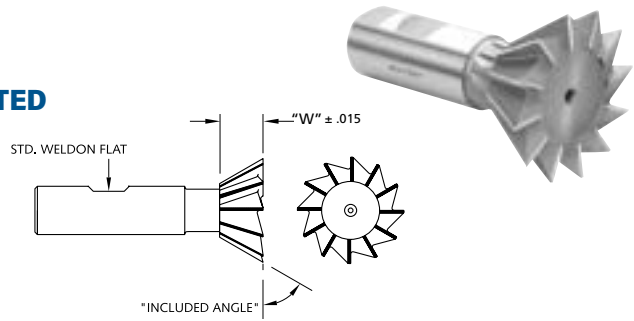
Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Dovetail Milling Cutters

» HIGH SPEED STEEL - M42 COBALT - PVD COATED

- » Right Hand Cut
- » Single Angle
- » Weldon Shank



Diameter Tolerances:

Dia. +/- .010

Angle: +/- (1/4°)

Standard Width Tolerance ±.0150

H.S.S. EDP No.	Cutter Diameter	Included Angle	Cutter Width	Shank Diameter	Overall Length	No. of Teeth	H.S.S. w/PVD EDP No.
10597	1/8"	45°	.040"	1/4"	2"	4	15597
10599	3/16"		3/64"				15599
10600	1/4"		1/16"			15600	
10260	3/8"		18"	3/8"	2-1/8"	6	15260
10261	1/2"		1/8"				15261
10262	3/4"		3/16"	12"	2-1/2"	10	15262
10263	1"		1/4"				15263
10264	1-3/8"		3/8"	5/8"	2-7/8"	12	15264
10265	1-7/8"		1/2"	7/8"	3-1/4"		15265
10266	2-1/4"		11/16"	1"	3-3/4"	12	15266
10267	2-1/2"	3/4"	15267				
10612	1/8"	60°	1/16"	1/4"	2"	4	15612
10614	3/16"		3/32"				15614
10615	1/4"		1/8"			15615	
10268	3/8"		3/16"	3/8"	2-1/8"	8	15268
10269	1/2"		7/32"				15269
10270	3/4"		5/16"	12"	2-1/2"	10	15270
10271	1"		7/16"				12"
10272	1-3/8"		9/16"	5/8"	2-7/8"	12	15272
10273	1-7/8"		13/16"	7/8"	3-1/4"		15273
10274	2-1/4"		1-1/16"	1"	3-3/4"	12	15274
10275	2-1/2"	1-1/8"	15275				

M42 Cobalt EDP No.	Cutter Diameter	Included Angle	Cutter Width	Shank Diameter	Overall Length	No. of Teeth	M42 Cobalt w/PVD EDP No.		
20597	1/8"	45°	.040"	1/4"	2"	4	25597		
20599	3/16"		3/64"				25599		
20600	1/4"		1/16"			25600			
20260	3/8"		18"	3/8"	2-1/8"	6	25260		
20261	1/2"		1/8"				25261		
20262	3/4"		3/16"	12"	2-1/2"	10	25262		
20263	1"		1/4"				12"	2-7/8"	25263
20264	1-3/8"		3/8"	5/8"	2-7/8"	12	25264		
20265	1-7/8"		1/2"	7/8"	3-1/4"		25265		
20266	2-1/4"		11/16"	1"	3-3/4"	12	25266		
20267	2-1/2"	3/4"	25267						
20614	1/8"	60°	1/16"	1/4"	2"	4	25614		
20615	3/16"		3/32"				14"	2"	6
20616	1/4"		1/8"			25616			
20268	3/8"		3/16"	3/8"	2-1/8"	8	25268		
20269	1/2"		7/32"				25269		
20270	3/4"		5/16"	12"	2-1/2"	10	25270		
20271	1"		7/16"				12"	2-7/8"	25271
20272	1-3/8"		9/16"	5/8"	2-7/8"	12	25272		
20273	1-7/8"		13/16"	7/8"	3-1/4"		25273		
20274	2-1/4"		1-1/16"	1"	3-3/4"	12	25274		
20275	2-1/2"	1-1/8"	25275						

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



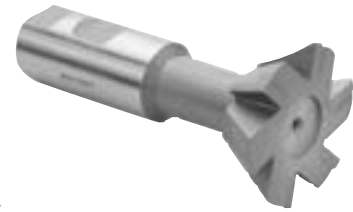
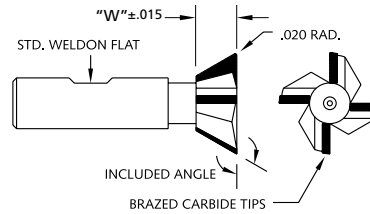
Dovetail Milling Cutters

» SOLID CARBIDE - CARBIDE TIPPED - PVD COATED

- » Micrograin Carbide
- » Right Hand Cut
- » Single Angle
- » Weldon Shank

Tolerance on Angle: +/- 1/4° (15min.)

Standard Width Tolerance ±.0150



Carbide EDP No.	Cutter Dia.	Included Angle	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	Carbide w/PVD EDP No.	
30400*	1/8"	45°	.040"	1/4"	2"	2	35400*	
30401*	3/16"		35401*					
30402*	1/4"		35402*					
30288*	3/8"		35288*					
30071	1/2"		3/8"	5/32"	2-3/8"	3	35071	
30072	3/4"			1/4"			2-1/4"	35072
30073	1"		1/2"	5/16"	2-1/2"	4	35073	
30074	1-1/4"			5/16"			2-3/4"	35074
30075	1-1/2"		1/2"	3/4"	3-1/4"		35075	
30076	2"		5/8"	1"	4-1/4"		35076	
30077	2-1/2"		3/4"	1"	1-1/4"	6	4-3/8"	35077
30078	3"						4-1/2"	35078
30403*	1/8"		60°	1/16"	1/4"	2"	2	35403*
30404*	3/16"			3/32"				35404*
30405*	1/4"	1/8"		35405*				
30289*	3/8"	3/16"		2-3/8"				35289*
30079	1/2"	7/32"		3/8"	2-1/8"	3	35079	
30080	3/4"						1/4"	2-1/4"
30081	1"	3/8"		1/2"	2-1/2"	4	35081	
30082	1-1/4"						1/2"	2-3/4"
30083	1-1/2"	5/8"		3/4"	3-1/4"		35083	
30084	2"	3/4"		1"	4-1/4"		35084	
30085	2-1/2"	7/8"		1-1/4"	4-3/8"	6	35085	
30086	3"						1-1/8"	4-1/2"

**1/8" to 3/8" Diameter Solid Carbide*

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DOVETAIL CUTTERS



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See Page 87 For PVD Coating Options

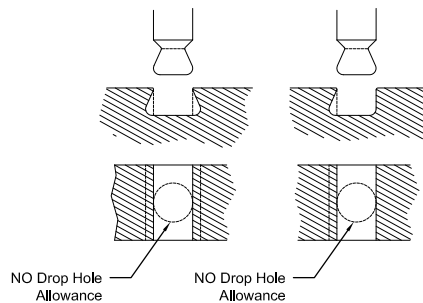
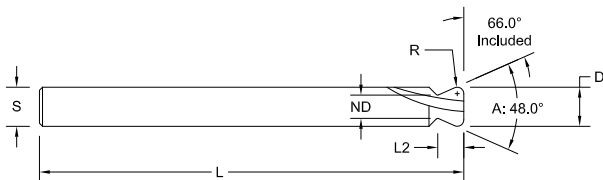
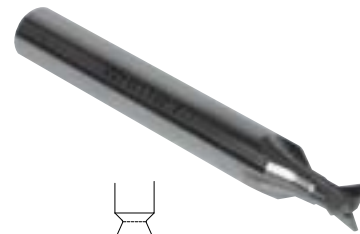
Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

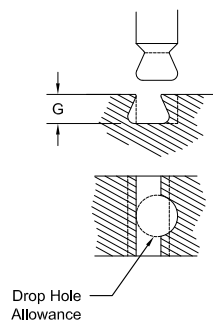
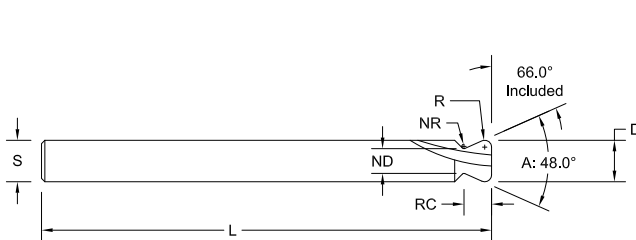
Parker Hannifin O-Ring Dovetail Milling Cutters

» SOLID CARBIDE - WITHOUT DROP HOLE PROVISION

Tolerances:
 OD +0/-0.002
 Radius ±0.001
 Angle ±1/4°



WITHOUT Drop Hole Provision								
EDP No.	D Dia.	A Included Angle	L2 Length of Cut	R Radius	ND Neck Dia.	S Shank Dia.	L Length	Flutes
97150	0.055	66°	0.054	0.015	0.023	1/8	1-1/2	2
97151	0.083		0.085	0.015	0.024			
97152	0.113		0.115	0.031	0.044			
97153	0.171		0.176	0.031	0.048	3/16	2	
97154	0.231		0.238	0.062	0.086	1/4	2	
97155	0.315		0.323	0.093	0.128	3/8	2-1/2	



» SOLID CARBIDE - WITH DROP HOLE PROVISION

WITH Drop Hole Provision									
EDP No.	D Dia.	A Included Angle	G Gland Depth	R Radius	ND Neck Dia.	NR Neck Radius	S Shank Dia.	L Length	Flutes
97156	0.079	66°	0.051	0.015	0.054	0.005	1/8	1-1/2	2
97157	0.084		0.054	0.015	0.056	0.005			
97158	0.135		0.082	0.015	0.088	0.01			
97159	0.172		0.112	0.031	0.116	0.01	3/16	2	
97160	0.284		0.172	0.031	0.179	0.015	5/16	2-1/2	
97161	0.362		0.232	0.062	0.237	0.015	3/8		
97162	0.488	0.317	0.093	0.327	0.02	1/2	3	3	

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Tapered End Mills

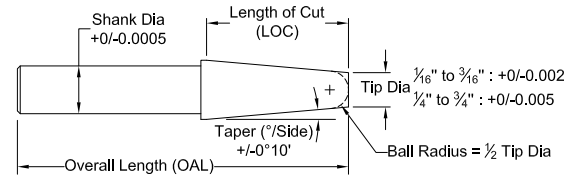
» **SOLID CARBIDE - PVD COATED - BALL END AND SQUARE END**



Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. Solid Carbide	EDP No. PVD	EDP No. Solid Carbide	EDP No. PVD
1/2°	1/16	1/2	1/8	3	03000	03200	03500	03700
	1/16	1	1/8	3	03001	03201	03501	03701
	3/32	3/4	1/8	3	03002	03202	03502	03702
	5/64	1/2	1/8	3	03003	03203	03503	03703
	5/64	1	1/8	3	03004	03204	03504	03704
	1/8	3/4	1/4	2-1/2	03005	03205	03505	03705
	1/8	1	1/4	3	03006	03206	03506	03706
	3/16	3/4	1/4	2-1/2	03007	03207	03507	03707
	3/16	1-1/4	1/4	3	03008	03208	03508	03708
	1/4	3/4	3/8	2-1/2	03009	03209	03509	03709
1°	1/4	1-1/4	3/8	3	03010	03210	03510	03710
	1/16	1/2	1/8	3	03011	03211	03511	03711
	1/16	1	1/8	3	03012	03212	03512	03712
	3/32	1/2	1/8	3	03013	03213	03513	03713
	3/32	1	1/8	3	03014	03214	03514	03714
	5/64	1/2	1/8	3	03015	03215	03515	03715
	5/64	1	1/8	3	03016	03216	03516	03716
	1/8	3/4	1/4	2-1/2	03017	03217	03517	03717
	1/8	1	1/4	3	03018	03218	03518	03718
	1/8	1-1/2	1/4	3	03019	03219	03519	03719
	1/8	3/4	1/4	2-1/2	03020	03220	03520	03720
	3/16	1-1/4	1/4	3	03021	03221	03521	03721
	3/16	1-3/4	1/4	4	03022	03222	03522	03722
	1/4	3/4	3/8	2-1/2	03023	03223	03523	03723
	1/4	1-1/4	3/8	3	03024	03224	03524	03724
1/4	2	3/8	4	03025	03225	03525	03725	
1-1/2°	1/16	1/2	1/8	3	03026	03226	03526	03726
	1/16	1	1/8	3	03027	03227	03527	03727
	3/32	1	1/8	3	03028	03228	03528	03728
	5/64	1/2	1/8	3	03029	03229	03529	03729
	5/64	1	3/16	3	03030	03230	03530	03730
	1/8	3/4	1/4	2-1/2	03031	03231	03531	03731
	1/8	1-1/2	1/4	3	03032	03232	03532	03732
	3/16	1-1/4	3/8	3	03033	03233	03533	03733
	3/16	1-3/4	3/8	3-1/2	03034	03234	03534	03734
	1/4	3/4	3/8	2-1/2	03035	03235	03535	03735
	1/4	1-1/4	3/8	3	03036	03236	03536	03736
	1/16	1/2	1/8	3	03037	03237	03537	03737
2°	1/16	1	1/8	3	03038	03238	03538	03738
	3/32	3/4	1/4	2-1/2	03039	03239	03539	03739
	3/32	1	1/4	3	03040	03240	03540	03740
	5/64	1/2	3/16	3	03041	03241	03541	03741
	5/64	1	3/16	3	03042	03242	03542	03742
	1/8	3/4	1/4	2-1/2	03043	03243	03543	03743
	1/8	1-1/4	1/4	3	03044	03244	03544	03744
	3/16	3/4	1/4	2-1/2	03045	03245	03545	03745
	3/16	1-1/4	3/8	3	03046	03246	03546	03746
	3/16	1-3/4	3/8	3-1/2	03047	03247	03547	03747
	1/4	3/4	3/8	2-1/2	03048	03248	03548	03748
	1/4	1-1/4	3/8	3	03049	03249	03549	03749
	1/4	2	1/2	4	03050	03250	03550	03750

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TAPERED ENDMILLS



See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

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Tapered End Mills

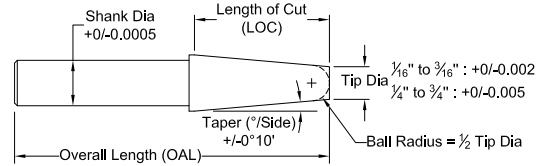
» SOLID CARBIDE - PVD COATED - BALL END AND SQUARE END



Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. Solid Carbide	EDP No. PVD	EDP No. Solid Carbide	EDP No. PVD
3°	1/16	1/2	1/8	3	03051	03251	03551	03751
	1/16	1	1/4	3	03052	03252	03552	03752
	3/32	1	1/4	3	03053	03253	03553	03753
	3/32	1-1/2	1/4	3	03054	03254	03554	03754
	1/8	3/4	1/4	2-1/2	03055	03255	03555	03755
	1/8	1	1/4	3	03056	03256	03556	03756
	1/8	1-1/2	3/8	3-1/2	03057	03257	03557	03757
	1/8	2	3/8	4	03058	03258	03558	03758
	5/32	1-1/4	3/8	3	03059	03259	03559	03759
	5/32	1-3/4	3/8	3-1/2	03060	03260	03560	03760
	3/16	3/4	3/8	2-1/2	03061	03261	03561	03761
	3/16	1-1/4	3/8	3	03062	03262	03562	03762
	1/4	3/4	3/8	2-1/2	03063	03263	03563	03763
	1/4	1-1/4	3/8	3	03064	03264	03564	03764
1/4	2	1/2	4	03065	03265	03565	03765	
4°	3/32	1	1/4	3	03066	03266	03566	03766
	1/8	3/4	1/4	2-1/2	03067	03267	03567	03767
	1/8	1	3/8	3	03068	03268	03568	03768
	3/16	3/4	3/8	2-1/2	03069	03269	03569	03769
	3/16	1-1/4	3/8	3	03070	03270	03570	03770
	1/4	3/4	3/8	2-1/2	03071	03271	03571	03771
	1/4	1-1/4	1/2	3	03072	03272	03572	03772
	1/16	1/2	1/4	2-1/2	03073	03273	03573	03773
5°	1/16	1	1/4	3	03074	03274	03574	03774
	3/32	3/4	1/4	2-1/2	03075	03275	03575	03775
	3/32	1	3/8	3	03076	03276	03576	03776
	3/32	1-1/2	3/8	3-1/2	03077	03277	03577	03777
	3/64	1/2	3/16	2-1/2	03078	03278	03578	03778
	3/64	1	3/8	3	03079	03279	03579	03779
	1/8	3/4	1/4	2-1/2	03080	03280	03580	03780
	1/8	1	3/8	3	03081	03281	03581	03781
	1/8	1-1/2	3/8	3-1/2	03082	03282	03582	03782
	3/16	3/4	3/8	2-1/2	03083	03283	03583	03783
	3/16	1-1/4	1/2	3-1/2	03084	03284	03584	03784
	1/4	3/4	1/2	3	03085	03285	03585	03785
	1/4	1	1/2	3	03086	03286	03586	03786
	1/4	1-1/4	1/2	3-1/2	03087	03287	03587	03787
1/4	2	5/8	4	03088	03288	03588	03788	
7°	3/32	1	3/8	3	03089	03289	03589	03789
	1/8	1/2	3/8	2-1/2	03090	03290	03590	03790
	1/8	3/4	3/8	2-1/2	03091	03291	03591	03791
	1/8	1	3/8	3	03092	03292	03592	03792
	1/8	1-1/2	1/2	3-1/2	03093	03293	03593	03793
	5/32	3/4	3/8	3-1/2	03094	03294	03594	03794
	3/16	1-1/4	1/2	3-1/2	03095	03295	03595	03795
	1/4	3/4	1/2	3-1/2	03096	03296	03596	03796
	1/4	1-1/4	5/8	3-1/2	03097	03297	03597	03797
	3/32	1/2	1/4	2-1/2	03098	03298	03598	03798
10°	3/32	1-1/2	5/8	3-1/2	03099	03299	03599	03799
	1/8	3/4	3/8	2-1/2	03100	03300	03600	03800
	1/8	1	1/2	3	03101	03301	03601	03801
	1/8	1-1/4	5/8	3-1/2	03102	03302	03602	03802
	3/16	1-1/4	5/8	3-1/2	03103	03303	03603	03803
	1/4	3/4	5/8	3-1/2	03104	03304	03604	03804
	1/4	1	5/8	3-1/2	03105	03305	03605	03805
15°	1/8	1	3/4	4	03106	03306	03606	03806
	3/16	1	3/4	4	03107	03307	03607	03807
	1/4	1	3/4	4	03108	03308	03608	03808

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

LOOKING FOR A **DIFFERENT**
ANGLE OR CUT LENGTH?
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TAPERED END MILLS
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Tapered End Mills

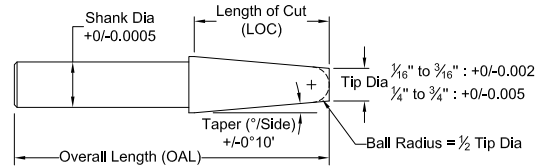
» HIGH SPEED STEEL - PVD COATED - BALL END AND SQUARE END



Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. HSS	EDP No. PVD	EDP No. HSS	EDP No. PVD
1/2°	3/32	1/2	3/8	2-1/2	01000	01500	02000	02500
	3/32	3/4	3/8	2-1/2	01001	01501	02001	02501
	3/32	1-1/4	3/8	3-1/8	01002	01502	02002	02502
	1/8	1/4	3/8	2-1/2	01003	01503	02003	02503
	1/8	1/2	3/8	2-1/2	01004	01504	02004	02504
	1/8	3/4	3/8	2-1/2	01005	01505	02005	02505
	1/8	1	3/8	2-7/8	01006	01506	02006	02506
	1/8	1-1/4	3/8	3-1/8	01007	01507	02007	02507
	1/8	1-1/2	3/8	3-1/4	01008	01508	02008	02508
	3/16	3/4	3/8	2-1/2	01009	01509	02009	02509
	3/16	1-1/4	3/8	3-1/8	01010	01510	02010	02510
	3/16	1-3/4	3/8	3-7/8	01011	01511	02011	02511
	1/4	3/4	3/8	2-1/2	01012	01512	02012	02512
	1/4	1-1/4	3/8	3-1/8	01013	01513	02013	02513
	1/4	2-1/4	3/8	4-1/4	01014	01514	02014	02514
	1/4	3-1/4	1/2	5-1/2	01015	01515	02015	02515
	3/8	1-1/4	1/2	3-1/8	01016	01516	02016	02516
	3/8	2-1/4	1/2	4-1/4	01017	01517	02017	02517
	3/8	3-1/4	1/2	5-1/2	01018	01518	02018	02518
	1/2	1-1/4	1/2	3-1/8	01019	01519	02019	02519
	1/2	2-1/4	1/2	4-1/4	01020	01520	02020	02520
	1/2	3-1/4	1/2	5-1/2	01021	01521	02021	02521
	5/8	2-1/4	5/8	4-1/2	01022	01522	02022	02522
	5/8	3-1/4	5/8	5-1/2	01023	01523	02023	02523
	5/8	4-1/4	5/8	6-1/2	01024	01524	02024	02524
	3/4	2-1/4	3/4	4-1/2	01025	01525	02025	02525
	3/4	3-1/4	3/4	5-3/4	01026	01526	02026	02526
	3/4	4-1/4	3/4	6-3/4	01027	01527	02027	02527
3/4	5-1/4	3/4	7-3/4	01028	01528	02028	02528	
1°	3/32	1/2	3/8	2-1/2	01029	01529	02029	02529
	3/32	3/4	3/8	2-1/2	01030	01530	02030	02530
	3/32	1-1/4	3/8	3-1/8	01031	01531	02031	02531
	1/8	1/4	3/8	2-1/2	01032	01532	02032	02532
	1/8	1/2	3/8	2-1/2	01033	01533	02033	02533
	1/8	3/4	3/8	2-1/2	01034	01534	02034	02534
	1/8	1	3/8	2-7/8	01035	01535	02035	02535
	1/8	1-1/4	3/8	3-1/8	01036	01536	02036	02536
	1/8	1-1/2	3/8	3-1/4	01037	01537	02037	02537
	1/8	2	3/8	3-7/8	01038	01538	02038	02538
	3/16	3/4	3/8	2-1/2	01039	01539	02039	02539
	3/16	1-1/4	3/8	3-1/8	01040	01540	02040	02540
	3/16	2	3/8	3-7/8	01041	01541	02041	02541
	1/4	3/4	3/8	2-1/2	01042	01542	02042	02542
	1/4	1-1/4	3/8	3-1/8	01043	01543	02043	02543
	1/4	2-1/4	3/8	4-1/4	01044	01544	02044	02544
	1/4	3-1/4	1/2	5-1/2	01045	01545	02045	02545

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TAPERED END MILLS

Made in USA

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

LOOKING FOR A **DIFFERENT**
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Tapered End Mills

» HIGH SPEED STEEL - PVD COATED - BALL END AND SQUARE END



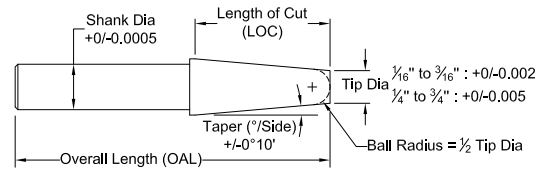
Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°

Length Of Cut (LOC):

1/4 inch - 6 inches (1/4" increments)



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. HSS	EDP No. PVD	EDP No. HSS	EDP No. PVD
1°	3/8	1-1/4	1/2	3-1/8	01046	01546	02046	02546
	3/8	2-1/4	1/2	4-1/4	01047	01547	02047	02547
	3/8	3-1/4	1/2	5-1/2	01048	01548	02048	02548
	1/2	1-1/4	1/2	3-1/8	01049	01549	02049	02549
	1/2	2-1/4	1/2	4-1/4	01050	01550	02050	02550
	1/2	3-1/4	1/2	5-1/2	01051	01551	02051	02551
	5/8	2-1/4	5/8	4-1/2	01052	01552	02052	02552
	5/8	3-1/4	5/8	5-1/2	01053	01553	02053	02553
	5/8	4-1/4	5/8	6-1/2	01054	01554	02054	02554
	3/4	2-1/4	3/4	4-3/4	01055	01555	02055	02555
	3/4	3-1/4	3/4	5-3/4	01056	01556	02056	02556
	3/4	4-1/4	3/4	6-3/4	01057	01557	02057	02557
1-1/2°	3/4	5-1/4	3/4	7-3/4	01058	01558	02058	02558
	3/32	1/2	3/8	2-1/2	01059	01559	02059	02559
	3/32	3/4	3/8	2-7/8	01060	01560	02060	02560
	3/32	1	3/8	2-7/8	01061	01561	02061	02561
	3/32	1-1/4	3/8	3-1/8	01062	01562	02062	02562
	3/32	1-1/2	3/8	3-1/4	01063	01563	02063	02563
	7/64	1	3/8	2-7/8	01064	01564	02064	02564
	7/64	1-1/2	3/8	3-1/4	01065	01565	02065	02565
	7/64	2	3/8	3-7/8	01066	01566	02066	02566
	1/8	1/2	3/8	2-1/2	01067	01567	02067	02567
	1/8	3/4	3/8	2-1/2	01068	01568	02068	02568
	1/8	1	3/8	2-7/8	01069	01569	02069	02569
	1/8	1-1/4	3/8	3-1/8	01070	01570	02070	02570
	1/8	1-1/2	3/8	3-1/4	01071	01571	02071	02571
	1/8	2	3/8	3-7/8	01072	01572	02072	02572
	5/32	1	3/8	2-7/8	01073	01573	02073	02573
	5/32	1-1/4	3/8	3-1/4	01074	01574	02074	02574
	5/32	1-1/2	3/8	3-1/4	01075	01575	02075	02575
	3/16	3/4	3/8	2-1/2	01076	01576	02076	02576
	3/16	1-1/4	3/8	3-1/8	01077	01577	02077	02577
	3/16	2-1/4	3/8	4	01078	01578	02078	02578
	1/4	3/4	3/8	2-1/2	01079	01579	02079	02579
	1/4	1-1/4	3/8	3-1/8	01080	01580	02080	02580
	1/4	2-1/4	1/2	4-1/4	01081	01581	02081	02581
	1/4	3-1/4	1/2	5-1/2	01082	01582	02082	02582
	3/8	1-1/4	1/2	3-1/8	01083	01583	02083	02583
	3/8	2-1/4	1/2	4-1/4	01084	01584	02084	02584
	3/8	3-1/4	5/8	5-1/2	01085	01585	02085	02585
	1/2	1-1/4	1/2	3-1/8	01086	01586	02086	02586
	1/2	2-1/4	1/2	4-1/4	01087	01587	02087	02587
	1/2	3-1/4	5/8	5-1/2	01088	01588	02088	02588
	5/8	2-1/4	3/4	4-1/2	01089	01589	02089	02589
5/8	3-1/4	3/4	5-1/2	01090	01590	02090	02590	
5/8	4-1/4	3/4	6-1/2	01091	01591	02091	02591	
3/4	2-1/4	3/4	4-3/4	01092	01592	02092	02592	
3/4	5-1/4	1	7-3/4	01093	01593	02093	02593	

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

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TAPERED END MILLS

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Tapered End Mills

» HIGH SPEED STEEL - PVD COATED - BALL END AND SQUARE END



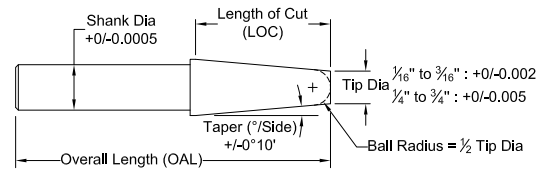
Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°

Length Of Cut (LOC):

1/4 inch - 6 inches (1/4" increments)



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. HSS	EDP No. PVD	EDP No. HSS	EDP No. PVD
2°	1/16	1/2	3/8	2-5/8	01094	01594	02094	02594
	1/16	1	3/8	2-7/8	01095	01595	02095	02595
	3/32	1/2	3/8	2-1/2	01096	01596	02096	02596
	3/32	3/4	3/8	2-1/2	01097	01597	02097	02597
	3/32	1-1/4	3/8	3-1/4	01098	01598	02098	02598
	1/8	1/2	3/8	2-1/2	01099	01599	02099	02599
	1/8	3/4	3/8	2-1/2	01100	01600	02100	02600
	1/8	1	3/8	2-7/8	01101	01601	02101	02601
	1/8	1-1/4	3/8	3-1/8	01102	01602	02102	02602
	1/8	1-1/2	3/8	3-1/4	01103	01603	02103	02603
	1/8	2	3/8	3-7/8	01104	01604	02104	02604
	3/16	3/4	3/8	2-1/2	01105	01605	02105	02605
	3/16	1-1/4	3/8	3-1/8	01106	01606	02106	02606
	3/16	2	3/8	3-7/8	01107	01607	02107	02607
	1/4	3/4	3/8	2-1/2	01108	01608	02108	02608
	1/4	1-1/4	3/8	3-1/8	01109	01609	02109	02609
	1/4	2-1/4	1/2	4-1/4	01110	01610	02110	02610
	1/4	3-1/4	1/2	5-1/2	01111	01611	02111	02611
	3/8	1-1/4	1/2	3-1/8	01112	01612	02112	02612
	3/8	2-1/4	1/2	4-1/4	01113	01613	02113	02613
	3/8	3-1/4	5/8	5-1/2	01114	01614	02114	02614
	1/2	1-1/4	1/2	3-1/8	01115	01615	02115	02615
	1/2	2-1/4	1/2	4-1/4	01116	01616	02116	02616
	1/2	3-1/4	5/8	5-1/2	01117	01617	02117	02617
	5/8	2-1/4	3/4	4-1/2	01118	01618	02118	02618
	5/8	3-1/4	3/4	5-1/2	01119	01619	02119	02619
	5/8	4-1/4	3/4	6-1/2	01120	01620	02120	02620
	3/4	2-1/4	3/4	4-1/2	01121	01621	02121	02621
3/4	3-1/4	1	5-3/4	01122	01622	02122	02622	
3/4	5-1/4	1	7-3/4	01123	01623	02123	02623	
3°	1/16	1/2	3/8	2-5/8	01124	01624	02124	02624
	1/16	3/4	3/8	2-7/8	01125	01625	02125	02625
	1/16	1	3/8	2-7/8	01126	01626	02126	02626
	0.07	1-1/2	3/8	3-1/4	01127	01627	02127	02627
	3/32	3/4	3/8	2-7/8	01128	01628	02128	02628
	3/32	1	3/8	2-7/8	01129	01629	02129	02629
	3/32	1-1/4	3/8	3-1/8	01130	01630	02130	02630
	3/32	1-1/2	3/8	3-1/4	01131	01631	02131	02631
	3/32	2	3/8	3-5/8	01132	01632	02132	02632
	3/32	2-1/2	3/8	4-1/2	01133	01633	02133	02633
	7/64	1	3/8	2-7/8	01134	01634	02134	02634
	7/64	1-1/2	3/8	3-1/4	01135	01635	02135	02635
	7/64	2	3/8	3-5/8	01136	01636	02136	02636
	1/8	3/4	3/8	2-1/2	01137	01637	02137	02637
	1/8	1	3/8	2-7/8	01138	01638	02138	02638
	1/8	1-1/4	3/8	3-1/8	01139	01639	02139	02639

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TAPERED END MILLS

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See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Tapered End Mills

» HIGH SPEED STEEL - PVD COATED - BALL END AND SQUARE END



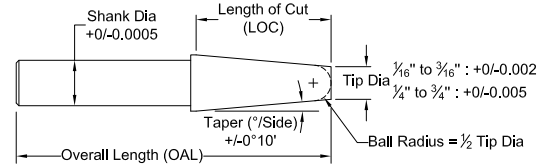
Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°

Length Of Cut (LOC):

1/4 inch - 6 inches (1/4" increments)



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. HSS	EDP No. PVD	EDP No. HSS	EDP No. PVD
3°	1/8	1-1/2	3/8	3-1/4	01140	01640	02140	02640
	1/8	2	3/8	3-5/8	01141	01641	02141	02641
	1/8	2-1/2	3/8	4-1/2	01142	01642	02142	02642
	1/8	3	3/8	5	01143	01643	02143	02643
	1/8	1-1/8	3/8	2-3/4	01144	01644	02144	02644
	5/32	1	3/8	2-7/8	01145	01645	02145	02645
	5/32	1-1/4	3/8	3-1/8	01146	01646	02146	02646
	5/32	1-1/2	3/8	3-1/4	01147	01647	02147	02647
	5/32	2	3/8	3-5/8	01148	01648	02148	02648
	3/16	3/4	3/8	2-1/2	01149	01649	02149	02649
	3/16	1-1/4	3/8	3-1/8	01150	01650	02150	02650
	3/16	1-1/2	3/8	3-1/8	01151	01651	02151	02651
	3/16	2	1/2	4-1/8	01152	01652	02152	02652
	3/16	2-1/2	1/2	4-1/2	01153	01653	02153	02653
	3/16	3	1/2	5	01154	01654	02154	02654
	3/16	3-1/4	5/8	5-1/2	01155	01655	02155	02655
	3/16	4	5/8	6-1/2	01156	01656	02156	02656
	3/16	5	3/4	7-1/4	01157	01657	02157	02657
	1/4	3/4	3/8	2-1/2	01158	01658	02158	02658
	1/4	1	3/8	2-3/4	01159	01659	02159	02659
	1/4	1-1/4	3/8	3-1/8	01160	01660	02160	02660
	1/4	2-1/4	1/2	4-1/4	01161	01661	02161	02661
	1/4	3-1/4	5/8	5-1/2	01162	01662	02162	02662
	1/4	4	5/8	6-1/2	01163	01663	02163	02663
	1/4	5	3/4	7-3/8	01164	01664	02164	02664
	3/8	1-1/4	1/2	3-1/8	01165	01665	02165	02665
	3/8	2-1/4	5/8	4-1/4	01166	01666	02166	02666
	3/8	3-1/4	3/4	5-1/2	01167	01667	02167	02667
	3/8	4	3/4	6-1/2	01168	01668	02168	02668
	3/8	5	3/4	7-1/2	01169	01669	02169	02669
	1/2	1-1/4	1/2	3-1/8	01170	01670	02170	02670
	1/2	2-1/4	5/8	4-1/4	01171	01671	02171	02671
	1/2	2-1/4	1/2	4-1/8	01172	01672	02172	02672
	1/2	3-1/4	3/4	5-1/2	01173	01673	02173	02673
	1/2	4	3/4	6-1/2	01174	01674	02174	02674
	1/2	5	1	7-1/2	01175	01675	02175	02675
	5/8	2-1/4	3/4	4-1/2	01176	01676	02176	02676
	5/8	3-1/4	3/4	5-1/2	01177	01677	02177	02677
	5/8	4	1	6-1/2	01178	01678	02178	02678
	5/8	5	1	7-1/2	01179	01679	02179	02679
3/4	2-1/4	1	4-3/4	01180	01680	02180	02680	
3/4	3-1/4	1	5-3/4	01181	01681	02181	02681	
3/4	4	1	6-1/2	01182	01682	02182	02682	
3/4	5	1	7-1/2	01183	01683	02183	02683	
4°	3/32	1	3/8	2-7/8	01184	01684	02184	02684
	1/8	3/4	3/8	2-1/2	01185	01685	02185	02685
	1/8	1	3/8	2-7/8	01186	01686	02186	02686
	1/8	1-1/2	3/8	3-1/4	01187	01687	02187	02687

TAPERED END MILLS

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See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

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Tapered End Mills

» HIGH SPEED STEEL - PVD COATED - BALL END AND SQUARE END



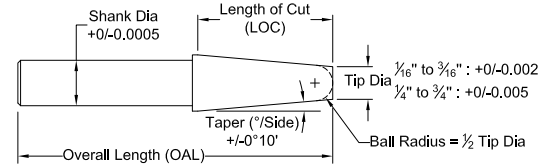
Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°

Length Of Cut (LOC):

1/4 inch - 6 inches (1/4" increments)



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. HSS	EDP No. PVD	EDP No. HSS	EDP No. PVD
4°	1/8	2	1/2	3-7/8	01188	01688	02188	02688
	1/8	2-1/2	1/2	4-1/2	01189	01689	02189	02689
	3/16	3/4	3/8	2-1/2	01190	01690	02190	02690
	3/16	1-1/4	3/8	3-1/8	01191	01691	02191	02691
	3/16	2-1/2	1/2	4-1/2	01192	01692	02192	02692
	3/16	3-1/4	5/8	5-1/2	01193	01693	02193	02693
	3/16	4	3/4	6-1/2	01194	01694	02194	02694
	1/4	3/4	3/8	2-1/2	01195	01695	02195	02695
	1/4	1-1/4	1/2	3-1/8	01196	01696	02196	02696
	1/4	2-1/4	5/8	4-1/4	01197	01697	02197	02697
	1/4	3-1/4	3/4	5-1/2	01198	01698	02198	02698
	1/4	4	3/4	6-1/2	01199	01699	02199	02699
	3/8	1-1/4	1/2	3-1/8	01200	01700	02200	02700
	3/8	2-1/4	5/8	4-1/4	01201	01701	02201	02701
	3/8	3-1/4	3/4	5-1/2	01202	01702	02202	02702
	3/8	4	3/4	6-1/2	01203	01703	02203	02703
	1/2	1-1/4	1/2	3-1/8	01204	01704	02204	02704
	1/2	2-1/4	3/4	4-1/2	01205	01705	02205	02705
	1/2	3-1/4	3/4	5-1/2	01206	01706	02206	02706
	1/2	4	1	6-1/2	01207	01707	02207	02707
5°	1/16	1/2	3/8	2-5/8	01208	01708	02208	02708
	1/16	3/4	3/8	2-7/8	01209	01709	02209	02709
	1/16	1	3/8	3-1/4	01210	01710	02210	02710
	1/16	1-1/2	3/8	3-1/4	01211	01711	02211	02711
	1/16	1-1/2	3/8	3-1/4	01212	01712	02212	02712
	3/32	1/2	3/8	2-5/8	01213	01713	02213	02713
	3/32	3/4	3/8	2-1/2	01214	01714	02214	02714
	3/32	1	3/8	2-7/8	01215	01715	02215	02715
	3/32	1-1/4	3/8	3-1/8	01216	01716	02216	02716
	3/32	1-1/2	3/8	3-1/4	01217	01717	02217	02717
	3/32	1-3/4	1/2	3-7/8	01218	01718	02218	02718
	3/32	2	1/2	3-7/8	01219	01719	02219	02719
	3/32	2-1/2	1/2	4-1/2	01220	01720	02220	02720
	7/64	1	3/8	2-7/8	01221	01721	02221	02721
	7/64	1-1/2	3/8	3-1/4	01222	01722	02222	02722
	7/64	2	1/2	3-7/8	01223	01723	02223	02723
	1/8	3/4	3/8	2.5	01224	01724	02224	02724
	1/8	1	3/8	2.875	01225	01725	02225	02725
	1/8	1-1/8	3/8	3	01226	01726	02226	02726
	1/8	1-1/4	3/8	3.125	01227	01727	02227	02727
	1/8	1-1/2	3/8	3.25	01228	01728	02228	02728
	1/8	2	1/2	3.875	01229	01729	02229	02729
	1/8	2	3/8	3.875	01230	01730	02230	02730
	1/8	2-1/2	1/2	4.5	01231	01731	02231	02731
	1/8	3	3/4	5.5	01232	01732	02232	02732
	1/8	3	1/2	5.5	01233	01733	02233	02733
	5/32	1	3/8	2.875	01234	01734	02234	02734
	5/32	1-1/2	1/2	3.75	01235	01735	02235	02735
	5/32	2	1/2	3.875	01236	01736	02236	02736
	3/16	3/4	3/8	2.5	01237	01737	02237	02737
	3/16	1-1/4	1/2	3.125	01238	01738	02238	02738
	3/16	1-1/2	1/2	3.125	01239	01739	02239	02739

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

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TAPERED END MILLS



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Tapered End Mills

» HIGH SPEED STEEL - PVD COATED - BALL END AND SQUARE END



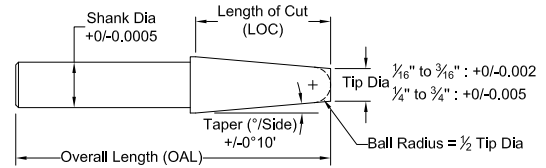
Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°

Length Of Cut (LOC):

1/4 inch - 6 inches (1/4" increments)



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. HSS	EDP No. PVD	EDP No. HSS	EDP No. PVD
5°	3/16	2	1/2	4.125	01240	01740	02240	02740
	3/16	2-1/2	1/2	4.5	01241	01741	02241	02741
	3/16	3	1/2	5	01243	01743	02243	02743
	3/16	3	3/4	5.5	01244	01744	02244	02744
	3/16	3-1/4	3/4	5.5	01245	01745	02245	02745
	3/16	4	3/4	6.5	01246	01746	02246	02746
	3/16	5	1	7.5	01247	01747	02247	02747
	1/4	3/4	3/8	2.5	01248	01748	02248	02748
	1/4	1	1/2	2.875	01249	01749	02249	02749
	1/4	1-1/4	1/2	3.125	01250	01750	02250	02750
	1/4	2-1/4	5/8	4.25	01251	01751	02251	02751
	1/4	3-1/4	3/4	5.5	01252	01752	02252	02752
	1/4	4	3/4	6.5	01253	01753	02253	02753
	3/8	3-1/4	1/2	3.125	01254	01754	02254	02754
	3/8	2-1/4	3/4	4.25	01255	01755	02255	02755
	3/8	3-1/4	3/4	5.5	01256	01756	02256	02756
	3/8	4	1	6.5	01257	01757	02257	02757
	3/8	5	1-1/4	7.5	01258	01758	02258	02758
	1/2	3-1/4	1/2	3.125	01259	01759	02259	02759
	1/2	4-1/4	3/4	4.25	01260	01760	02260	02760
	1/2	3-1/4	1	5.75	01261	01761	02261	02761
	1/2	4	1	6.5	01262	01762	02262	02762
	1/2	5	1-1/4	7.5	01263	01763	02263	02763
	5/8	2-1/4	3/4	4.5	01264	01764	02264	02764
	5/8	5	1-1/4	7.5	01265	01765	02265	02765
	3/4	2-1/4	3/4	4.5	01266	01766	02266	02766
	3/4	4	1-1/4	6.5	01267	01767	02267	02767
	3/4	5	1-1/4	7.5	01268	01768	02268	02768
7°	1/16	1	3/8	2.875	01269	01769	02269	02769
	1/16	1-1/2	1/2	3.25	01270	01770	02270	02770
	0.07	1	3/8	2.75	01271	01771	02271	02771
	3/32	1	3/8	2.875	01272	01772	02272	02772
	3/32	1-1/4	1/2	3.125	01273	01773	02273	02773
	1/8	1-1/2	1/2	3.25	01274	01774	02274	02774
	1/8	3/4	3/8	2.5	01275	01775	02275	02775
	1/8	1	3/8	2.875	01276	01776	02276	02776
	1/8	1-1/4	1/2	3.25	01277	01777	02277	02777
	1/8	2	5/8	4.125	01278	01778	02278	02778
	1/8	3	3/4	5.25	01279	01779	02279	02779
	3/16	1-1/4	1/2	3.125	01280	01780	02280	02780
	3/16	3	3/4	5.25	01281	01781	02281	02781
	1/4	3/4	1/2	2.5	01282	01782	02282	02782
	1/4	2-1/4	3/4	4-1/2	01284	01784	02284	02784
	1/4	3-1/4	1	5-3/4	01285	01785	02285	02785
	1/4	4	1	6-1/2	01286	01786	02286	02786
	5/16	3-1/4	1	5-3/4	01287	01787	02287	02787
	3/8	2-1/4	3/4	4-1/4	01288	01788	02288	02788
	3/8	3-1/4	1	5-3/4	01289	01789	02289	02789
	3/8	4	1-1/4	6-1/2	01290	01790	02290	02790
	1/2	1-1/4	5/8	3-1/4	01291	01791	02291	02791
	1/2	2-1/4	1	4-3/4	01292	01792	02292	02792

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

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TAPERED END MILLS

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Tapered End Mills

» HIGH SPEED STEEL - PVD COATED - BALL END AND SQUARE END



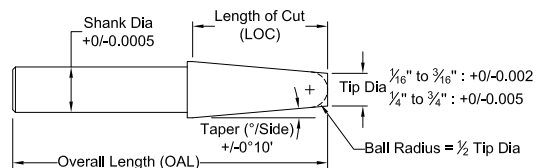
Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°

Length Of Cut (LOC):

1/4 inch - 6 inches (1/4" increments)



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. HSS	EDP No. PVD	EDP No. HSS	EDP No. PVD
7°	1/2	3-1/4	1-1/4	5-3/4	01293	01793	02293	02793
	1/2	4	1-1/4	6-1/2	01294	01794	02294	02794
	5/8	4	1-1/4	6-1/2	01295	01795	02295	02795
	5/8	5	1-1/4	7-1/2	01296	01796	02296	02796
	3/4	3-1/4	1-1/4	5-3/4	01297	01797	02297	02797
	3/4	4	1-1/4	6-1/2	01298	01798	02298	02798
10°	1/16	1/2	3/8	2-3/8	01299	01799	02299	02799
	1/16	3/4	3/8	2-5/8	01300	01800	02300	02800
	1/16	1	1/2	2-7/8	01301	01801	02301	02801
	1/16	1	3/8	2-7/8	01302	01802	02302	02802
	3/32	1/2	3/8	2-1/2	01303	01803	02303	02803
	3/32	3/4	3/8	2-7/8	01304	01804	02304	02804
	3/32	1-1/2	1/2	3-3/8	01305	01805	02305	02805
	1/8	3/4	3/8	2-1/2	01306	01806	02306	02806
	1/8	1-1/4	1/2	3-1/8	01307	01807	02307	02807
	1/8	1-1/2	5/8	3-5/8	01308	01808	02308	02808
	3/16	1-1/4	1/2	3-1/8	01309	01809	02309	02809
	3/16	2-1/4	3/4	4-1/2	01310	01810	02310	02810
	1/4	3/4	1/2	2-1/2	01311	01811	02311	02811
	1/4	1-1/4	1/2	3-1/8	01312	01812	02312	02812
	1/4	2-1/4	3/4	4-1/4	01313	01813	02313	02813
	3/8	1-1/4	5/8	3-1/4	01314	01814	02314	02814
	3/8	2-1/4	1	4-5/8	01315	01815	02315	02815
	3/8	3-1/4	1-1/4	5-3/4	01316	01816	02316	02816
	1/2	1-1/4	3/4	3-3/8	01317	01817	02317	02817
	1/2	2-1/4	1	4-5/8	01318	01818	02318	02818
1/2	3-1/4	1-1/4	5-3/4	01319	01819	02319	02819	
1/2	4	1-1/4	6-3/8	01320	01820	02320	02820	
15°	1/16	3/4	1/2	2-3/4	01321	01821	02321	02821
	3/32	3/4	1/2	2-3/4	01322	01822	02322	02822
	3/32	1	1/2	2-7/8	01323	01823	02323	02823
	3/32	1-1/2	1/2	3-7/16	01324	01824	02324	02824
	1/8	1/2	3/8	2-1/2	01325	01825	02325	02825
	1/8	3/4	1/2	2-1/2	01326	01826	02326	02826
	1/8	1	1/2	3	01327	01827	02327	02827
	1/8	1-1/4	1/2	3-1/8	01328	01828	02328	02828
	3/16	1	1/2	3	01329	01829	02329	02829
	3/16	1-1/4	3/4	3-1/2	01330	01830	02330	02830
	3/16	1-1/4	1/2	3-1/4	01331	01831	02331	02831
	3/16	2	1	4-1/2	01332	01832	02332	02832
	1/4	1	1/2	3	01333	01833	02333	02833
	1/4	1-1/4	3/4	3-1/2	01334	01834	02334	02834
	1/4	1-1/4	1/2	3-1/4	01335	01835	02335	02835
	1/4	1-1/2	3/4	3-3/4	01336	01836	02336	02836
	1/4	2-1/4	1	4-3/4	01337	01837	02337	02837
	1/4	3-1/4	1-1/4	5-3/4	01338	01838	02338	02838
	5/16	1	3/4	3-1/4	01339	01839	02339	02839
	5/16	1-1/2	3/4	3-3/4	01340	01840	02340	02840
3/8	1-1/4	3/4	3-1/2	01341	01841	02341	02841	
3/8	2-1/4	1-1/4	4-3/4	01342	01842	02342	02842	

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

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TAPERED END MILLS

Made in USA

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Tapered End Mills

» HIGH SPEED STEEL - PVD COATED - BALL END AND SQUARE END



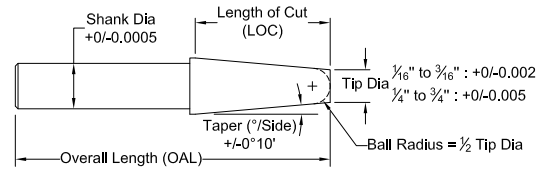
Standard Dimensions:

Degrees Per Side:

1/2°, 1°, 1-1/2°, 2°, 3°, 4°, 5°, 7°, 10°, 15°, 20°, 25°, 30°, 45°

Length Of Cut (LOC):

1/4 inch - 6 inches (1/4" increments)



Degrees Per Side	Tip Dia.	Length of cut	Shank Dia.	Overall Length	Square End		Ball End	
					EDP No. HSS	EDP No. PVD	EDP No. HSS	EDP No. PVD
15°	1/2	1	3/4	3-1/4	01343	01843	02343	02843
	1/2	1-1/4	3/4	3-1/2	01344	01844	02344	02844
	1/2	1-3/4	1	4-1/4	01345	01845	02345	02845
	1/2	2-1/4	1-1/4	4-3/4	01346	01846	02346	02846
	1/2	3-1/4	1-1/2	6	01347	01847	02347	02847
20°	3/32	3/4	1/2	2-3/4	01348	01848	02348	02848
	1/8	1/2	3/8	2-1/2	01349	01849	02349	02849
	1/8	1	1/2	3	01350	01850	02350	02850
	3/16	1	1/2	3	01351	01851	02351	02851
	3/16	1-1/2	3/4	3-3/4	01352	01852	02352	02852
	1/4	1	1/2	3	01353	01853	02353	02853
	1/4	1-1/2	3/4	3-3/4	01354	01854	02354	02854
	5/16	1	3/4	3-1/4	01355	01855	02355	02855
	5/16	1-1/2	3/4	3-3/4	01356	01856	02356	02856
	3/8	1-1/2	3/4	3-3/4	01357	01857	02357	02857
25°	3/8	2	1	4-1/2	01358	01858	02358	02858
	1/2	2-1/4	1-1/4	4-3/4	01359	01859	02359	02859
	3/32	3/4	1/2	3	01360	01860	02360	02860
	1/8	1/2	1/2	2-1/2	01361	01861	02361	02861
	1/8	1	1/2	3	01362	01862	02362	02862
	1/4	1	5/8	3-1/4	01363	01863	02363	02863
	1/4	1-1/2	3/4	3-3/4	01364	01864	02364	02864
	5/16	3/4	5/8	3	01365	01865	02365	02865
	5/16	1	3/4	3-1/4	01366	01866	02366	02866
	5/16	1-1/2	1	4	01367	01867	02367	02867
30°	3/8	3/4	5/8	3	01368	01868	02368	02868
	3/8	1	3/4	3-1/4	01369	01869	02369	02869
	3/8	1-1/2	1	4	01370	01870	02370	02870
	1/2	1-1/4	1	3-3/4	01371	01871	02371	02871
	3/32	3/4	1/2	2-3/4	01372	01872	02372	02872
	1/8	1/2	1/2	2-1/2	01373	01873	02373	02873
	1/8	1	1/2	3	01374	01874	02374	02874
	1/4	1	3/4	3-1/4	01375	01875	02375	02875
	1/4	1-1/2	1	4	01376	01876	02376	02876
	3/8	1-1/4	1	3-3/4	01377	01877	02377	02877
45°	3/8	1-1/2	1	4	01378	01878	02378	02878
	1/2	1-1/4	1	3-3/4	01379	01879	02379	02879
	1/2	1-1/2	1	4	01380	01880	02380	02880
	1/8	5/16	1/2	2-1/2	01381	01881	02381	02881
	1/8	3/4	5/8	3	01382	01882	02382	02882
	1/8	1	1	3-3/4	01383	01883	02383	02883

TAPERED END MILLS

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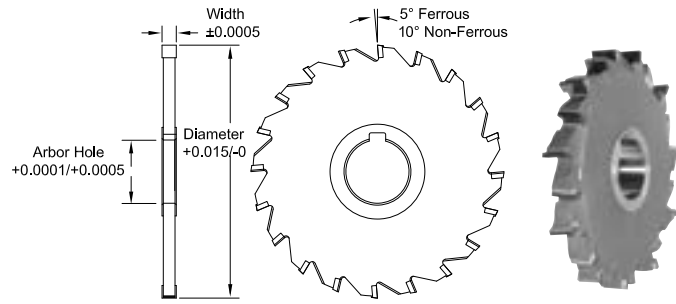
See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN
 Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Side Mills

» CARBIDE TIPPED - STAGGER TOOTH

- » Micrograin Carbide
- » Alternate Axial Rake for Reduced Cutting Force
- » Side Cutting



Ferrous Metals			Cutter Dia.	Width	Arbor Hole	Non-Ferrous Metals		
EDP No.	w/PVD EDP No.	Teeth				Teeth	EDP No.	w/PVD EDP No.
97028	97080	14	3	1/4"	1"	8	96903	96958
97029	97081			5/16"	1"		96904	96959
97030	97082			3/8"	1"		96905	96960
97031	97083			7/16"	1"		96906	96961
97032	97084			1/2"	1"		96907	96962
97036	97088	16	4	1/4"	1"	10	96911	96966
97037	97089			5/16"	1"		96912	96967
97038	97090			3/8"	1"		96913	96968
97039	97091			3/8"	1-1/4"		96914	96969
97040	97092			7/16"	1"		96915	96970
97041	97093			1/2"	1"		96916	96971
97042	97094			1/2"	1-1/4"		96917	96972
97043	97095			9/16"	1"		96918	96973
97044	97096			5/8"	1"		96919	96974
97045	97097			5/8"	1-1/4"		96920	96975
97046	97098	3/4"	1"	96921	96976			
97047	97099	3/4"	1-1/4"	96922	96977			
97051	97108	20	5	1/4"	1"	12	96926	96981
97052	97109			5/16"	1"		96927	96982
97053	97110			3/8"	1"		96928	96983
97054	97111			7/16"	1-1/4"		96929	96984
97055	97112			1/2"	1"		96930	96985
97056	97113			1/2"	1-1/4"		96931	96986
97057	97114			9/16"	1-1/4"		96932	96987
97058	97115			5/8"	1-1/4"		96933	96988
97059	97116			3/4"	1"		96934	96989
97060	97117			3/4"	1-1/4"		96935	96990
97061	97118	1"	1-1/4"	96936	96991			
—	—	—	6	5/16"	1"	14	96940	96995
97065	97122	24		3/8"	1"		96941	96996
—	—	—		7/16"	1"		96942	96997
97066	97123	24		1/2"	1"		96943	96998
97067	97124	—		1/2"	1-1/4"		96944	96999
—	—	—		9/16"	1-1/4"		96945	97000
97068	97125	24		5/8"	1-1/4"		96946	97001
97069	97126			3/4"	1"		96947	97002
97070	97127			3/4"	1-1/4"		96948	97003
97071	97128			1"	1-1/4"		96949	97004
97072	97129	18	7/16"	1-1/4"	96950	97005		
97073	97130	28	3/4"	1-1/4"	96951	97006		
97074	97131	28	3/4"	1-1/2"	96952	97007		
97075	97132	28	1"	1-1/4"	96953	97008		
97076	97133	28	1"	1-1/2"	96954	97009		

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SIDE MILLS



NEED A SPECIAL DIAMETER OR WIDTH?
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See Page 87 For PVD Coating Options

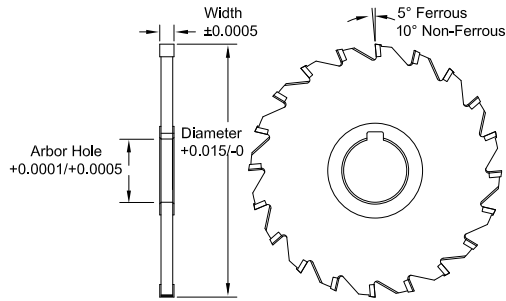
Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Slitting Saws

» CARBIDE TIPPED - STAGGER TOOTH

- » Micrograin Carbide
- » Alternate Axial Rake for Reduced Cutting Force
- » Side Cutting

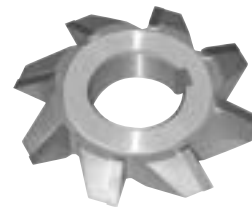


Ferrous Metals			Cutter Dia.	Width	Arbor Hole	Non-Ferrous Metals		
EDP No.	w/PVD EDP No.	Teeth				Teeth	EDP No.	w/PVD EDP No.
97025	97077	14	3	3/32"	1"	8	96900	96955
97026	97078			1/8"			96901	96956
97027	97079			3/16"			96902	96957
97033	97085	16	4	3/32"	1"	10	96908	96963
97034	97086			1/8"			96909	96964
97035	97087			3/16"			96910	96965
97048	97105	20	5	3/32"	1"	12	96923	96978
97049	97106			1/8"			96924	96979
97050	97107			3/16"			96925	96980
97062	97119	24	6	1/8"	1-1/4"	14	96937	96992
97063	97120			3/16"			96938	96993
97064	97121			1/4"			96939	96994

Double Angle Arbor Cutters

» CARBIDE TIPPED - PVD COATED

- » Available with PVD Coating to Extend Tool Life
- » Used for Aggressive Machining of Steel
- » Heat-treated steel body to provide stable backing for the carbide tips

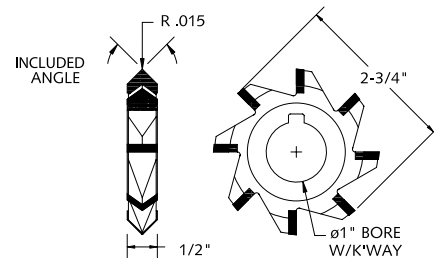


Standard Diameter Tolerance: +.020/-0.0

Tolerance on Angle: +/- 1/4° (15min.)

Note: .010/.020 radius on O.D.

EDP No.	Included Angle	Cutter Dia.	Cutter Width	Arbor Hole	No. of Teeth
30116	60°	2-3/4"	1/2"	1"	8
35116	Same as above – with PVD coating				
30117	90°	2-3/4"	1/2"	1"	8
35117	Same as above – with PVD coating				



SLITTING SAWS, D/A ARBOR
WHITNEYTOOL.COM



NEED A SPECIAL DIAMETER OR WIDTH?
Fill out a quote request on page 86 or at whitneytool.com!

See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

COUNTERBORES



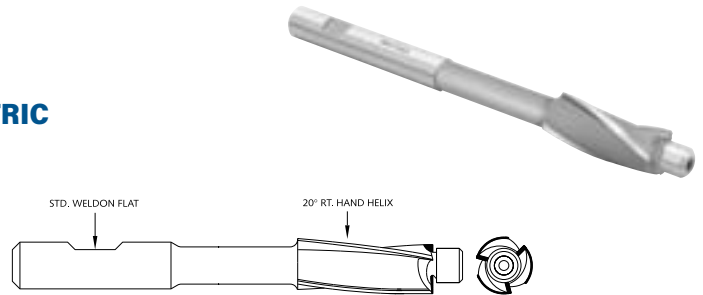
Cap Screw Counterbores

» HIGH SPEED STEEL - M42 COBALT - METRIC

- » High Speed Steel
- » M42 Cobalt
- » Weldon Shank
- » 3 Flute Rugged Free Cutting Design

Diameter Tolerances:

Head Dia. + .002/-0 Pilot
Dia. + 0/-0.0005



H.S.S. EDP No.	Screw Size	Cutter Dia.	Pilot Dia.	Shank Dia.		Overall Length		M42 Cobalt EDP No.
				MM	Inches	MM	Inches	
10563	3mm	6mm	3.4mm	9.525 mm	3/8"	88.9 mm	3.5"	20563
10564	4mm	8mm	4.5mm			127 mm		20564
10565	5mm	10mm	5.5mm			5"	20565	
10566	6mm	11mm	6.6mm				20566	
10567	8mm	15mm	9.0mm	12.7 mm	1/2"	152.4 mm	20567	
10568	10mm	18mm	11.0mm			20568		
10569	12mm	20mm	13.0mm			20569		
10591	14mm	24mm	15.0mm	19.05 mm	3/4"	228.6 mm	9"	20591
10592	16mm	26mm	17.0mm					20592
10593	20mm	33mm	21.0mm	25.4 mm	1"	254 mm	10"	20593
10594	24mm	40mm	25.0mm					20594
SIX PIECE SET								
10574	Six Piece Set of Metric Counterbores; includes 3mm, 4mm, 5mm, 6mm, 8mm and 10mm							20574

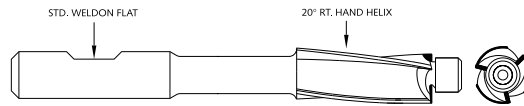
**NEED A SPECIAL
DIAMETER OR PILOT SIZE?**
Fill out a quote request on page 86 or at
whitneytool.com!

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Cap Screw Counterbores

» HIGH SPEED STEEL - M42 COBALT - INCH

- » High Speed Steel
- » M42 Cobalt
- » Weldon Shank
- » 3 Flute Rugged Free Cutting Design



Diameter Tolerances:

Head Dia. + .002/-0 Pilot
Dia. + 0/-0.0005

H.S.S. EDP No.	Screw Size	Cutter Dia.	Pilot Dia.	Shank Dia.	Overall Length	M42 Cobalt EDP No.		
10529	#4	.198"	.1120"	1/4"	3"	20529		
10530			.1250"			20530		
10531	#5	.220"	.1230"	5/16"		20531		
10532			.1380"			20532		
10533	#6	.242"	.1360"	3/8"	3-1/2"	20533		
10534			.1500"			20534		
10535	#8	.290"	.1620"			5"	20535	
10536			.1780"				20536	
10537	#10	.332"	.1880"		1/2"	6"	20537	
10538			.2040"				20538	
10539	1/4"	.406"	.2500"				5"	20539
10540			.2650"					20540
10541	5/16"	.500"	.2810"	3/4"		7"	20541	
10542			.3120"				20542	
10543	3/8"	.593"	.3280"				6"	20543
10544			.3430"					20544
10545	7/16"	.687"	.3750"		7-1/2"	20545		
10546			.3900"			20546		
10547	1/2"	.781"	.4060"		3/4"	7"	20547	
10548			.4370"				20548	
10549	9/16"	.875"	.4530"	7"			20549	
10550			.4680"				20550	
10551	5/8"	1.000"	.5000"	7-1/2"		20551		
10552			.5150"			20552		
10553	3/4"	1.187"	.5310"	7-1/2"		20553		
10554			.5620"			20554		
10555	5/8"	1.000"	.5780"		7"	20555		
10556			.5930"			20556		
10557	3/4"	1.187"	.6250"		7-1/2"	20557		
10558			.6400"			20558		
10559	5/8"	1.000"	.6560"		7"	20559		
10560			.7500"			20560		
10561	3/4"	1.187"	.7650"	7-1/2"	20561			
10562			.7810"		20562			
TEN PIECE SET								
97190	10 Piece Solid Pilot Bolt Size Counterbore Set includes #4, #5, #6, #8, #10, 1/4", 5/16", 3/8", 7/16" and 1/2"					97191		

COUNTERBORES
WHITNEYTOOL.COM



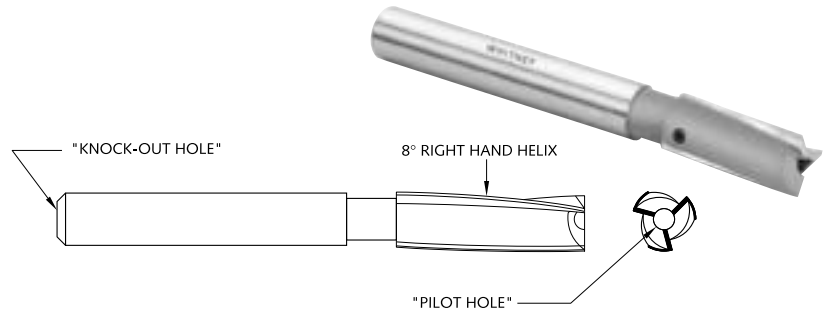
**NEED A SPECIAL
DIAMETER OR PILOT SIZE?**
Fill out a quote request on page 86 or at
whitneytool.com!

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Interchangeable Pilot Counterbores

» HIGH SPEED STEEL

- » Short Series
- » Straight Shank
- » 3/16" to 13/16" are 3 Flute
- » 1-1/4" to 2" are 5 Flute
- » Used for spot facing and counterboring operations. Each tool accepts a wide range of pilots
- » These tools are end cutting only



Standard Diameter Tolerance: +.005/+0.010

H.S.S. EDP No.	Cutter Dia.	Overall Length	Shank Dia.	Pilot Hole Dia.	Shank Length	No. of Flutes				
10379	3/16"	3"	15/64"	3/32"	2-3/8"	3				
10380	7/32"									
10381	1/4"									
10382	9/32"	3-13/16"	17/64"	5/32"	3					
10383	5/16"									
10384	11/32"									
10385	3/8"	4-1/16"	3/8"	5/32"			3			
10386	13/32"									
10387	7/16"									
10388	15/32"	4-5/16"	7/16"	3/16"				3		
10389	1/2"									
10390	17/32"									
10391	9/16"	5-1/8"	12"	1/4"					3	
10392	19/32"									
10393	5/8"									
10394	21/32"	5-3/8"	5/8"	1/4"		3				
10395	11/16"									
10396	23/32"									
10397	3/4"	6-1/8"	3/4"	3/8"	5					
10398	25/32"									
10399	13/16"									
10400	27/32"	6-5/8"	1"	3/8"			5			
10401	7/8"									
10402	29/32"									
10403	15/16"	7-7/8"	1-1/4"	7/16"				5		
10404	31/32"									
10405	1"									
10406	1-1/16"	8-1/8"	1-1/2"	1/2"					5	
10407	1-1/8"									
10408	1-3/16"									
10409	1-1/4"	8-3/8"	1-1/2"	1/2"		5				
10410	1-5/16"									
10411	1-3/8"									
10412	1-7/16"	8-3/8"	1-1/2"	1/2"	5					
10413	1-1/2"									
10414	1-9/16"									
10415	1-5/8"	8-3/8"	1-1/2"	1/2"			5			
10416	1-11/16"									
10417	1-3/4"									
10418	1-13/16"	8-3/8"	1-1/2"	1/2"				5		
10419	1-7/8"									
10420	1-15/16"									
10421	2"	8-3/8"	1-1/2"	1/2"					5	
15 PIECE SET										
97192	HSS Interchangeable Pilot	HSS 15 Piece Interchangeable Pilot Counterbore Set, Includes 1/4", 5/16", 3/8", 7/16" and 1/2" Counterbores. Also includes Pilots: 1/8", 5/32", 3/16" and 1/4" Diameters with 3/32" Shank; 3/16", 7/32", 1/4" and 5/16" Diameters with 5/32" Shank, 1/4" and 5/16" Diameters with 3/16" Shank								

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

WHITNEYTOOL.COM

COUNTERBORES

Made in USA



Pilots for Counterbores

Tolerances:

Shank Dia. + .0000 - .0005

Pilot Dia.

1/8" to 1/4" -.001 to -.002

9/32" to 7/8" -.003 to -.004

15/16" to 1-1/8" -.005 to -.006



Alloy Steel EDP No.	Shank Dia.	Pilot Hole Dia.
00001	3/32"	1/8"
00002		5/32"
00003		3/16"
00004		7/32"
00005		1/4"
00006		9/32"
00007	5/32"	3/16"
00008		7/32"
00009		1/4"
00010		9/32"
00011		5/16"
00013		3/8"
00014	3/16"	1/4"
00016		5/16"
00018		3/8"
00020		7/16"
00022		1/2"
00024		9/16"
00026	1/4"	5/8"
00027		5/16"
00029		3/8"
00031		7/16"
00033		1/2"
00035		9/16"
00037	1/4"	5/8"
00039		1 1/16"
00040		23/32"
00041		3/4"
00042		13/16"
00043		7/8"

Alloy Steel EDP No.	Shank Dia.	Pilot Hole Dia.
00044	5/16"	3/8"
00045		13/32"
00046		7/16"
00048		1/2"
00050		9/16"
00052		5/8"
00054		1 1/16"
00056		3/4"
00057		13/16"
00058		7/8"
00059	15/16"	
00060	3/8"	1"
00061		1 1/2"
00063		9/16"
00065		5/8"
00067		1 1/16"
00069		3/4"
00070		13/16"
00071		7/8"
00072		15/16"
00073		1"
00074	7/16"	1-1/16"
00075		1-1/8"
00076		1 1/2"
00078		5/8"
00080		3/4"
00082		7/8"
00084	12"	1"
00086		1-1/8"
00088		5/8"
00090		3/4"
00093		1"

COUNTERBORE PILOTS

WHITNEYTOOL.COM



Made in USA

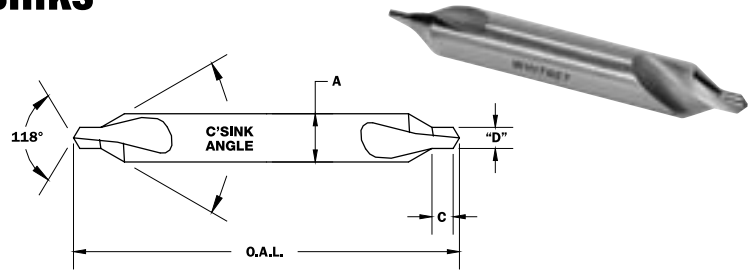
**CAN'T FIND EXACTLY
WHAT YOU NEED?**
Fill out a quote request on page 86 or at
whitneytool.com!

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Combined Drill and Countersinks

» PLAIN TYPE

Combined Drill and Countersinks are used to machine center holes in shafts, and to do other operations where their rigid construction and drill chamfer combination can reduce machining time.



HIGH SPEED STEEL PLAIN TYPE 60°

EDP No.	Size	D Drill Dia	A Body Dia	C Drill Length	Overall Length
40000	00000	0.010	1/8	0.010	1-1/4
40001	0000	0.015		0.015	
40002	000	0.020		0.020	
40003	00	0.025		0.025	
40004	0	0.031		1/32	
40006	1	3/64		3/64	
40007	2	5/64	3/16	5/64	1-7/8
40008	3	7/64	1/4	7/64	2
40009	4	1/8	5/16	1/8	2-1/8
40010	4-1/2	9/64	3/8	9/64	2-1/2
40011	5	3/16	7/16	3/16	2-3/4
40012	6	7/32	1/2	7/32	3
40013	7	1/4	5/8	1/4	3-1/4
40014	8	5/16	3/4	5/16	3-1/2

M42 COBALT PLAIN TYPE 60°

EDP No.	Size	D Drill Dia	A Body Dia	C Drill Length	Overall Length
45000	00000	0.010	1/8	0.010	1-1/4
45001	0000	0.015		0.015	
45002	000	0.020		0.020	
45003	00	0.025		0.025	
45004	0	0.031		1/32	
45005	1	3/64		3/64	
45006	2	5/64	3/16	5/64	1-7/8
45007	3	7/64	1/4	7/64	2
45008	4	1/8	5/16	1/8	2-1/8
45009	4-1/2	9/64	3/8	9/64	2-1/2
45010	5	3/16	7/16	3/16	2-3/4
45011	6	7/32	1/2	7/32	3
45012	7	1/4	5/8	1/4	3-1/4
45013	8	5/16	3/4	5/16	3-1/2

SOLID CARBIDE PLAIN TYPE 60°

EDP No.	Size	D Drill Dia	A Body Dia	C Drill Length	Overall Length
45504	00	0.025	1/8	0.025	1-1/4
45505	0	0.031		1/32	
45506	1	3/64		3/64	
45507	2	5/64	3/16	5/64	1-7/8
45508	3	7/64	1/4	7/64	2
45509	4	1/8	5/16	1/8	2-1/8
45511	5	3/16	7/16	3/16	2-3/4
45512	6	7/32	1/2	7/32	3

HIGH SPEED STEEL PLAIN TYPE 90°

EDP No.	Size	D Drill Dia	A Body Dia	C Drill Length	Overall Length
40030	00000	0.010	1/8	0.010	1-1/4
40031	0000	0.015		0.015	
40032	000	0.020		0.020	
40033	00	0.025		0.025	
40034	0	0.031		1/32	
40035	1	3/64		3/64	
40036	2	5/64	3/16	5/64	1-7/8
40037	3	7/64	1/4	7/64	2
40038	4	1/8	5/16	1/8	2-1/8
40039	4-1/2	9/64	3/8	9/64	2-1/2
40040	5	3/16	7/16	3/16	2-3/4
40041	6	7/32	1/2	7/32	3
40042	7	1/4	5/8	1/4	3-1/4
40043	8	5/16	3/4	5/16	3-1/2

HIGH SPEED STEEL PLAIN TYPE 82°

EDP No.	Size	D Drill Dia	A Body Dia	C Drill Length	Overall Length
40017	00	0.025	1/8	0.025	1-1/4
40018	0	0.031		1/32	
40019	1	3/64		3/64	
40020	2	5/64	3/16	5/64	1-7/8
40021	3	7/64	1/4	7/64	2
40022	4	1/8	5/16	1/8	2-1/8
40023	4-1/2	9/64	3/8	9/64	2-1/2
40024	5	3/16	7/16	3/16	2-3/4
40025	6	7/32	1/2	7/32	3
40026	7	1/4	5/8	1/4	3-1/4
40027	8	5/16	3/4	5/16	3-1/2



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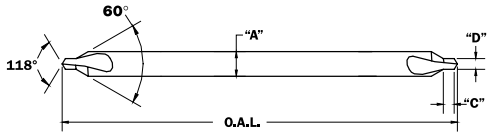


Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Combined Drill and Countersinks

» HIGH SPEED STEEL - LONG SERIES 60°

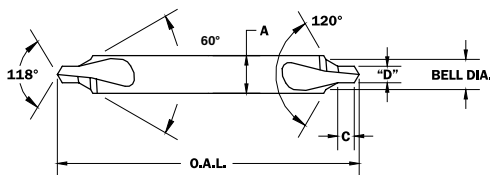
Provide the extra length you need to reach difficult to access components.



EDP No.	Size	D Drill Dia.	A Body Dia.	C Drill Length	Overall Length			
40072	1 x 3	3/64	1/8	3/64	3			
40073	1 x 4				4			
40074	1 x 5				5			
40075	1 x 6				6			
40076	2 x 3	5/64	3/16	5/64	3			
40077	2 x 4				4			
40078	2 x 5				5			
40079	2 x 6				6			
40080	3 x 3	7/64	1/4	7/64	3			
40081	3 x 4				4			
40082	3 x 5				5			
40083	3 x 6				6			
40084	4 x 4	1/8	5/16	1/8	4			
40085	4 x 5				5			
40086	4 x 6				6			
40087	4-1/2 x 4	9/64	3/8	9/64	4			
40088	4-1/2 x 5				5			
40089	4-1/2 x 6				6			
40090	5 x 4				4			
40091	5 x 5	3/16	7/16	3/16	5			
40092	5 x 6				6			
40093	6 x 5	7/32	1/2	7/32	5			
40094	6 x 6				6			
40095	7 x 6				1/4	5/8	1/4	6
40096	8 x 6				5/16	3/4	5/16	

» HIGH SPEED STEEL BELL TYPE 60°

Provide a protected center that preserves the center and protects it from being deformed by rough handling.



EDP No.	Size	D Drill Dia.	A Body Dia.	C Drill Length	Overall Length	Bell Dia.
40062	11	3/64	1/8	3/64	1-1/4	0.100
40063	12	1/16	3/16	1/16	1-7/8	0.150
40064	13	3/32	1/4	3/32	2	0.200
40065	14	7/64	5/16	7/64	2-1/8	0.250
40066	15	5/32	7/16	5/32	2-3/4	0.350
40067	16	3/16	1/2	3/16	3	0.400
40068	17	7/32	5/8	7/32	3-1/4	0.500
40069	18	1/4	3/4	1/4	3-1/2	0.600



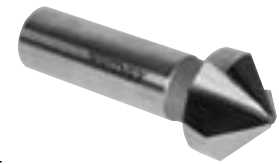
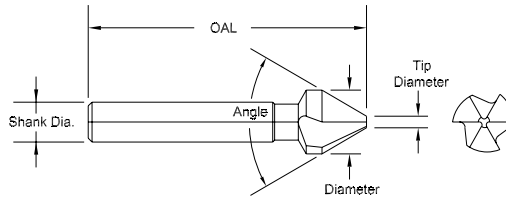
COMBINED DRILL AND COUNTERSINKS
WHITNEYTOOL.COM



High Performance Countersinks

» HIGH PERFORMANCE - M42 COBALT STANDARD STOCK

Used for chamfering, deburring and countersinking. High positive rake is ideal for many material types. Strong three flute construction. Radial relief for smooth cutting action.



Dia.	Tip Dia.	Shank Dia.	OAL	60°		82°		90°	
				M42 Uncoated	M42 with PVD Coating	M42 Uncoated	M42 with PVD Coating	M42 Uncoated	M42 with PVD Coating
				EDP No.	EDP No.	EDP No.	EDP No.	EDP No.	EDP No.
5/32"	0.0500	1/8"	2.2	96515	96700	96552	96737	96589	96774
3/16"		3/16"		96517	96702	96554	96739	96591	96776
7/32"				96519	96704	96556	96741	96593	96778
1/4"	1/16"	1/4"	2.25	96521	96706	96558	96743	96595	96780
5/16"			2.3	96524	96709	96561	96746	96598	96783
3/8"			2.35	96528	96713	96565	96750	96602	96787
7/16"	5/64"	3/8"	2.4	96530	96715	96567	96752	96604	96789
1/2"	3/32"		2.45	96532	96717	96569	96754	96606	96791
9/16"	7/64"		2.5	96535	96720	96572	96757	96609	96794
5/8"		2.5	96537	96722	96574	96759	96611	96796	
3/4"	1/8"	1/2"	2.6	96540	96725	96577	96762	96614	96799
7/8"	9/64"		2.7	96543	96728	96580	96765	96617	96802
1"	3/16"		2.8	96546	96731	96583	96768	96620	96805
1-1/4"	3/16"		3	96551	96736	96588	96773	96625	96810

Dia.	Tip Dia.	Shank Dia.	OAL	100°		120°	
				M42 Uncoated	M42 with PVD Coating	M42 Uncoated	M42 with PVD Coating
				EDP No.	EDP No.	EDP No.	EDP No.
5/32"	0.0500	1/8"	2.2	96626	96811	96663	96848
3/16"		3/16"		96628	96813	96665	96850
7/32"				96630	96815	96667	96852
1/4"	1/16"	1/4"	2.25	96632	96817	96669	96854
5/16"			2.3	96635	96820	96672	96857
3/8"			2.35	96639	96824	96676	96861
7/16"	5/64"	3/8"	2.4	96641	96826	96678	96863
1/2"	3/32"		2.45	96643	96828	96680	96865
9/16"	7/64"		2.5	96646	96831	96683	96868
5/8"		2.5	96648	96833	96685	96870	
3/4"	1/8"	1/2"	2.6	96651	96836	96688	96873
7/8"	9/64"		2.7	96654	96839	96691	96876
1"	3/16"		2.8	96657	96842	96694	96879
1-1/4"	3/16"		3	96662	96847	96699	96884

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COUNTERSINKS



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SPECIAL SIZE?**
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whitneytool.com!

See Page 87 For PVD Coating Options

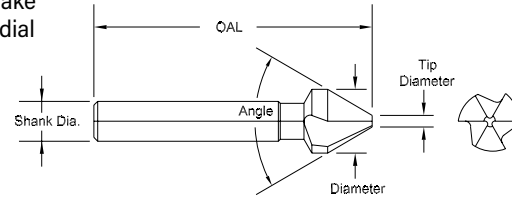
Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Countersinks

» HIGH PERFORMANCE - M42 COBALT - NON STOCK

Used for chamfering, deburring and countersinking. High positive rake is ideal for many material types. Strong three flute construction. Radial relief for smooth cutting action.



Available in 3-4 weeks

Dia.	Tip Dia.	Shank Dia.	OAL	60°		82°		90°	
				M42 Uncoated	M42 w/ PVD Coating	M42 Uncoated	M42 w/ PVD Coating	M42 Uncoated	M42 w/ PVD Coating
				EDP No.	EDP No.	EDP No.	EDP No.	EDP No.	EDP No.
4.00mm	1.27mm	1/8"	2.2	96516	96701	96553	96738	96590	96775
5.00mm	1.27mm	3/16"	2.2	96518	96703	96555	96740	96592	96777
6.00mm	1.27mm	3/16"	2.25	96520	96705	96557	96742	96594	96779
7.00mm	1.27mm	3/16"	2.25	96522	96707	96559	96744	96596	96781
9/32"	1/16"	1/4"	2.25	96523	96708	96560	96745	96597	96782
8.00mm	1.98mm	1/4"	2.3	96525	96710	96562	96747	96599	96784
11/32"	5/64"	1/4"	2.3	96526	96711	96563	96748	96600	96785
9.00mm	1.98mm	1/4"	2.3	96527	96712	96564	96749	96601	96786
10.00mm	1.98mm	1/4"	2.35	96529	96714	96566	96751	96603	96788
12.00mm	2.39mm	3/8"	2.4	96531	96716	96568	96753	96605	96790
13.00mm	2.39mm	3/8"	2.45	96533	96718	96570	96755	96607	96792
14.00mm	2.78mm	3/8"	2.45	96534	96719	96571	96756	96608	96793
15.00mm	2.78mm	3/8"	2.5	96536	96721	96573	96758	96610	96795
16.50mm	2.78mm	3/8"	2.55	96538	96723	96575	96760	96612	96797
19.00mm	3.18mm	3/8"	2.6	96539	96724	96576	96761	96613	96798
20.50mm	3.18mm	1/2"	2.65	96541	96726	96578	96763	96615	96800
13/16"	9/64"	1/2"	2.65	96542	96727	96579	96764	96616	96801
24.00mm	3.57mm	1/2"	2.75	96544	96729	96581	96766	96618	96803
25.00mm	4.76mm	1/2"	2.8	96545	96730	96582	96767	96619	96804
26.00mm	4.76mm	1/2"	2.8	96547	96732	96584	96769	96621	96806
28.00mm	4.76mm	1/2"	2.85	96548	96733	96585	96770	96622	96807
30.00mm	4.76mm	1/2"	2.9	96549	96734	96586	96771	96623	96808
31.00mm	4.76mm	1/2"	2.95	96550	96735	96587	96772	96624	96809

COUNTERSINKS

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See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

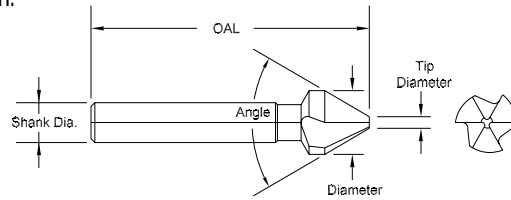
Countersinks

» HIGH PERFORMANCE - M42 COBALT - NON STOCK

Used for chamfering, deburring and countersinking. High positive rake is ideal for many material types. Strong three flute construction. Radial relief for smooth cutting action.



Available in 3-4 weeks



Dia.	Tip Dia.	Shank Dia.	OAL	100°		120°	
				M42 Uncoated	M42 w/ PVD Coating	M42 Uncoated	M42 w/ PVD Coating
				EDP No.	EDP No.	EDP No.	EDP No.
4.00mm	1.27mm	1/8"	2.2	96627	96812	96664	96849
5.00mm	1.27mm	3/16"	2.2	96629	96814	96666	96851
6.00mm	1.27mm	3/16"	2.25	96631	96816	96668	96853
7.00mm	1.27mm	3/16"	2.25	96633	96818	96670	96855
9/32"	1/16"	1/4"	2.25	96634	96819	96671	96856
8.00mm	1.98mm	1/4"	2.3	96636	96821	96673	96858
11/32"	5/64"	1/4"	2.3	96637	96822	96674	96859
9.00mm	1.98mm	1/4"	2.3	96638	96823	96675	96860
10.00mm	1.98mm	1/4"	2.35	96640	96825	96677	96862
12.00mm	2.39mm	3/8"	2.4	96642	96827	96679	96864
13.00mm	2.39mm	3/8"	2.45	96644	96829	96681	96866
14.00mm	2.78mm	3/8"	2.45	96645	96830	96682	96867
15.00mm	2.78mm	3/8"	2.5	96647	96832	96684	96869
16.50mm	2.78mm	3/8"	2.55	96649	96834	96686	96871
19.00mm	3.18mm	3/8"	2.6	96650	96835	96687	96872
20.50mm	3.18mm	1/2"	2.65	96652	96837	96689	96874
13/16"	9/64"	1/2"	2.65	96653	96838	96690	96875
24.00mm	3.57mm	1/2"	2.75	96655	96840	96692	96877
25.00mm	4.76mm	1/2"	2.8	96656	96841	96693	96878
26.00mm	4.76mm	1/2"	2.8	96658	96843	96695	96880
28.00mm	4.76mm	1/2"	2.85	96659	96844	96696	96881
30.00mm	4.76mm	1/2"	2.9	96660	96845	96697	96882
31.00mm	4.76mm	1/2"	2.95	96661	96846	96698	96883

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COUNTERSINKS



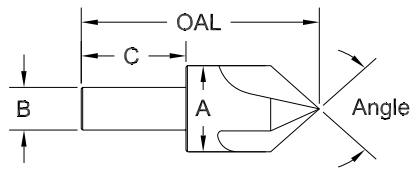
See Page 87 For PVD Coating Options

Standard types: TiN, TiAlN, AlTiN, TiCN. Additional coatings on request: TiAlSiN, ZrN, CrN or AlCrN

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Standard Countersinks

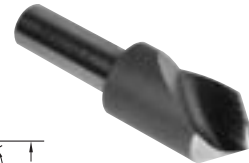
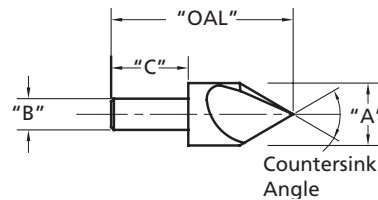
» STANDARD HIGH SPEED STEEL - THREE FLUTE COUNTERSINKS



60° EDP No.	82° EDP No.	90° EDP No.	A Dia.	B Shank Dia.	C Shank Length	OAL
42205	42220	42240	1/4	1/4	N/A	1-1/2
42206	42221	42241	3/8		7/8	1-3/4
42207	42222	42242	1/2	3/8	1	2
42208	42223	42243	5/8			2-1/4
42209	42224	42244	3/4	1/2	1-1/4	2-5/8
42210	42225	42245	1			2-3/4
42211	42226	42246	1-1/4	3/4	1-1/4	3
42212	42227	42247	1-1/2			3-1/4
42213	42228	42248	1-3/4	2	1-1/4	3-1/2
42214	42229	42249	2			3-3/4

» STANDARD HIGH SPEED STEEL - SINGLE FLUTE COUNTERSINKS

High positive rake is ideal for many material types. Strong single flute construction. Radial relief for smooth cutting action.

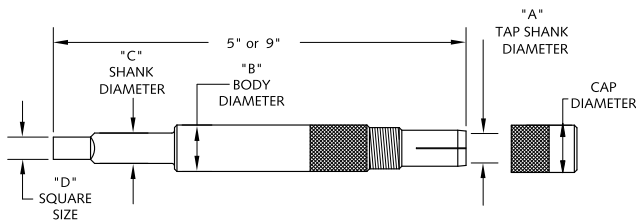


A Body Dia.	B Shank Dia.	C Shank Length	60°		82°		90°	
			EDP No.	Overall Length	EDP No.	Overall Length	EDP No.	Overall Length
1/8	1/8	N/A	42040	1-1/4	42052	1-1/4	42064	1-1/4
3/16	3/16	N/A	42041	1-3/8	42053	1-3/8	42065	1-3/8
1/4	1/4	N/A	42042	1-1/2	42054	1-1/2	42066	1-1/2
3/8		7/8	42043	1-3/4	42055	1-3/4	42067	1-3/4
1/2	3/8	1	42044	2	42056	2	42068	2
5/8			42045	2-1/4	42057	2-1/4	42069	2-1/4
3/4	1/2	1-1/4	42046	2-5/8	42058	2-5/8	42070	2-5/8
1			42047	2-3/4	42059	2-3/4	42071	2-3/4
1-1/4	3/4	1-1/4	42048	3	42060	2-3/4	42072	2-3/4
1-1/2			42049	3-1/4	42061	2-7/8	42073	2-7/8
1-3/4	2	1-1/4	42050	3-1/2	42062	3	42074	3
2			42051	3-3/4	42063	3-1/4	42075	3-1/4

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



Tap Extensions for ANSI Standard Taps



The tap shank enters the hole and is locked into a square in the bottom of the hole. The tap is then secured by hand tightening the compression cap.



5" Tap Extension Set w/Case (9-piece) shown. Also available in 9" Sets.

» HAND/MACHINE TAP EXTENSIONS 5" & 9" LENGTH

- » Made from tool steel
- » Internal square drive for positive tap drive
- » Compression cap for easy tightening, no wrench required
- » A very effective tool at low cost
- » The slim profile lets you fit into places not accessible to conventional tap extensions
- » Eliminates the need for purchasing expensive extended length taps
- » Integral compression collet eliminates the need for bulky collet nuts

EDP No.	Nominal Tap Size	Metric Tap Size* ASME/ANSI	A Dia. of Tap Shank	B Body Dia. Inch	C Shank Dia. Inch	D Square Size Inch	Depth Tap Enters
5" Tap Extensions (CAP Diameter = "B" Body Diameter)							
96089	#0-#6	M1.6-M3.5	0.141	1/4"	0.194	0.152	7/8"
96090	#8	M4	0.168	5/16"			
96091	#10	M4.5-M5	0.194	3/8"			
96092	#12	—	0.220	3/8"	0.255	0.191	1"
96093	1/4"	M6-M6.3	0.255	7/16"			
96094	5/16"	M7 & M8	0.318	1/2"	0.318	0.238	1-1/16"
96095	3/8"	M10	0.381	9/16"	0.381	0.286	1-1/8"
96096	7/16"	—	0.323	1/2"	0.323	0.242	1-1/16"
96097	1/2"	M12	0.367	9/16"	0.367	0.275	1-1/8"
96098	1/16 & 1/8 RS NPT	—	0.312	1/2"	0.312	0.234	1"
9" Tap Extensions (CAP Diameter = "B" Body Diameter)							
96099	#0-#6	M1.6-M3.5	0.141	1/4"	0.194	0.152	7/8"
96100	#8	M4	0.168	5/16"			
96101	#10	M4.5-M5	0.194	3/8"			
96102	#12	—	0.220	3/8"	0.255	0.191	1"
96103	1/4"	M6	0.255	7/16"			
96104	5/16"	M7 & M8	0.318	1/2"	0.318	0.238	1-1/16"
96105	3/8"	M10	0.381	9/16"	0.381	0.286	1-1/8"
96106	7/16"	—	0.323	1/2"	0.323	0.242	1-1/16"
96107	1/2"	M12	0.367	9/16"	0.367	0.275	1-1/8"
96108	1/16 & 1/8 RS NPT	—	0.312	1/2"	0.312	0.234	1"
6" Tap Extensions (For Taps larger than 1/2") (CAP Diameter = 1/8" Greater than "B" Body Diameter)							
96109	9/16"	—	0.429	3/4"	0.429	0.320	1-1/4"
96110	1/8 NPT	—	0.437		0.437	0.328	1"
96111	5/8"	M16	0.480		0.480	0.360	1-1/4"
96112	1 1/16"	—	0.542	0.542	0.406		
96113	1/4 NPT	—	0.562	7/8"	0.562	0.420	1"
96114	3/4"	—	0.590		0.590	0.440	1-3/8"
96115	7/8"	—	0.697	1"	0.697	0.520	1-3/8"
96116	3/8 NPT	—	0.700		0.700	0.530	1-3/16"
96117	1/2 NPT	—	0.687		0.687	0.515	1-1/4"
96118	1"	—	0.800	1-1/8"	0.800	0.600	1-1/2"
96180	1-1/16, 1-1/8	M27	0.896		0.896	0.672	
96181	3/4" NPT	—	0.906	0.906	0.679		
96182	1-3/16, 1-1/4	M30	1.021	1-5/16"	1.021	0.766	
96183	1-5/16, 1-3/8	M33	1.108		1.108	0.831	
96184	1" NPT	—	1.125	1-3/8"	1.125	0.843	
Tap Extension Sets							
96119	5" Tap Extension Set w/Case (9-piece set includes WTC No. 96089 thru 96097)						
96120	9" Tap Extension Set w/Case (9-piece set includes WTC No. 96099 thru 96107)						



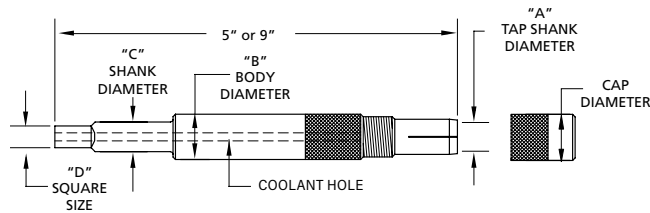
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TAP EXTENSIONS



Made in USA

Tap Extensions for Coolant Thru ANSI Standard Taps



The tap shank enters the hole and is locked into a square in the bottom of the hole. The tap is then secured by hand tightening the compression cap.

» COOLANT THRU HAND - MACHINE TAP EXTENSIONS 5" & 9" LENGTH

- » Made from tool steel
- » Internal square drive for positive tap drive
- » Compression cap for easy tightening, no wrench required
- » A very effective tool at low cost
- » The slim profile lets you fit into places not accessible to conventional tap extensions
- » Eliminates the need for purchasing expensive extended length taps
- » Integral compression collet eliminates the need for bulky collet nuts



EDP No.	Nominal Tap Size	Metric Tap Size ASME/ANSI	A Dia. of Tap Shank	B Body Dia. Inch	C Shank Dia. Inch	D Square Size Inch	Depth Tap Enters	Coolant Hole Dia.
5" Coolant Thru Tap Extensions (CAP Diameter = "B" Body Diameter)								
96150	#0-#6	M1.6-M3.5	0.141	1/4"	0.194	0.152	7/8"	3/32
96151	#8	M4	0.168	5/16"			7/8"	
96152	#10	M4.5-M5	0.194	3/8"			1"	
96153	#12	—	0.220	3/8"			1"	
96154	1/4"	M6-M6.3	0.255	7/16"	0.255	0.191	1"	7/64
96155	5/16"	M7 & M8	0.318	1/2"	0.318	0.238	1-1/16"	5/32
96156	3/8"	M10	0.381	9/16"	0.381	0.286	1-1/8"	
96157	7/16"	—	0.323	1/2"	0.323	0.242	1-1/16"	
96158	1/2"	M12	0.367	9/16"	0.367	0.275	1-1/8"	
96159	1/16 & 1/8 RS NPT	—	0.312	1/2"	0.312	0.234	1"	
9" Coolant Thru Tap Extensions (CAP Diameter = "B" Body Diameter)								
96160	#0-#6	M1.6-M3.5	0.141	1/4"	0.194	0.152	7/8"	7/64
96161	#8	M4	0.168	5/16"			7/8"	
96162	#10	M4.5-M5	0.194	3/8"			1"	
96163	#12	—	0.220	3/8"			1"	
96164	1/4"	M6-M6.3	0.255	7/16"	0.255	0.191	1"	3/32
96165	5/16"	M7 & M8	0.318	1/2"	0.318	0.238	1-1/16"	5/32
96166	3/8"	M10	0.381	9/16"	0.381	0.286	1-1/8"	
96167	7/16"	—	0.323	1/2"	0.323	0.242	1-1/16"	
96168	1/2"	M12	0.367	9/16"	0.367	0.275	1-1/8"	
96169	1/16 & 1/8 RS NPT	—	0.312	1/2"	0.312	0.234	1"	
6" Coolant Thru Tap Extensions (For Taps larger than 1/2") (CAP Diameter = 1/8" Greater than "B" Body Diameter)								
96170	9/16"	—	0.429	3/4"	0.429	0.320	1-1/4"	3/16
96171	1/8 NPT	—	0.437		0.437	0.328	1"	
96172	5/8"	M16	0.480		0.480	0.360	1-1/4"	
96173	11/16"	—	0.542	7/8"	0.542	0.406	1-1/4"	
96174	1/4 NPT	—	0.562		0.562	0.420	1"	
96175	3/4"	—	0.590	1"	0.590	0.440	1-3/8"	1/4
96176	7/8"	—	0.697		0.697	0.520	1-3/8"	
96177	3/8 NPT	—	0.700		0.700	0.530	1-3/16"	
96178	1/2 NPT	—	0.687	1-1/8"	0.687	0.515	1-1/4"	
96179	1"	—	0.800		0.800	0.600		
96190	1-1/16, 1-1/8	M27	0.896	1-5/16"	0.896	0.672	1-1/2"	1/4
96191	3/4" NPT	—	0.906		0.906	0.679		
96192	1-3/16, 1-1/4	M30	1.021	1-3/8"	1.021	0.766		
96193	1-5/16, 1-3/8	M33	1.108		1.108	0.831		
96194	1" NPT	—	1.125	1-3/8"	1.125	0.843		

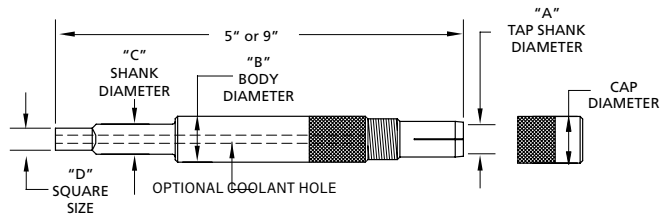


TAP EXTENSIONS
WHITNEYTOOL.COM



Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Tap Extensions for DIN Standard Taps



The tap shank enters the hole and is locked into a square in the bottom of the hole. The tap is then secured by hand tightening the compression cap.



» METRIC DIN HAND - MACHINE TAP EXTENSIONS 5" & 9" LENGTH

- » All popular DIN metric sizes
- » All the most popular sizes available for coolant thru taps
- » Made from tool steel
- » Internal square drive for positive tap drive
- » Compression cap for easy tightening, no wrench required
- » A very effective tool at low cost
- » The slim profile lets you fit into places not accessible to conventional tap extensions
- » Eliminates the need for purchasing expensive extended length taps
- » Integral compression collet eliminates the need for bulky collet nuts

EDP No.	DIN 371 Shanks	DIN 374/376 Shanks	A Dia of Tap Shank		Depth Tap Enteres	B Body Dia. Inch	C Shank Dia.		D Square Size		Coolant Thru	
			MM	Inch			MM	Inch	MM	Inch	EDP No.	Coolant Hole Size
5" (127mm) TAP EXTENSIONS (CAP Diameter = "B" Body Diameter)												
96201	M2-M2.6	M4	2.8mm	0.110	7/8"	1/4"	6mm	0.236	4.9mm	0.193	96240	2.36mm
96202	M3	M4.5-M5	3.5mm	0.137	7/8"	5/16"	6mm	0.236	4.9mm	0.193	96241	2.36mm
96203	M3.5	M5.5	4.0mm	0.157	7/8"	3/8"	6mm	0.236	4.9mm	0.193	96242	2.36mm
96204	M4	M6	4.5mm	0.177	7/8"	3/8"	6mm	0.236	4.9mm	0.193	96243	2.36mm
96205	M4.5-M6	M8	6.0mm	0.236	1"	7/16"	7mm	0.275	5.5mm	0.216	96244	2.36mm
96206	M7	M9-M10	7.0mm	0.275	1"	1/2"	7mm	0.275	5.5mm	0.216	96245	3.96mm
96207	M8	M11	8.0mm	0.315	1-1/8"	1/2"	8mm	0.315	6.2mm	0.244	96246	3.96mm
96208	M9	M12	9.0mm	0.354	1-3/16"	5/8"	9mm	0.354	7mm	0.275	96247	3.96mm
96209	M10	—	10.0mm	0.393	1-1/4"	5/8"	10mm	0.393	8mm	0.315	96248	3.96mm
96210	—	M14	11.0mm	0.433	1-3/8"	3/4"	11mm	0.433	9mm	0.354	96249	3.96mm
96211	M12	M16	12.0mm	0.472	1-3/8"	3/4"	12mm	0.472	9mm	0.354	96250	3.96mm
9" (228.6mm) TAP EXTENSIONS (CAP Diameter = "B" Body Diameter)												
96212	M2-M2.6	M4	2.8mm	0.110	7/8"	1/4"	6mm	0.236	4.9mm	0.193	96251	2.36mm
96213	M3	M4.5-M5	3.5mm	0.137	7/8"	5/16"	6mm	0.236	4.9mm	0.193	96252	2.36mm
96214	M3.5	M5.5	4.0mm	0.157	7/8"	3/8"	6mm	0.236	4.9mm	0.193	96253	2.36mm
96215	M4	M6	4.5mm	0.177	7/8"	3/8"	6mm	0.236	4.9mm	0.193	96254	2.36mm
96216	M4.5-M6	M8	6.0mm	0.236	1"	7/16"	7mm	0.275	5.5mm	0.216	96255	3.96mm
96217	M7	M9-M10	7.0mm	0.275	1"	1/2"	7mm	0.275	5.5mm	0.216	96256	3.96mm
96218	M8	M11	8.0mm	0.315	1-1/8"	1/2"	8mm	0.315	6.2mm	0.244	96257	3.96mm
96219	M9	M12	9.0mm	0.354	1-3/16"	5/8"	9mm	0.354	7mm	0.275	96258	3.96mm
96220	M10	—	10.0mm	0.393	1-1/4"	5/8"	10mm	0.393	8mm	0.315	96259	3.96mm
96221	—	M14	11.0mm	0.433	1-3/8"	3/4"	11mm	0.433	9mm	0.354	96260	3.96mm
96222	M12	M16	12.0mm	0.472	1-3/8"	3/4"	12mm	0.472	9mm	0.354	96261	3.96mm

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.

Tap & Drill Extension Replacement Caps

» REPLACEMENT CAPS FOR TAP AND DRILL EXTENSIONS

EDP No.	Tap Extension Size Used On	EDP Numbers of Tap Extension Used On
96121	#0 - #6 Tap, 5" & 9" Long	96089, 96099, 96150, 96160
96122	# 8 Tap, 5" & 9" Long	96090, 96100, 96151, 96161
96123	#10 Tap, 5" & 9" Long	96091, 96101, 96152, 96162
96124	#12 Tap, 5" & 9" Long	96092, 96102, 96153, 96163
96125	1/4" Tap, 5" & 9" Long	96093, 96103, 96154, 96164
96126	5/16" Tap, 5" & 9" Long	96094, 96104, 96155, 96165
96127	3/8" Tap, 5" & 9" Long	96095, 96105, 96156, 96166
96128	7/16" Tap, 5" & 9" Long	96096, 96106, 96157, 96167
96129	1/2" Tap, 5" & 9" Long	96097, 96107, 96158, 96168
96130	1/16" & 1/8" RS NPT Taps 5" & 9" Long	96098, 96108, 96159, 96169
96131	9/16" Tap, 6" Long	96109, 96170
96132	1/8" NPT, 6" Long	96110, 96171
96133	5/8" Tap, 6" Long	96111, 96172
96134	11/16" Tap, 6" Long	96112, 96173
96135	1/4" NPT, 6" Long	96113, 96174
96136	3/4" Tap, 6" Long	96114, 96175
96137	7/8" Tap, 6" Long	96115, 96176
96138	3/8" NPT, 6" Long	96116, 96177
96139	1/2" NPT, 6" Long	96117, 96178
96140	1" Tap, 6" Long	96118, 96179
96141	1-1/8" (1-1/16, M27) Tap Ext., 6" Long	96180, 96190
96142	3/4" NPT Tap Ext., 6" Long	96181, 96191
96143	1-1/4" (1-3/16, M30) Tap Ext., 6" Long	96182, 96192
96144	1-3/8" (1-5/16, M33) Tap Ext., 6" Long	96183, 96193
96145	1" NPT Tap Ext., 6" Long	96184, 96194
96146	M2-M2.6 Tap Ext., 5" & 9" Long	96201, 96212
96225	M3 Tap Ext., 5" & 9" Long	96202, 96213
96226	M3.5 Tap Ext., 5" & 9" Long	96203, 96214
96227	M4 Tap Ext., 5" & 9" Long	96204, 96215
96228	M4.5 - M6 Tap Ext., 5" & 9" Long	96205, 96216
96229	M7 Tap Ext., 5" & 9" Long	96206, 96217
96230	M8 Tap Ext., 5" & 9" Long	96207, 96218
96231	M9 Tap Ext., 5" & 9" Long	96208, 96219
96232	M10 Tap Ext., 5" & 9" Long	96209, 96220
96233	M14 Tap Ext., 5" & 9" Long	96210, 96221
96234	M12 Tap Ext., 5" & 9" Long	96211, 96222

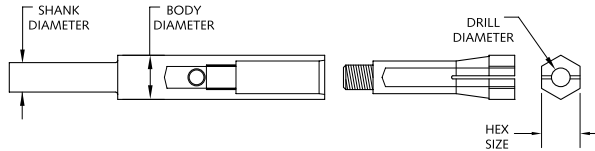
TAP & DRILL EXTENSION REPLACEMENT CAPS

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Made in USA

Drill Extensions



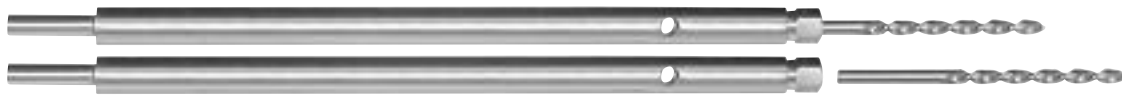
» COLLET TYPE DRILL EXTENSION SYSTEM

- » 4", 9" and 12" extensions use collets
- » Accommodates 1/16" thru 5/16" drills
- » Slim profile gets into places that other collet type extensions cannot accommodate
- » The threaded type collets eliminate the need for bulky collet nuts
- » It's easy to change collets, no special wrenches required
- » A low cost system for difficult to reach spots

» DRILL EXTENSION SYSTEM BODY

» Standard Right Hand

EDP No.	Series	Length	Shank Dia.	Body Dia.
96000	#1	4"	1/4"	5/16"
96001	#2			7/16"
96002	#3		3/8"	9/16"
96400	#4	6"	1/2"	1"
96003	#1	9"	1/4"	5/16"
96004	#2			7/16"
96005	#3		3/8"	9/16"
96401	#4	12"	1/2"	1"



» COLLETS FOR DRILL EXTENSION SYSTEM

EDP No.	Size
SERIES 1 - 1/4" Hex Size	
96364	#58 (0.042)
96365	#56 (0.0465)
96300	1.5mm (0.059)
96006	1/16" (.0625)
96366	#51 (0.067)
96367	#50 (0.07)
96368	#49 (0.073)
96007	5/64" (.0781)
96301	2mm (.0787)
96369	#46 (0.081)
96008	No. 43 (.0890)
96009	3/32" (.0937)
96370	#41 (0.096)
96010	No. 40 (.0980)
96371	#39 (0.0995)
96372	#38 (0.1015)
96302	No. 36 (.1065)
96011	7/64" (.1094)
96303	3mm (.1181)
96373	#31 (0.12)
96012	1/8" (.1250)
96013	No. 30 (.1285)
96304	No. 29 (.1360)
96014	9/64" (.1405)
96374	#27 (0.144)
96305	No. 26 (.1470)
96375	#25 (0.1495)
96015	5/32" (.1562)
96306	4mm (.1575)
96016	No. 21 (.1590)

EDP No.	Size
SERIES 2 - 3/8" Hex Size	
96376	3/32" (0.0938)
96377	1/8" (0.125)
96378	#26 (0.147)
96379	#25 (0.1495)
96380	#18 (0.1695)
96017	11/64" (.1719)
96381	#17 (0.173)
96382	#16 (0.177)
96383	#15 (0.18)
96018	3/16" (.1875)
96019	No. 11 (.191)
96020	No. 10 (.1935)
96307	5mm (.1968)
96021	13/64" (.2031)
96384	5.5mm (0.2165)
96022	7/32" (.2187)
96023	15/64" (.2344)
96308	6mm (.2362)
96385	B (0.238)
96024	1/4" (.2500)

EDP No.	Size
SERIES 3 - 7/16" Hex Size	
96025	1/4" (.2500)
96309	F (.2570)
96026	17/64" (.2656)
96311	7mm (.2756)
96027	9/32" (.2812)
96028	19/64" (.2969)
96029	5/16" (.3125)
96312	8mm (.3150)

EDP No.	Size
SERIES 4 - 13/16" Hex Size	
96402	5/16" (0.3125)
96403	8mm (0.315)
96404	21/64" (0.3281)
96405	8.5mm (0.3346)
96406	11/32" (0.3438)
96407	9mm (0.3543)
96408	23/64" (0.3594)
96409	9.5mm (0.374)
96410	3/8" (0.375)
96411	25/64" (0.3906)
96412	10mm (0.3937)
96413	13/32" (0.4062)
96414	27/64" (0.4219)
96415	11mm (0.4331)
96416	7/16" (0.4375)
96417	29/64" (0.4531)
96418	15/32" (0.4688)
96419	12mm (0.4724)
96420	31/64" (0.4844)
96421	1/2" (0.5)
96422	13mm (0.5118)
96423	33/64" (0.5156)
96424	17/32" (0.5313)
96425	35/64" (0.5469)
96426	14mm (0.5512)
96427	9/16" (0.5625)



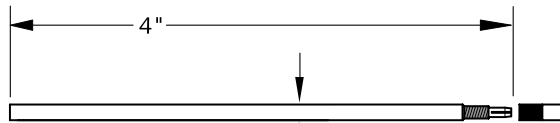
Miniature Drill Extensions

» MINIATURE DRILL EXTENSIONS

- » Slim profile allows you to reach tight places
- » Extension gives you added reach for small size drills
- » Integral compression collet lets you change drills easily



Insert the drill into the end and screw down the compression cap to secure in place.



1/8" DIAMETER SHANK

EDP No.	Drill Size
96030	# 80
96031	# 79
96032	1/64"
96033	# 78
96034	# 77
96350	.5mm
96035	# 76
96036	# 75
96037	# 74
96351	.6mm
96038	# 73
96039	# 72
96040	# 71
96352	.7mm
96041	# 70
96042	# 69
96043	# 68
96044	1/32"
96353	.8mm
96045	# 67
96046	# 66
96047	# 65
96354	.9mm
96048	# 64
96049	# 63
96050	# 62
96051	# 61
96355	1mm
96052	# 60
96053	# 59
96054	# 58
96055	# 57
96056	# 56

3/16" DIAMETER SHANK

EDP No.	Drill Size
96057	# 80
96058	# 79
96059	1/64"
96060	# 78
96061	# 77
96356	.5mm
96062	# 76
96063	# 75
96064	# 74
96357	.6mm
96065	# 73
96066	# 72
96067	# 71
96358	.7mm
96068	# 70
96069	# 69
96070	# 68
96071	1/32"
96359	.8mm
96072	# 67
96073	# 66
96074	# 65
96360	.9mm
96075	# 64
96076	# 63
96077	# 62
96078	# 61
96361	1mm
96079	# 60
96080	# 59
96081	# 58
96082	# 57
96083	# 56
96084	3/64"
96085	# 55
96086	# 54
96362	1.5mm
96087	# 53
96088	1/16"

1/4" DIAMETER SHANK

EDP No.	Drill Size
96313	1mm
96314	# 60
96315	# 59
96316	# 58
96317	# 57
96318	# 56
96319	3/64"
96320	# 55
96321	# 54
96322	1.5mm
96323	# 53
96324	1/16"
96325	# 51
96326	5/64"
96327	# 47
96328	2.0mm
96329	# 43
96330	3/32"
96331	2.5mm

SHANK DIAMETER
1/8", 3/16" OR 1/4"



» MINIATURE DRILL EXTENSION REPLACEMENT CAPS

EDP No.	Drill Extension Size Used On	EDP Numbers of Tap Extension Used On
96147	1/8 Shank Miniature Drill Extension	ALL
96148	3/16 Shank Miniature Drill Extension	ALL
96149	1/4 Shank Miniature Drill Extension	ALL

Ordering Information: Please be sure to specify the quantity, EDP number, diameter, width, and material.



BURR-ZIT™ DEBURRING TOOLS

The Burr-Zit™ tool is the original clothespin type de-burring tool, unequalled performance.

Burr-Zit™ tools can de-burr both sides of a drilled, punched or reamed hole in one operation, even when only one side is accessible.

Prior to the introduction of the Burr-Zit™ tool, production de-burring was limited by tool accessibility. Many applications, such as clevises and back walls, could not be de-burred using conventional tooling. In response to this need, Glen Cogsdill invented, engineered and patented the Burr-Zit™ tool. This tool makes formerly inaccessible areas accessible, and dramatically reduces production costs.

The Burr-Zit™ tools can be designed to meet most special applications. Whitney Tool Company offers extra length tools, taper shanks, non-standard shank sizes as well as shanks with tangs and whistle notches.

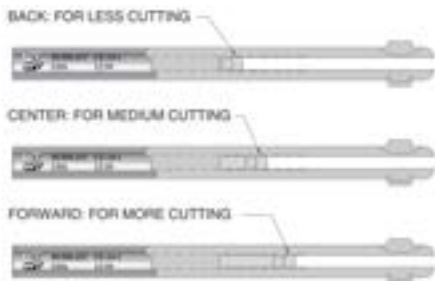
Burr-Zit™ tools are easily resharpened thus assuring long tool life.

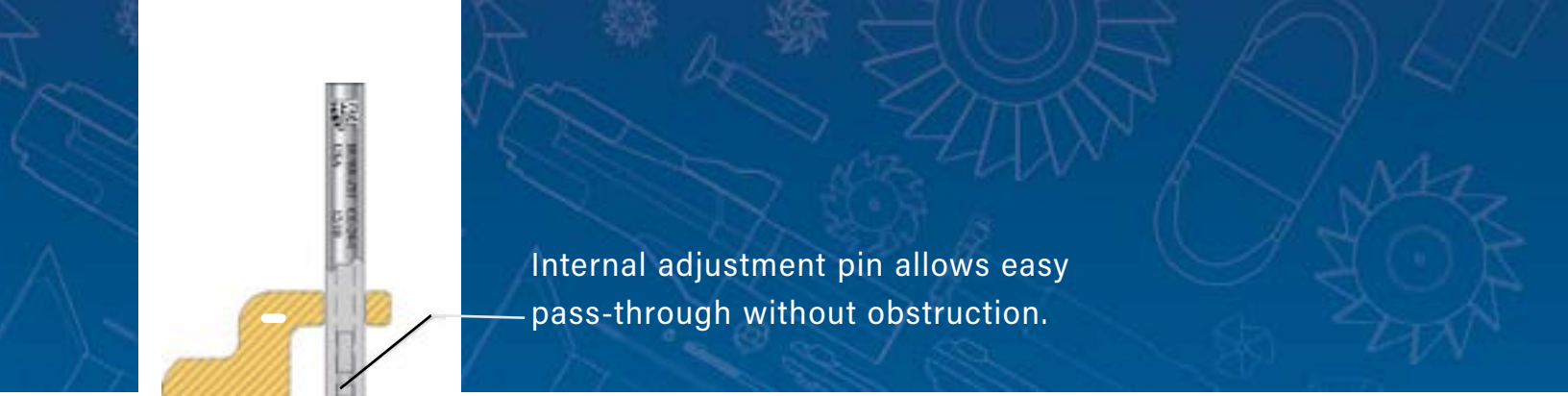
Users can de-burr up to five thousand holes per grind with approximately 6 to 20 grinds per tool depending on size. No other tool can equal the performance and economy of the Burr-Zit™ de-burring tool.

Extraordinarily Efficient:

- Constructed entirely from a single piece of high quality M-2, high speed steel. *(Tools made from higher grade steels such as M-4 and M-42 are available for special applications)*
- The internal tension pin adjustment for CE-20 and larger is available exclusively with the Burr-Zit™ tool
- An internal tension control pin allows for tension adjustment without removing the tool from the machine
- Since the tension pin is an internal feature, it offers no interference to bushings, fixtures, or multiple holes in line
- Integral cutting edges prevent obstruction by dirt or chips

Tension Adjustment

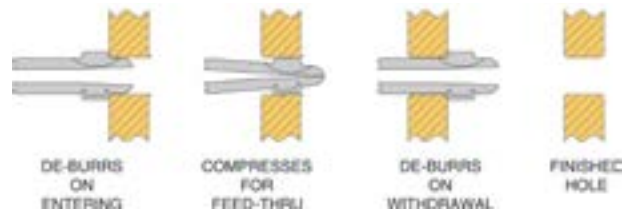




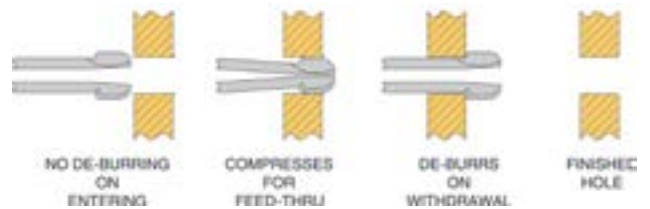
Internal adjustment pin allows easy pass-through without obstruction.

Whitney Standard Burr-Zit™ Tools **System I and II**

System I - de-burrs both **front and back sides** of a hole in one operation, thus insuring a burr free hole.



System II - which has a "bullet nose," is used for applications in which only the **back side** of the hole requires de-burring.



Whitney Standard Burr-Zit™ Tools **System III**

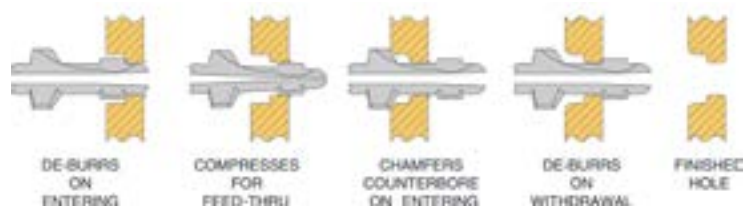
The System III tool is custom built to your individual needs. In order to ensure an accurate tool design to meet your requirements, a part print should be submitted when requesting a quotation.

System III - designed to combine **front countersinking** with **back de-burring** in one operation.



System III on Counterbored Holes -

can also be used to de-burr **both sides** of a counterbored hole.



SPECIAL QUOTE REQUEST ON

PAGE 86

Fill out a quote request on page 86 or at whitneytool.com!



Burr-Zit™ Tools

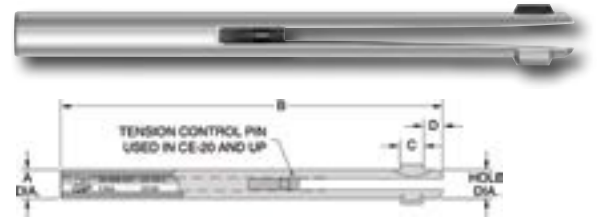
SYSTEM I

For applications in which **front and back side** de-burring are required in one operaton.

Tool Range: Each tool is designed to de-burr up to the next size

Burr-Zit™ Tool Speed & Feed Recommendations:

FERROUS METALS: Speed 40-50 S.F.M. Feed: .007-.010 I.P.R.



Tool Number	Hole Diameter (A)		Overall Length (B)	Lobe Length (C)	Pilot Length (D)	Number Of Lobes	Uncoated	PVD Coated
	Inch						EDP No.	EDP No.
CE-4-1	.078"	0.078	2.5	3/32	1/16	1	80000	85000
CE-5-1	.085"	0.085	2.5	3/32	1/16	1	80004	85004
CE-6-1	3/32"	0.094	4	5/32	3/32	1	80008	85008
CE-7-1	7/64"	0.109	4	5/32	3/32	1	80012	85012
CE-8-1	1/8"	0.125	4	5/32	3/32	1	80016	85016
CE-9-1	9/64"	0.141	4	5/32	1/8	1	80020	85020
CE-10-1	5/32"	0.156	4	3/16	1/8	1	80024	85024
CE-11-1	11/64"	0.172	4	3/16	1/8	1	80028	85028
CE-12-1	3/16"	0.188	4	3/16	1/8	1	80032	85032
CE-13-1	13/64"	0.203	4	3/16	1/8	1	80036	85036
CE-14-1	7/32"	0.219	4	3/16	1/8	2	80040	85040
CE-15-1	15/64"	0.234	4	1/4	3/16	2	80044	85044
CE-16-1	1/4"	0.25	4	1/4	3/16	2	80048	85048
CE-17-1	17/64"	0.266	4	1/4	3/16	2	80052	85052
CE-18-1	9/32"	0.281	4	1/4	3/16	2	80056	85056
CE-19-1	19/64"	0.297	4	1/4	3/16	2	80060	85060
CE-20-1	5/16"	0.313	4	1/4	3/16	2	80064	85064
CE-21-1	21/64"	0.328	4	1/4	3/16	2	80068	85068
CE-22-1	11/32"	0.344	4	1/4	3/16	2	80072	85072
CE-23-1	23/64"	0.359	4.5	1/4	3/16	2	80076	85076
CE-24-1	3/8"	0.375	4.5	1/4	3/16	2	80080	85080
CE-25-1	25/64"	0.391	4.5	5/16	3/16	2	80084	85084
CE-26-1	13/32"	0.406	4.5	5/16	3/16	2	80088	85088
CE-27-1	27/64"	0.422	5	5/16	3/16	2	80092	85092
CE-28-1	7/16"	0.438	5.5	5/16	3/16	2	80096	85096
CE-29-1	29/64"	0.453	5.5	5/16	3/16	2	80100	85100
CE-30-1	15/32"	0.469	5.5	3/8	3/16	2	80104	85104
CE-31-1	31/64"	0.484	5.5	3/8	3/16	2	80108	85108
CE-32-1	1/2"	0.5	6	3/8	3/16	2	80112	85112
CE-33-1	33/64"	0.516	6	3/8	3/16	2	80116	85116
CE-34-1	17/32"	0.531	6	3/8	3/16	2	80120	85120
CE-35-1	35/64"	0.547	6.5	3/8	3/16	2	80124	85124
CE-36-1	9/16"	0.563	7	3/8	3/16	2	80128	85128
CE-37-1	37/64"	0.578	7	3/8	3/16	2	80132	85132
CE-38-1	19/32"	0.594	7	3/8	3/16	2	80136	85136
CE-39-1	39/64"	0.609	7.5	3/8	1/4	2	80140	85140
CE-40-1	5/8"	0.625	7.5	3/8	1/4	2	80144	85144
CE-41-1	41/64"	0.641	7.5	3/8	1/4	2	80148	85148
CE-42-1	21/32"	0.656	7.5	3/8	1/4	2	80152	85152
CE-43-1	43/64"	0.672	7.5	3/8	1/4	2	80156	85156
CE-44-1	11/16"	0.688	8	3/8	1/4	2	80160	85160
CE-45-1	45/64"	0.703	8	3/8	1/4	2	80164	85164
CE-46-1	23/32"	0.719	8	3/8	1/4	2	80168	85168
CE-47-1	47/64"	0.734	8	3/8	1/4	2	80172	85172
CE-48-1	3/4"	0.75	8.5	3/8	1/4	2	80176	85176
CE-49-1	49/64"	0.766	8.5	3/8	1/4	2	80180	85180
CE-50-1	25/32"	0.781	8.5	3/8	1/4	2	80184	85184
CE-51-1	51/64"	0.797	9	3/8	1/4	2	80188	85188
CE-52-1	13/16"	0.813	9	1/2	1/4	2	80192	85192
CE-53-1	53/64"	0.828	9	1/2	3/8	2	80196	85196
CE-54-1	27/32"	0.844	9	1/2	3/8	2	80200	85200
CE-55-1	55/64"	0.859	9	1/2	3/8	2	80204	85204
CE-56-1	7/8"	0.875	9.5	1/2	3/8	2	80208	85208
CE-57-1	57/64"	0.891	9.5	1/2	3/8	2	80212	85212
CE-58-1	29/32"	0.906	9.5	1/2	3/8	2	80216	85216
CE-59-1	59/64"	0.922	9.5	1/2	3/8	2	80220	85220
CE-60-1	15/16"	0.938	9.75	1/2	3/8	2	80224	85224
CE-61-1	61/64"	0.953	9.75	1/2	3/8	2	80228	85228
CE-62-1	31/32"	0.968	9.75	1/2	3/8	2	80232	85232
CE-63-1	63/64"	0.984	9.75	1/2	3/8	2	80236	85236
CE-64-1	1"	1	10	1/2	3/8	2	80240	85240

DEBURRING

WHITNEYTOOL.COM



Made in USA

Burr-Zit™ Tools

SYSTEM I

For applications in which **front and back side** de-burring are required in one operation.

Tool Range: Each tool is designed to de-burr up to the next size

Burr-Zit™ Tool Speed & Feed Recommendations:

NON-FERROUS METALS: Speed 60-90 S.F.M. Feed: .007-.010 I.P.R.



Tool Number	Hole Diameter (A)		Overall Length (B)	Lobe Length (C)	Pilot Length (D)	Number Of Lobes	Uncoated	PVD Coated
	Inch						EDP No.	EDP No.
CE-4-10	.078"	0.078	2.5	3/32	1/16	1	80001	85001
CE-5-10	.085"	0.085	2.5	3/32	1/16	1	80005	85005
CE-6-10	3/32"	0.094	4	5/32	3/32	1	80009	85009
CE-7-10	7/64"	0.109	4	5/32	3/32	1	80013	85013
CE-8-10	1/8"	0.125	4	5/32	3/32	1	80017	85017
CE-9-10	9/64"	0.141	4	5/32	1/8	1	80021	85021
CE-10-10	5/32"	0.156	4	3/16	1/8	1	80025	85025
CE-11-10	11/64"	0.172	4	3/16	1/8	1	80029	85029
CE-12-10	3/16"	0.188	4	3/16	1/8	1	80033	85033
CE-13-10	13/64"	0.203	4	3/16	1/8	1	80037	85037
CE-14-10	7/32"	0.219	4	3/16	1/8	2	80041	85041
CE-15-10	15/64"	0.234	4	1/4	3/16	2	80045	85045
CE-16-10	1/4"	0.25	4	1/4	3/16	2	80049	85049
CE-17-10	17/64"	0.266	4	1/4	3/16	2	80053	85053
CE-18-10	9/32"	0.281	4	1/4	3/16	2	80057	85057
CE-19-10	19/64"	0.297	4	1/4	3/16	2	80061	85061
CE-20-10	5/16"	0.313	4	1/4	3/16	2	80065	85065
CE-21-10	21/64"	0.328	4	1/4	3/16	2	80069	85069
CE-22-10	11/32"	0.344	4	1/4	3/16	2	80073	85073
CE-23-10	23/64"	0.359	4.5	1/4	3/16	2	80077	85077
CE-24-10	3/8"	0.375	4.5	1/4	3/16	2	80081	85081
CE-25-10	25/64"	0.391	4.5	5/16	3/16	2	80085	85085
CE-26-10	13/32"	0.406	4.5	5/16	3/16	2	80089	85089
CE-27-10	27/64"	0.422	5	5/16	3/16	2	80093	85093
CE-28-10	7/16"	0.438	5.5	5/16	3/16	2	80097	85097
CE-29-10	29/64"	0.453	5.5	5/16	3/16	2	80101	85101
CE-30-10	15/32"	0.469	5.5	3/8	3/16	2	80105	85105
CE-31-10	31/64"	0.484	5.5	3/8	3/16	2	80109	85109
CE-32-10	1/2"	0.5	6	3/8	3/16	2	80113	85113
CE-33-10	33/64"	0.516	6	3/8	3/16	2	80117	85117
CE-34-10	17/32"	0.531	6	3/8	3/16	2	80121	85121
CE-35-10	35/64"	0.547	6.5	3/8	3/16	2	80125	85125
CE-36-10	9/16"	0.563	7	3/8	3/16	2	80129	85129
CE-37-10	37/64"	0.578	7	3/8	3/16	2	80133	85133
CE-38-10	19/32"	0.594	7	3/8	3/16	2	80137	85137
CE-39-10	39/64"	0.609	7.5	3/8	1/4	2	80141	85141
CE-40-10	5/8"	0.625	7.5	3/8	1/4	2	80145	85145
CE-41-10	41/64"	0.641	7.5	3/8	1/4	2	80149	85149
CE-42-10	21/32"	0.656	7.5	3/8	1/4	2	80153	85153
CE-43-10	43/64"	0.672	7.5	3/8	1/4	2	80157	85157
CE-44-10	11/16"	0.688	8	3/8	1/4	2	80161	85161
CE-45-10	45/64"	0.703	8	3/8	1/4	2	80165	85165
CE-46-10	23/32"	0.719	8	3/8	1/4	2	80169	85169
CE-47-10	47/64"	0.734	8	3/8	1/4	2	80173	85173
CE-48-10	3/4"	0.75	8.5	3/8	1/4	2	80177	85177
CE-49-10	49/64"	0.766	8.5	3/8	1/4	2	80181	85181
CE-50-10	25/32"	0.781	8.5	3/8	1/4	2	80185	85185
CE-51-10	51/64"	0.797	9	3/8	1/4	2	80189	85189
CE-52-10	13/16"	0.813	9	1/2	1/4	2	80193	85193
CE-53-10	53/64"	0.828	9	1/2	3/8	2	80197	85197
CE-54-10	27/32"	0.844	9	1/2	3/8	2	80201	85201
CE-55-10	55/64"	0.859	9	1/2	3/8	2	80205	85205
CE-56-10	7/8"	0.875	9.5	1/2	3/8	2	80209	85209
CE-57-10	57/64"	0.891	9.5	1/2	3/8	2	80213	85213
CE-58-10	29/32"	0.906	9.5	1/2	3/8	2	80217	85217
CE-59-10	59/64"	0.922	9.5	1/2	3/8	2	80221	85221
CE-60-10	15/16"	0.938	9.75	1/2	3/8	2	80225	85225
CE-61-10	61/64"	0.953	9.75	1/2	3/8	2	80229	85229
CE-62-10	31/32"	0.968	9.75	1/2	3/8	2	80233	85233
CE-63-10	63/64"	0.984	9.75	1/2	3/8	2	80237	85237
CE-64-10	1"	1	10	1/2	3/8	2	80241	85241

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DEBURRING



Standard Burr-Zit™ Tools

SYSTEM II

For applications in which **front and back side** de-burring are required in one operaton.

Tool Range: Each tool is designed to de-burr up to the next size

Burr-Zit™ Tool Speed & Feed Recommendations:

FERROUS METALS: Speed 40-50 S.F.M. Feed: .007-.010 I.P.R.



Tool Number	Hole Diameter (A)		Overall Length (B)	Lobe Length (E)	Number Of Lobes	Uncoated	PVD Coated
	Inch					EDP No.	EDP No.
CE-4-2	.078"	0.078	2.5	5/32	1	80002	85002
CE-5-2	.085"	0.085	2.5	5/32	1	80006	85006
CE-6-2	3/32"	0.094	4	3/16	1	80010	85010
CE-7-2	7/64"	0.109	4	3/16	1	80014	85014
CE-8-2	1/8"	0.125	4	3/16	1	80018	85018
CE-9-2	9/64"	0.141	4	3/16	1	80022	85022
CE-10-2	5/32"	0.156	4	3/16	1	80026	85026
CE-11-2	11/64"	0.172	4	1/4	1	80030	85030
CE-12-2	3/16"	0.188	4	1/4	1	80034	85034
CE-13-2	13/64"	0.203	4	1/4	1	80038	85038
CE-14-2	7/32"	0.219	4	5/16	2	80042	85042
CE-15-2	15/64"	0.234	4	11/32	2	80046	85046
CE-16-2	1/4"	0.25	4	3/8	2	80050	85050
CE-17-2	17/64"	0.266	4	3/8	2	80054	85054
CE-18-2	9/32"	0.281	4	3/8	2	80058	85058
CE-19-2	19/64"	0.297	4	7/16	2	80062	85062
CE-20-2	5/16"	0.313	4	7/16	2	80066	85066
CE-21-2	21/64"	0.328	4	7/16	2	80070	85070
CE-22-2	11/32"	0.344	4	7/16	2	80074	85074
CE-23-2	23/64"	0.359	4.5	1/2	2	80078	85078
CE-24-2	3/8"	0.375	4.5	1/2	2	80082	85082
CE-25-2	25/64"	0.391	4.5	1/2	2	80086	85086
CE-26-2	13/32"	0.406	4.5	1/2	2	80090	85090
CE-27-2	27/64"	0.422	5	1/2	2	80094	85094
CE-28-2	7/16"	0.438	5.5	1/2	2	80098	85098
CE-29-2	29/64"	0.453	5.5	1/2	2	80102	85102
CE-30-2	15/32"	0.469	5.5	1/2	2	80106	85106
CE-31-2	31/64"	0.484	5.5	1/2	2	80110	85110
CE-32-2	1/2"	0.5	6	1/2	2	80114	85114
CE-33-2	33/64"	0.516	6	1/2	2	80118	85118
CE-34-2	17/32"	0.531	6	1/2	2	80122	85122
CE-35-2	35/64"	0.547	6.5	1/2	2	80126	85126
CE-36-2	9/16"	0.563	7	1/2	2	80130	85130
CE-37-2	37/64"	0.578	7	1/2	2	80134	85134
CE-38-2	19/32"	0.594	7	1/2	2	80138	85138
CE-39-2	39/64"	0.609	7.5	5/8	2	80142	85142
CE-40-2	5/8"	0.625	7.5	5/8	2	80146	85146
CE-41-2	41/64"	0.641	7.5	5/8	2	80150	85150
CE-42-2	21/32"	0.656	7.5	5/8	2	80154	85154
CE-43-2	43/64"	0.672	7.5	5/8	2	80158	85158
CE-44-2	11/16"	0.688	8	5/8	2	80162	85162
CE-45-2	45/64"	0.703	8	5/8	2	80166	85166
CE-46-2	23/32"	0.719	8	5/8	2	80170	85170
CE-47-2	47/64"	0.734	8	5/8	2	80174	85174
CE-48-2	3/4"	0.75	8.5	5/8	2	80178	85178
CE-49-2	49/64"	0.766	8.5	5/8	2	80182	85182
CE-50-2	25/32"	0.781	8.5	5/8	2	80186	85186
CE-51-2	51/64"	0.797	9	5/8	2	80190	85190
CE-52-2	13/16"	0.813	9	5/8	2	80194	85194
CE-53-2	53/64"	0.828	9	5/8	2	80198	85198
CE-54-2	27/32"	0.844	9	5/8	2	80202	85202
CE-55-2	55/64"	0.859	9	5/8	2	80206	85206
CE-56-2	7/8"	0.875	9.5	3/4	2	80210	85210
CE-57-2	57/64"	0.891	9.5	3/4	2	80214	85214
CE-58-2	29/32"	0.906	9.5	3/4	2	80218	85218
CE-59-2	59/64"	0.922	9.5	3/4	2	80222	85222
CE-60-2	15/16"	0.938	9.75	3/4	2	80226	85226
CE-61-2	61/64"	0.953	9.75	3/4	2	80230	85230
CE-62-2	31/32"	0.968	9.75	3/4	2	80234	85234
CE-63-2	63/64"	0.984	9.75	3/4	2	80238	85238
CE-64-2	1"	1	10	3/4	2	80242	85242

DEBURRING

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Standard Burr-Zit™ Tools

SYSTEM II

For applications in which **front and back side** de-burring are required in one operation.

Tool Range: Each tool is designed to de-burr up to the next size

Burr-Zit™ Tool Speed & Feed Recommendations:

NON-FERROUS METALS: Speed 60-90 S.F.M. Feed: .007-.010 I.P.R.



Tool Number	Hole Diameter (A)		Overall Length (B)	Lobe Length (E)	Number Of Lobes	Uncoated	PVD Coated
	Inch	Inch				EDP No.	EDP No.
CE-4-20	.078"	0.078	2.5	5/32	1	80003	85003
CE-5-20	.085"	0.085	2.5	5/32	1	80007	85007
CE-6-20	3/32"	0.094	4	3/16	1	80011	85011
CE-7-20	7/64"	0.109	4	3/16	1	80015	85015
CE-8-20	1/8"	0.125	4	3/16	1	80019	85019
CE-9-20	9/64"	0.141	4	3/16	1	80023	85023
CE-10-20	5/32"	0.156	4	3/16	1	80027	85027
CE-11-20	11/64"	0.172	4	1/4	1	80031	85031
CE-12-20	3/16"	0.188	4	1/4	1	80035	85035
CE-13-20	13/64"	0.203	4	1/4	1	80039	85039
CE-14-20	7/32"	0.219	4	5/16	2	80043	85043
CE-15-20	15/64"	0.234	4	11/32	2	80047	85047
CE-16-20	1/4"	0.25	4	3/8	2	80051	85051
CE-17-20	17/64"	0.266	4	3/8	2	80055	85055
CE-18-20	9/32"	0.281	4	3/8	2	80059	85059
CE-19-20	19/64"	0.297	4	7/16	2	80063	85063
CE-20-20	5/16"	0.313	4	7/16	2	80067	85067
CE-21-20	21/64"	0.328	4	7/16	2	80071	85071
CE-22-20	11/32"	0.344	4	7/16	2	80075	85075
CE-23-20	23/64"	0.359	4.5	1/2	2	80079	85079
CE-24-20	3/8"	0.375	4.5	1/2	2	80083	85083
CE-25-20	25/64"	0.391	4.5	1/2	2	80087	85087
CE-26-20	13/32"	0.406	4.5	1/2	2	80091	85091
CE-27-20	27/64"	0.422	5	1/2	2	80095	85095
CE-28-20	7/16"	0.438	5.5	1/2	2	80099	85099
CE-29-20	29/64"	0.453	5.5	1/2	2	80103	85103
CE-30-20	15/32"	0.469	5.5	1/2	2	80107	85107
CE-31-20	31/64"	0.484	5.5	1/2	2	80111	85111
CE-32-20	1/2"	0.5	6	1/2	2	80115	85115
CE-33-20	33/64"	0.516	6	1/2	2	80119	85119
CE-34-20	17/32"	0.531	6	1/2	2	80123	85123
CE-35-20	35/64"	0.547	6.5	1/2	2	80127	85127
CE-36-20	9/16"	0.563	7	1/2	2	80131	85131
CE-37-20	37/64"	0.578	7	1/2	2	80135	85135
CE-38-20	19/32"	0.594	7	1/2	2	80139	85139
CE-39-20	39/64"	0.609	7.5	5/8	2	80143	85143
CE-40-20	5/8"	0.625	7.5	5/8	2	80147	85147
CE-41-20	41/64"	0.641	7.5	5/8	2	80151	85151
CE-42-20	21/32"	0.656	7.5	5/8	2	80155	85155
CE-43-20	43/64"	0.672	7.5	5/8	2	80159	85159
CE-44-20	11/16"	0.688	8	5/8	2	80163	85163
CE-45-20	45/64"	0.703	8	5/8	2	80167	85167
CE-46-20	23/32"	0.719	8	5/8	2	80171	85171
CE-47-20	47/64"	0.734	8	5/8	2	80175	85175
CE-48-20	3/4"	0.75	8.5	5/8	2	80179	85179
CE-49-20	49/64"	0.766	8.5	5/8	2	80183	85183
CE-50-20	25/32"	0.781	8.5	5/8	2	80187	85187
CE-51-20	51/64"	0.797	9	5/8	2	80191	85191
CE-52-20	13/16"	0.813	9	5/8	2	80195	85195
CE-53-20	53/64"	0.828	9	5/8	2	80199	85199
CE-54-20	27/32"	0.844	9	5/8	2	80203	85203
CE-55-20	55/64"	0.859	9	5/8	2	80207	85207
CE-56-20	7/8"	0.875	9.5	3/4	2	80211	85211
CE-57-20	57/64"	0.891	9.5	3/4	2	80215	85215
CE-58-20	29/32"	0.906	9.5	3/4	2	80219	85219
CE-59-20	59/64"	0.922	9.5	3/4	2	80223	85223
CE-60-20	15/16"	0.938	9.75	3/4	2	80227	85227
CE-61-20	61/64"	0.953	9.75	3/4	2	80231	85231
CE-62-20	31/32"	0.968	9.75	3/4	2	80235	85235
CE-63-20	63/64"	0.984	9.75	3/4	2	80239	85239
CE-64-20	1"	1	10	3/4	2	80243	85243

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DEBURRING

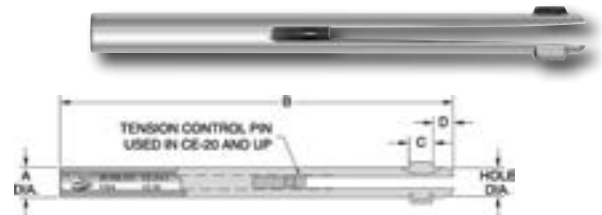
Made in USA

Burr-Zit™ Tools - Metric

SYSTEM I

For applications in which **front and back side** de-burring are required in one operation.

Tool Range: Each tool is designed to de-burr up to the next size



	Tool Number	Hole Diameter (A)	Overall Length (B)	Lobe Length (C)	Pilot Length (D)	Number Of Lobes	Uncoated EDP No.	PVD Coated EDP No.
Ferrous Metals: Speed 40-50 S.F.M. Feed: .007-.010 I.P.R.	CE-2.0mm-1	2.0mm	63mm	2.3mm	1.5mm	1	80250	85250
	CE-2.5mm-1	2.5mm	102mm	4.0mm	2.4mm	1	80254	85254
	CE-3.0mm-1	3.0mm	102mm	4.0mm	2.4mm	1	80258	85258
	CE-3.5mm-1	3.5mm	102mm	4.0mm	3.0mm	1	80262	85262
	CE-4.0mm-1	4.0mm	102mm	4.6mm	3.0mm	1	80266	85266
	CE-4.5mm-1	4.5mm	102mm	4.6mm	3.0mm	1	80270	85270
	CE-5.0mm-1	5.0mm	102mm	4.6mm	3.0mm	1	80274	85274
	CE-5.5mm-1	5.5mm	102mm	4.6mm	3.0mm	2	Z80278	85278
	CE-6.0mm-1	6.0mm	102mm	6.4mm	4.6mm	2	80282	85282
	CE-6.5mm-1	6.5mm	102mm	6.4mm	4.6mm	2	80286	85286
	CE-7.0mm-1	7.0mm	102mm	6.4mm	4.6mm	2	80290	85290
	CE-7.5mm-1	7.5mm	102mm	6.4mm	4.6mm	2	80294	85294
	CE-8.0mm-1	8.0mm	102mm	6.4mm	4.6mm	2	80298	85298
	CE-8.5mm-1	8.5mm	102mm	6.4mm	4.6mm	2	80302	85302
	CE-9.0mm-1	9.0mm	114mm	6.4mm	4.6mm	2	80306	85306
	CE-9.5mm-1	9.5mm	114mm	6.4mm	4.6mm	2	80310	85310
	CE-10.0mm-1	10.0mm	114mm	7.9mm	4.6mm	2	80314	85314
	CE-10.5mm-1	10.5mm	127mm	7.9mm	4.6mm	2	80318	85318
CE-11.0mm-1	11.0mm	140mm	7.9mm	4.6mm	2	80322	85322	
CE-11.5mm-1	11.5mm	140mm	7.9mm	4.6mm	2	80326	85326	
CE-12.0mm-1	12.0mm	140mm	9.4mm	4.6mm	2	80330	85330	
CE-12.5mm-1	12.5mm	152mm	9.4mm	4.6mm	2	80334	85334	
CE-13.0mm-1	13.0mm	152mm	9.4mm	4.6mm	2	80338	85338	
CE-13.5mm-1	13.5mm	152mm	9.4mm	4.6mm	2	80342	85342	
CE-14.0mm-1	14.0mm	152mm	9.4mm	4.6mm	2	80346	85346	
Non-Ferrous Metals: Speed 80-90 S.F.M. Feed: .007-.010 I.P.R.	CE-2.0mm-10	2.0mm	63mm	2.3mm	1.5mm	1	80251	85251
	CE-2.5mm-10	2.5mm	102mm	4.0mm	2.4mm	1	80255	85255
	CE-3.0mm-10	3.0mm	102mm	4.0mm	2.4mm	1	80259	85259
	CE-3.5mm-10	3.5mm	102mm	4.0mm	3.0mm	1	80263	85263
	CE-4.0mm-10	4.0mm	102mm	4.6mm	3.0mm	1	80267	85267
	CE-4.5mm-10	4.5mm	102mm	4.6mm	3.0mm	1	80271	85271
	CE-5.0mm-10	5.0mm	102mm	4.6mm	3.0mm	1	80275	85275
	CE-5.5mm-10	5.5mm	102mm	4.6mm	3.0mm	2	80279	85279
	CE-6.0mm-10	6.0mm	102mm	6.4mm	4.6mm	2	80283	85283
	CE-6.5mm-10	6.5mm	102mm	6.4mm	4.6mm	2	80287	85287
	CE-7.0mm-10	7.0mm	102mm	6.4mm	4.6mm	2	80291	85291
	CE-7.5mm-10	7.5mm	102mm	6.4mm	4.6mm	2	80295	85295
	CE-8.0mm-10	8.0mm	102mm	6.4mm	4.6mm	2	80299	85299
	CE-8.5mm-10	8.5mm	102mm	6.4mm	4.6mm	2	80303	85303
	CE-9.0mm-10	9.0mm	114mm	6.4mm	4.6mm	2	80307	85307
	CE-9.5mm-10	9.5mm	114mm	6.4mm	4.6mm	2	80311	85311
	CE-10.0mm-10	10.0mm	114mm	7.9mm	4.6mm	2	80315	85315
	CE-10.5mm-10	10.5mm	127mm	7.9mm	4.6mm	2	80319	85319
CE-11.0mm-10	11.0mm	140mm	7.9mm	4.6mm	2	80323	85323	
CE-11.5mm-10	11.5mm	140mm	7.9mm	4.6mm	2	80327	85327	
CE-12.0mm-10	12.0mm	140mm	9.4mm	4.6mm	2	80331	85331	
CE-12.5mm-10	12.5mm	152mm	9.4mm	4.6mm	2	80335	85335	
CE-13.0mm-10	13.0mm	152mm	9.4mm	4.6mm	2	80339	85339	
CE-13.5mm-10	13.5mm	152mm	9.4mm	4.6mm	2	80343	85343	
CE-14.0mm-10	14.0mm	152mm	9.4mm	4.6mm	2	80347	85347	

DEBURRING

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Burr-Zit™ Tools - Metric

SYSTEM II

For applications in which **front and back side** de-burring are required in one operation.

Tool Range: Each tool is designed to de-burr up to the next size



	Tool Number	Hole Diameter (A)	Overall Length (B)	Lobe Length (C)	Number Of Lobes	Uncoated EDP No.	PVD Coated EDP No.
Ferrous Metals: Speed 40-50 S.F.M. Feed: .007-.010 I.P.R.	CE-2.0mm-2	2.0mm	63mm	4.0mm	1	80252	85252
	CE-2.5mm-2	2.5mm	102mm	4.8mm	1	80256	85256
	CE-3.0mm-2	3.0mm	102mm	4.8mm	1	80260	85260
	CE-3.5mm-2	3.5mm	102mm	4.8mm	1	80264	85264
	CE-4.0mm-2	4.0mm	102mm	4.8mm	1	80268	85268
	CE-4.5mm-2	4.5mm	102mm	6.3mm	1	80272	85272
	CE-5.0mm-2	5.0mm	102mm	6.3mm	1	80276	85276
	CE-5.5mm-2	5.5mm	102mm	7.8mm	2	80280	85280
	CE-6.0mm-2	6.0mm	102mm	8.6mm	2	80284	85284
	CE-6.5mm-2	6.5mm	102mm	9.3mm	2	80288	85288
	CE-7.0mm-2	7.0mm	102mm	9.3mm	2	80292	85292
	CE-7.5mm-2	7.5mm	102mm	10.9mm	2	80296	85296
	CE-8.0mm-2	8.0mm	102mm	10.9mm	2	80300	85300
	CE-8.5mm-2	8.5mm	102mm	10.9mm	2	80304	85304
	CE-9.0mm-2	9.0mm	114mm	12.7mm	2	80308	85308
	CE-9.5mm-2	9.5mm	114mm	12.7mm	2	80312	85312
	CE-10.0mm-2	10.0mm	114mm	12.7mm	2	80316	85316
	CE-10.5mm-2	10.5mm	127mm	12.7mm	2	80320	85320
	CE-11.0mm-2	11.0mm	140mm	12.7mm	2	80324	85324
	CE-11.5mm-2	11.5mm	140mm	12.7mm	2	80328	85328
CE-12.0mm-2	12.0mm	140mm	12.7mm	2	80332	85332	
CE-12.5mm-2	12.5mm	152mm	12.7mm	2	80336	85336	
CE-13.0mm-2	13.0mm	152mm	12.7mm	2	80340	85340	
CE-13.5mm-2	13.5mm	152mm	12.7mm	2	80344	85344	
CE-14.0mm-2	14.0mm	152mm	12.7mm	2	80348	85348	
Non-Ferrous Metals: Speed 80-90 S.F.M. Feed: .007-.010 I.P.R.	CE-2.0mm-20	2.0mm	63mm	4.0mm	1	80253	85253
	CE-2.5mm-20	2.5mm	102mm	4.8mm	1	80257	85257
	CE-3.0mm-20	3.0mm	102mm	4.8mm	1	80261	85261
	CE-3.5mm-20	3.5mm	102mm	4.8mm	1	80265	85265
	CE-4.0mm-20	4.0mm	102mm	4.8mm	1	80269	85269
	CE-4.5mm-20	4.5mm	102mm	6.3mm	1	80273	85273
	CE-5.0mm-20	5.0mm	102mm	6.3mm	1	80277	85277
	CE-5.5mm-20	5.5mm	102mm	7.8mm	2	80281	85281
	CE-6.0mm-20	6.0mm	102mm	8.6mm	2	80285	85285
	CE-6.5mm-20	6.5mm	102mm	9.3mm	2	80289	85289
	CE-7.0mm-20	7.0mm	102mm	9.3mm	2	80293	85293
	CE-7.5mm-20	7.5mm	102mm	10.9mm	2	80297	85297
	CE-8.0mm-20	8.0mm	102mm	10.9mm	2	80301	85301
	CE-8.5mm-20	8.5mm	102mm	10.9mm	2	80305	85305
	CE-9.0mm-20	9.0mm	114mm	12.7mm	2	80309	85309
	CE-9.5mm-20	9.5mm	114mm	12.7mm	2	80313	85313
	CE-10.0mm-20	10.0mm	114mm	12.7mm	2	80317	85317
	CE-10.5mm-20	10.5mm	127mm	12.7mm	2	80321	85321
	CE-11.0mm-20	11.0mm	140mm	12.7mm	2	80325	85325
	CE-11.5mm-20	11.5mm	140mm	12.7mm	2	80329	85329
CE-12.0mm-20	12.0mm	140mm	12.7mm	2	80333	85333	
CE-12.5mm-20	12.5mm	152mm	12.7mm	2	80337	85337	
CE-13.0mm-20	13.0mm	152mm	12.7mm	2	80341	85341	
CE-13.5mm-20	13.5mm	152mm	12.7mm	2	80345	85345	
CE-14.0mm-20	14.0mm	152mm	12.7mm	2	80349	85349	

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DEBURRING



SIX AND TEN PIECE TOOLKITS

DEBURRING TOOLKITS



ToolKit No. 80350

The 6 piece kit includes the following sizes:
1/8" • 5/32" • 3/16" • 1/4" • 5/16" • 3/8"



ToolKit No. 80351

The 10 piece kit includes the following sizes:
1/8" • 5/32" • 3/16" • 7/32" • 1/4"
9/32" • 5/16" • 3/8" • 7/16" • 1/2"

Six and Ten Piece ToolKits are designed for users who need versatility, our 6 and 10 piece ToolKits offer tools to de-burr holes of popular sizes in one handy kit. Perfect for small shops and tool rooms of larger companies. ToolKits are housed in a sturdy metal foldout case. These kits may be ordered in the four coatings we offer (see below).

Handi-Burr™ Tools

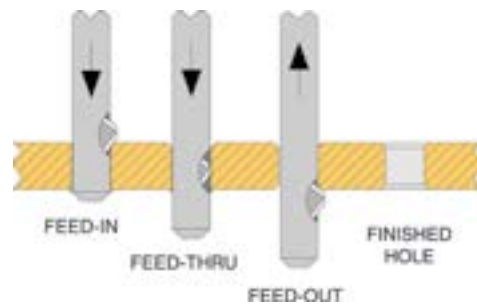


Handi-Burr™ tools are recommended for hand held or medium production deburring operations.

The tool deburrs automatically — front and back side or back side only — in a single pass.

- A sturdy tool with only a few parts, the Handi-Burr™ is a rugged reliable tool
- Can be used in either a fixed spindle machine or a portable power hand tool
- The amount of de-burring and chamfer can be controlled by adjusting the setscrew in the shank
- Selected settings are based on the hardness of the material and the speed and feed used

Typical Operation



Blade Type

DA (double action)- for deburring both sides of holes.

BA (back action)- for back of hole only.

Tungsten Carbide blades available for sizes 1/8 through #110.



DA Double Cutting



BA Back Cutting

*DA blade supplied as standard.
If BA blade is desired, please specify when ordering.*

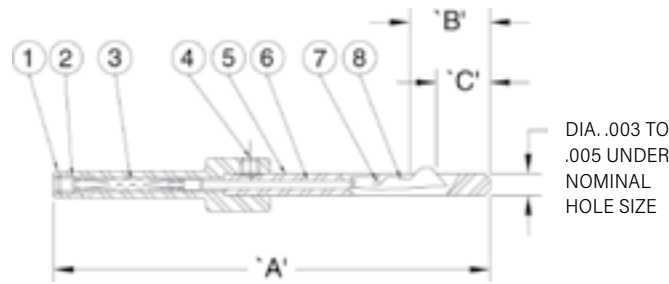
Removing or Replacing Blades

For blade replacement or sharpening, simply remove blade by sufficiently loosening the setscrew in the shank end. The blade has an open-end slot design. Slip open end of slot over pivot pin and adjust setscrew to desired depth of cut. Do not compress spring to its solid condition. The blade will not retract without spring cushion.

Handi-Burr™ Tools

STYLE HA -

Pilot Length May Be Shortened To Suit



Adaptor Assembly

1. Adaptor
2. Chamfer Adjustment Screw
3. Tension Spring Assembly
4. Arbor Set Screw

Arbor Assembly

5. Arbor
6. Plunger
7. Pivot Pin
8. Blade

Size		Complete Tool EDP No.	Arbor Only EDP No.	Arbor Assembly EDP No.	Double Acting Blade		A Inch	B Inch	C Inch
Dia.	Dec. Equiv.				Size	EDP No.			
2.0mm	0.078	89000	89112	89127	3/32	89142	3.38	.45	.28
1/32	0.093	89001	89113	89128					
2.5mm	0.098	89002	89114	89129					
7/64	0.109	89003	89115	89130	1/8	89172			.25
3.0mm	0.118	89004	89116	89131					
1/8	0.125	89005	89117	89132					
3.5mm	0.137	89006	89118	89133	5/32	89143	.44		
9/64	0.14	89007	89119	89134					
5/32	0.156	89008	89120	89135					
4.0mm	0.157	89009	89121	89136	3/16	89144	4.25	.72	
11/64	0.171	89015	89122	89137					
4.5mm	0.177	89016	89123	89138					
3/16	0.187	89017	89124	89139	3/16	89145	4.25	.72	
5.0mm	0.196	89018	89125	89140					
13/64	0.203	89019	89126	89141					

DEBURRING
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Handi-Burr™ Tools

STYLE HB -

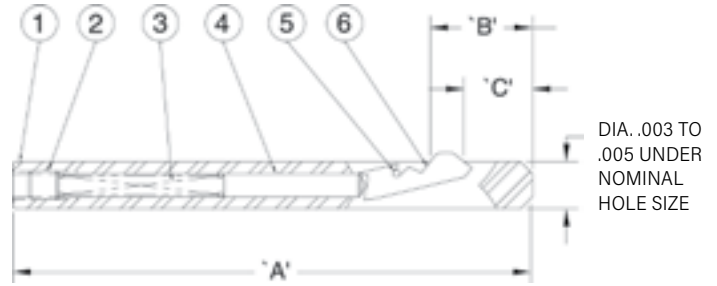
Pilot Length May Be Shortened To Suit

Adaptor Assembly

1. Adaptor
2. Chamfer Adjustment Screw
3. Tension Spring Assembly
4. Arbor Set Screw

Arbor Assembly

5. Arbor
6. Plunger
7. Pivot Pin
8. Blade



Hole Size		Complete Tool EDP No.	Double Acting Blade		A Inch	B Inch	C Inch
Inches	DEC. Equiv.		Size	EDP No.			
5.5mm	0.216	89025	#1	89146	4.50	.87	.56
7/32	0.218	89026					
15/64	0.234	89027					
6.0mm	0.236	89028					
1/4	0.25	89029					
6.5mm	0.255	89030					
17/64	0.265	89031					
7.0mm	0.275	89032					
9/32	0.281	89033					
7.5mm	0.295	89034					
19/64	0.296	89035	#2	89147	5.00	1	.68
5/16	0.312	89036					
8.0mm	0.315	89037					
21/64	0.328	89038					
8.5mm	0.334	89039					
11/32	0.343	89040					
9.0mm	0.354	89041	#3	89148	5.50	1.03	.73
23/64	0.359	89042					
9.5mm	0.374	89043					
3/8	0.375	89044					
25/64	0.39	89045					
10.0mm	0.393	89046					
13/32	0.406	89047	#3-1/2	89149	5.50	1.03	.73
10.5mm	0.413	89048					
27/64	0.421	89049					
11.0mm	0.433	89050					
7/16	0.437	89051					
11.5mm	0.452	89052					
29/64	0.453	89053	#3-1/2	89149	5.50	1.03	.73
15/32	0.468	89054					
12.0mm	0.472	89055					
31/64	0.484	89056					
12.5mm	0.492	89057					
1/2	0.5	89058					
13.0mm	0.511	89059	#4	89150	6.44	1.31	.91
33/64	0.515	89060					
17/32	0.531	89061					
13.5mm	0.513	89062					
35/64	0.546	89063					
14.0mm	0.551	89064					
9/16	0.562	89065					
14.5mm	0.57	89066					
37/64	0.578	89067					
15.0mm	0.59	89068					
19/32	0.593	89069					
39/64	0.609	89070					
15.5mm	0.61	89071					
5/8	0.625	89072					
16.0mm	0.629	89073					
41/64	0.64	89074					
16.5mm	0.649	89075					
21/32	0.656	89076					
17.0mm	0.669	89077					
43/64	0.671	89078					
11/16	0.687	89079					
17.5mm	0.689	89080					
18.0mm	0.708	89081					
18.5mm	0.728	89082					
19.0mm	0.748	89083					
3/4	0.75	89084					

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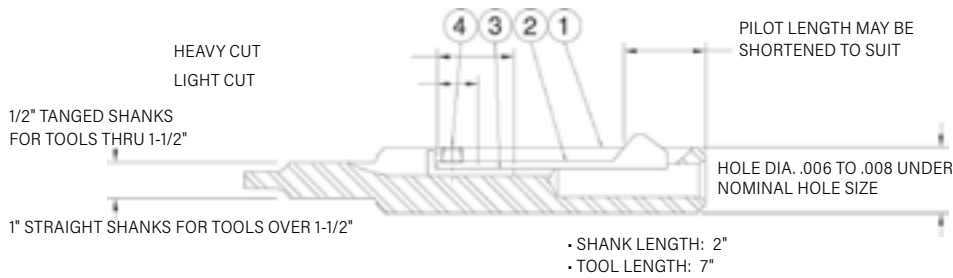
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Handi-Burr™ Tools

STYLE HC -

Pilot Length May Be Shortened To Suit



Assembly

1. Arbor
2. Blade
3. Adjustment Rod
4. Setscrew

Hole Size		Complete Tool EDP No.	Double Acting Blade	
Inches	DEC. Equiv.		Size	EDP No.
3/4	.750	89085	#110	89151
20.0mm	.787	89086		
13/16	.812	89087		
7/8	.875	89088		
15/16	.937	89089		
25.0mm	.984	89090		
1	1.000	89091		
1-1/16	1.062	89092		
1-1/8	1.125	89093		
30.0mm	1.181	89094		
1-3/16	1.187	89095		

Hole Size		Complete Tool EDP No.	Double Acting Blade	
Inches	DEC. Equiv.		Size	EDP No.
1-1/4	1.250	89096	#110	89151
1-5/16	1.312	89097		
1-3/8	1.375	89098		
35.0mm	1.378	89099		
1-1/2	1.500	89105		
40.0mm	1.574	89106		
1-5/8	1.625	89107		
1-3/4	1.750	89108		
45.0mm	1.771	89109		
50.0mm	1.968	89110		
2	2.000	89111		

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Suggested Cutting Speeds

FEED AND SPEED CHART

Material	high Speed Steel	Cobalt Tool Steel	Uncoated Carbide	Coated Carbide
NON-FERROUS MATERIAL				
Aluminum Alloys	600+ ft./min.	—	1200+ ft./min.	—
Magnesium Alloys	600+ ft./min.	—	1000+ ft./min.	—
Brass	300+ ft./min.	—	800 ft./min.	650+ ft./min.
Bronze	80-100 ft./min.	—	250-300 ft./min.	—
TITANIUM (Double Starting Feed Rates)				
Commercially Pure	115-140 ft./min.	—	275-325 ft./min.	—
Alpha & Alpha-Beta Alloys	—	30-50 ft./min.	200-225 ft./min.	—
FERROUS MATERIAL				
STEELS				
Free Machining Carbon Steel	130-180 ft./min.	—	450-500 ft./min.	750-900 ft./min.
Low Carbon Steel	120-170 ft./min.	—	400-450 ft./min.	600-650 ft./min.
Medium Carbon Steel	100-120 ft./min.	—	375-425 ft./min.	550-600 ft./min.
Alloy Steel	100-120 ft./min.	—	375-425 ft./min.	550-600 ft./min.
Alloy and Med. Carbon	—	—	—	—
Heat Treated (Rc 26-32)	75-100 ft./min.	—	250-300 ft./min.	450-500 ft./min.
Alloy and Med. Carbon	—	—	—	—
Heat Treated (Rc 36-40)	—	50-60 ft./min.	180-200 ft./min.	225-275 ft./min.
Alloy and Med. Carbon	—	—	—	—
Heat Treated (Rc 40-48)	—	40-50 ft./min.	150-180 ft./min.	220-250 ft./min.
Alloy and Med. Carbon	—	—	—	—
Heat Treated (Rc 48+)	—	20-30 ft./min.	100-120 ft./min.	—
Tool Steel (Wrought)	40-60 ft./min.	—	180-200 ft./min.	350 ft./min.
STAINLESS STEELS				
Free Machining	80-110 ft./min.	—	100-140 ft./min.	140+ ft./min.
Stainless (300 Series)	50-70 ft./min.	—	80-100 ft./min.	100+ ft./min.
17-4PH Annealed	50-80 ft./min.	—	150-190 ft./min.	190+ ft./min.
17-4PH 200,000 PSI	30-50 ft./min.	—	100-140 ft./min.	140+ ft./min.
HIGH TEMPERATURE ALLOYS				
Hasteloy X, Inconel	15-20 ft./min.	—	45-55 ft./min.	—
Inconel X	—	20-25 ft./min.	—	—
Monel Nickel Alloy	—	20-25 ft./min.	—	—
CAST IRON				
Malleable Iron	100-140 ft./min.	—	400-450 ft./min.	540-700 ft./min.
Gray Cast Iron	65-110 ft./min.	—	220-300 ft./min.	340-450 ft./min.
Ductile Iron	80-125 ft./min.	—	300-350 ft./min.	460-550 ft./min.

USE: .002 - .005 as a starting chip load per tooth.
 For Titanium double the starting feed rates.
 For Deep Slots reduce the ft/min by 20% to 40%

Important: An interactive Speed and Feed Calculator is available on our website at whitneytool.com



Tap Drill Size Chart

Thread Size	Drill Size	Thread Size	Drill Size	Thread Size	Drill Size	Thread Size	Drill Size	Thread Size	Drill Size
Standard Tap & Drill Approximately 75% Thread		Standard Tap & Drill Approximately 75% Thread		Metric Tap & Drill Approximately 70-75% Thread		Rollform Tap & Drill Approximately 65% Thread		Straight Pipe (NPS) Tap & Drill	
0-80	3/64	12-13	27/64	M1.6 x .35	1.25mm	4-48	2.6mm	1/16 - 27	1/4
1-64	53	12-20	29/64	M2.0 x .40	1.6	5-40	33	1/8 - 27	1/32
1-72	53	9/16-12	31/64	M2.5 x .45	2.05	5-44	2.9mm	1/4 - 18	7/16
2-56	50	9/16-18	33/64	M3.0 x .50	2.5	6-32	1/8	3/8 - 18	3/4
2-64	50	5/8-11	17/32	M3.5 x .60	2.9	6-40	3.2mm	1/2 - 14	23/32
3-48	47	5/8-18	37/64	M4.0 x .70	3.3	8-32	25	3/4 - 14	15/16
3-56	46	3/4-10	21/32	M4.5 x .75	3.75	8-36	24	1 - 11/2	1-3/16
4-40	43	3/4-16	11/16	M5.0 x .80	4.2	10-24	11/64	1-1/4 - 11/2	1-1/2
4-48	332	7/8-9	49/64	M6.0 x 1.0	5	10-32	16	1-1/2 - 11/2	1-3/4
5-40	38	7/8-14	13/16	M7.0 x 1.0	6	12-24	5mm	2 - 11/2	2-7/32
5-44	37	1-8	7/8	M8 x 1.25	6.75	12-28	8	Metric Roll Form Tap & Drill Approximately 65% Thread	
6-32	36	1-12	59/64	M10 x 1.50	8.5	14-20	1	M1.6 x .35	1.45mm
6-40	33	1-14	15/16	M12 x 1.75	Y	14-28	A	M2.0 x .40	1.85mm
8-32	29	Taper Pipe (NPT) Tap & Drill		M14 x 2.0	12	516-18	7.3mm	M2.5 x .45	2.30mm
8-36	29	1/16-27	D	M16 x 2.0	14	3/8-16	S	M3.0 x .50	35
10-24	25	1/8-27	R	M18 x 2.5	15.5	3/8-24	T	M3.5 x .60	30
10-32	21	1/4-18	7/16	M20 x 2.5	17.5	7/16-14	13/32	M4.0 x .70	3.7mm
12-24	17	3/8-18	37/64	Rollform Tap & Drill Approximately 65% Thread		7/16-20	10.5mm	M5.0 x .80	14
12-28	15	1/2-14	45/64	0-80	54	12-13	15/32	M6.0 x 1.0	5.5mm
14-20	7	3/4-14	59/64	1-64	1.65mm	12-20	31/64	M8 x 1.25	7.4mm
14-28	3	1 - 11/2	1-5/32	1-72	1.7mm	9/16-12	17/32	M10 x 1.50	9.3mm
516-18	F	1-1/4 - 11/2	1-1/2	2-56	5/64	9/16-18	13.5mm	M12 x 1.75	7/16
516-24	I	1-1/2 - 11/2	1-47/64	2-64	2mm	5/8-11	15mm	M14 x 2.0	13mm
3/8-16	516	2 - 11/2	2-7/32	3-48	43	5/8-18	19/32	M16 x 2.0	15mm
3/8-24	Q			3-56	2.3mm	3/4-10	45/64	M20 x 2.5	18.75mm
7/16-14	U			4-40	39	3/4-16	23/32		
7/16-20	W					7/8-9	.823		
12-12	27/64					7/8-14	27/32		
						1-8	15/16		
						1-12	.963		

Decimal Equivalents

Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal
.1mm	0.0039	3/64	0.0469	3.5mm	0.1378	2	0.2210	23/64	0.3594	16mm	0.6299	24mm	0.9449
.2mm	0.0079	55	0.0520	28	0.1405	1	0.2280	U	0.3680	41/64	0.6406	61/64	0.9531
.3mm	0.0118	54	0.0550	9/64	0.1406	A	0.2340	9.5mm	0.3740	16.5mm	0.6496	24.5mm	0.9646
80	0.0135	1.5mm	0.0591	27	0.1440	15/64	0.2344	3/8	0.3750	21/32	0.6562	31/32	0.9688
79	0.0145	53	0.0595	26	0.1470	6mm	0.2362	V	0.3770	17mm	0.6693	25mm	0.9843
1/64	0.0156	1/16	0.0625	25	0.1495	B	0.2380	W	0.3860	43/64	0.6719	63/64	0.9844
.4mm	0.0157	52	0.0635	24	0.1520	C	0.2420	25/64	0.3906	11/16	0.6875	1	1.0000
78	0.0160	51	0.0670	23	0.1540	D	0.2460	10mm	0.3937	17.5mm	0.6890		
77	0.0180	50	0.0700	5/32	0.1562	E	0.2500	X	0.3970	45/64	0.7031		
.5mm	0.0197	49	0.0730	22	0.1570	1/4	0.2500	Y	0.4040	18mm	0.7087		
76	0.0200	48	0.0760	4mm	0.1575	6.5mm	0.2559	13/32	0.4062	23/32	0.7188		
75	0.0210	5/64	0.0781	21	0.1590	F	0.2570	Z	0.4130	18.5mm	0.7283		
74	0.0225	47	0.0785	20	0.1610	G	0.2610	10.5mm	0.4134	47/64	0.7344		
.6mm	0.0236	2mm	0.0787	19	0.1660	17/64	0.2656	27/64	0.4219	19mm	0.7480		
73	0.0240	46	0.0810	18	0.1695	H	0.2660	11mm	0.4331	3/4	0.7500		
72	0.0250	45	0.0820	11/64	0.1719	I	0.2720	7/16	0.4375	49/64	0.7656		
71	0.0260	44	0.0860	17	0.1730	7mm	0.2756	11.5mm	0.4528	19.5mm	0.7677		
.7mm	0.0276	43	0.0890	16	0.1770	J	0.2770	29/64	0.4531	25/32	0.7812		
70	0.0280	42	0.0935	4.5mm	0.1772	K	0.2810	15/32	0.4688	20mm	0.7874		
69	0.0292	3/32	0.0938	15	0.1800	9/32	0.2812	12mm	0.4724	51/64	0.7969		
68	0.0310	41	0.0960	14	0.1820	L	0.2900	31/64	0.4844	20.5mm	0.8071		
1/32	0.0312	40	0.0980	13	0.1850	M	0.2950	12.5mm	0.4921	13/16	0.8125		
.8mm	0.0315	2.5mm	0.0984	3/16	0.1875	7.5mm	0.2953	1/2	0.5000	21mm	0.8268		
67	0.0320	39	0.0995	12	0.1890	19/64	0.2969	13mm	0.5118	53/64	0.8281		
66	0.0330	38	0.1015	11	0.1910	N	0.3020	33/64	0.5156	27/32	0.8438		
65	0.0350	37	0.1040	10	0.1935	5/16	0.3125	17/32	0.5313	21.5mm	0.8465		
.9mm	0.0354	36	0.1065	9	0.1960	8mm	0.3150	13.5mm	0.5315	55/64	0.8594		
64	0.0360	7/64	0.1094	5mm	0.1969	O	0.3160	35/64	0.5469	22mm	0.8661		
63	0.0370	35	0.1100	8	0.1990	P	0.3230	14mm	0.5512	7/8	0.8750		
62	0.0380	34	0.1110	7	0.2010	21/64	0.3281	9/16	0.5625	22.5mm	0.8858		
61	0.0390	33	0.1130	13/64	0.2031	Q	0.3320	14.5mm	0.5709	57/64	0.8906		
1mm	0.0394	32	0.1160	6	0.2040	8.5mm	0.3346	37/64	0.5781	23mm	0.9055		
60	0.0400	3mm	0.1181	5	0.2055	R	0.3390	15mm	0.5906	29/32	0.9062		
59	0.0410	31	0.1200	4	0.2090	11/32	0.3438	19/32	0.5938	59/64	0.9219		
58	0.0420	1/8	0.1250	3	0.2130	S	0.3480	39/64	0.6094	23.5mm	0.9252		
57	0.0430	30	0.1285	5.5mm	0.2165	9mm	0.3543	15.5mm	0.6102	15/16	0.9375		
56	0.0465	29	0.1360	7/32	0.2188	T	0.3580	5/8	0.6250				



Re-Tipping Re-Grinding Services

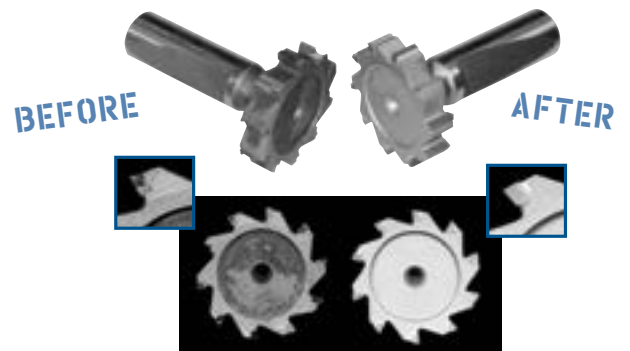
Whitney Carbide Re-Tipping Service

Whitney Tool Company now provides a tool re-tipping service for all carbide tipped cutting tools—manufactured by Whitney.

Through our re-tipping service, cutting tools that would otherwise be discarded are restored to new tool specifications for up to 40% off new tool prices. So don't throw away those old cutters. Send them to us and we'll tell you if they can be restored.

YOUR SAVINGS WILL ADD UP QUICKLY

2-6 pieces	30% Savings
7-11 pieces	35% Savings
12 or more pieces (2 piece minimum)	40% Savings



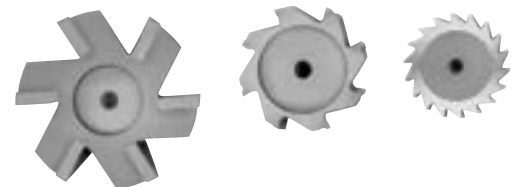
Whitney Re-Grinding Service

We also offer a tool re-grinding service to restore cutting edges to high speed steel (HSS) solid carbide and carbide tipped (CT) tools. If tools are taken out of service before the cutting edges and body are irreparably damaged, our experts can restore them to like new cutting performance.

As in our re-tipping program, Whitney's re-grinding expertise can generate significant savings for our existing customers by restoring cutting edges to tools dulled by heavy use.

FOR CUTTING TOOLS THAT QUALIFY FOR RE-GRINDING, YOUR SAVINGS WILL BE AS FOLLOWS:

5-10 pieces	60% Savings
11 or more pieces (5 piece minimum)	65% Savings





Solid Carbide Saws and Milling Cutters

Whitney Tool has been in the business of manufacturing milling cutters for over 50 years. While our catalog features shank type milling cutters, we have extensive experience in the manufacture of Arbor style milling cutters.

Now that experience is being applied to solid carbide saws and milling cutters.

With Whitney Tool's extensive experience, we can help you select the right tool for your job. We will recommend the most economical and effective tool for your application whether it is HSS, M42, Carbide Tipped or Solid Carbide. With the software available on our CNC Cutter Grinders, we can convert CAD drawings to machine files and

accurately grind intricate profiles on cutters. As with all tools manufactured by Whitney Tool, you will get the right tool for the job, manufactured to exacting standards. Ask us for a quote. If you do not have a tool drawing, we can work from descriptions or piece part drawings. Whitney Tool can provide you with a CAD drawing of your tool for approval and also a permanent record.

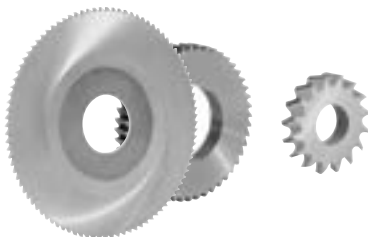
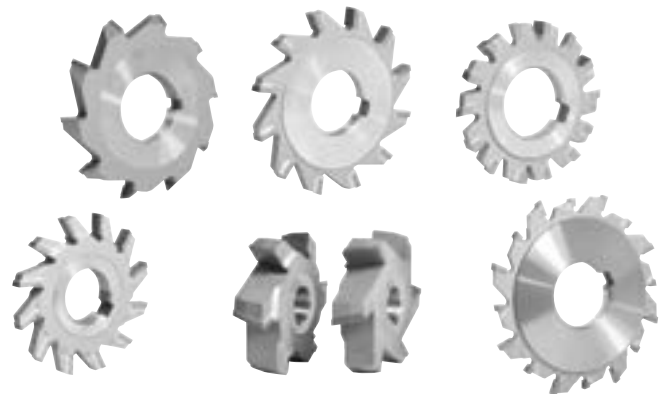
Contact your local Distributor and ask for a quote on a Whitney Milling Cutter.

Custom and Special Order Tools



Whitney Carbide Tipped

- Saws and milling cutters
- Plain milling cutters
- Side Milling Cutters Straight and Stagger Tooth
- Up to 8" Diameter
- Carbide blanks to braze are kept in stock for quick delivery
- Gang sets
- Intricate forms not available in Solid Carbide or Indexable cutters
- Cutters can be retipped to new cutter dimensions saving up to 50% of new cost

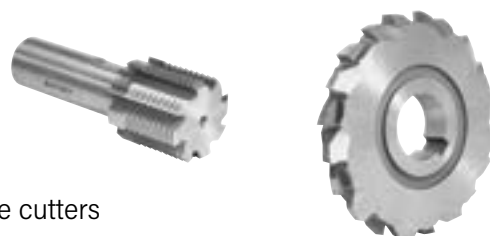


Whitney Solid Carbide

- Saws and milling cutters
- Standard and special diameters and widths
- 3/4" to 4" blanks in stock
- Narrower widths available
- than with carbide tipped
- Special Shapes and forms
- Gang sets
- Cutters available with keyways
- Thread milling cutters

Whitney High Speed Steel & M42 Cobalt

- Saws and milling cutters
- Plain milling cutters
- Side milling cutters straight and stagger tooth
- Up to 8" Diameter
- Thread milling cutters
- Gang sets
- Intricate forms not available in Solid Carbide or Indexable cutters



Price Quotation Request Sheet

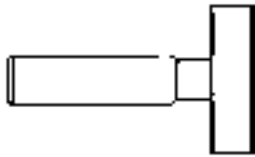
Company _____

Contact _____

Email _____

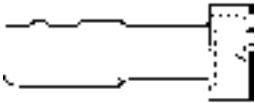
Phone _____

Fax _____



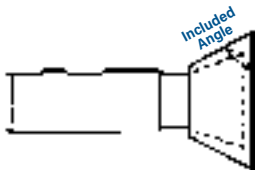
KEYSEAT STYLE

1/2" x 2" Long Shank Standard



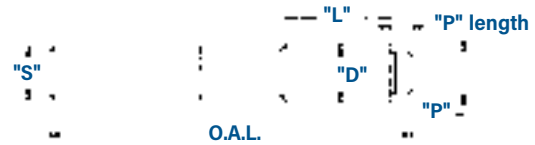
T-SLOT STYLE

10° RH and LH Staggered
Teeth Standard
Weldon Flat Standard

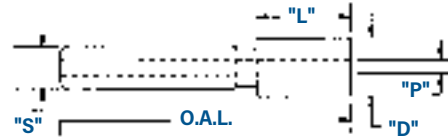


DOVETAIL STYLE

Weldon Flat Standard



SOLID PILOT

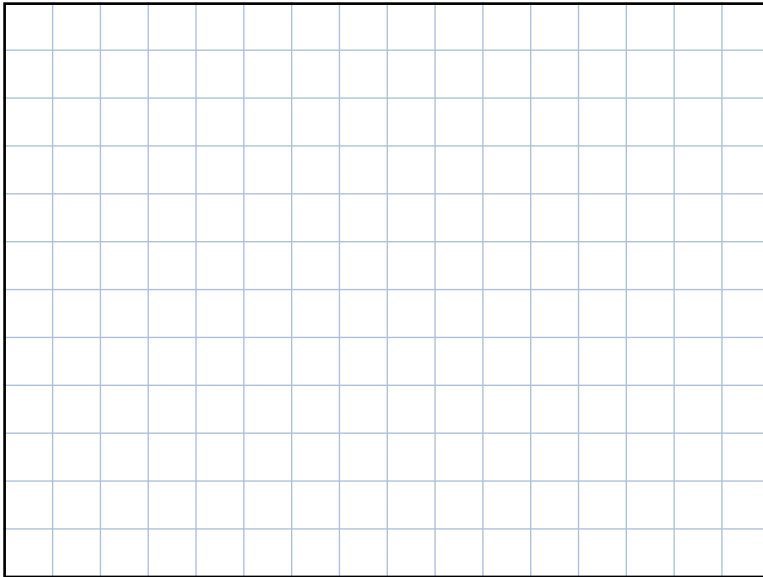


INTERCHANGEABLE PILOT

SKETCH YOUR CUTTER HERE, THEN EMAIL TO WHITNEY TOOL FOR A PROMPT QUOTE!

Provide us with the special features and dimensions and Whitney will quote standard specification on all other features.

Email us at quotes@whitneytool.com



Cutter No. _____

Cutter Material:

- High Speed Steel
- Solid Carbide
- PVD Coated
- TiCN Coated
- Cobalt/M42
- Carbide Tipped
- TiALN Coated
- Other _____

No. of Teeth _____

Straight Teeth _____

Helix Angle _____

Cutting Rotation _____

Shank & Drive Type _____

Special Instructions _____

D _____

L _____

S _____

P Diameter _____

P Length _____

Overall Length _____

Quantity

Price Each

NOTE:

Whitney Tool can add radii to all types of cutters. Specify a radius on your sketch and we will provide a price and delivery.

Standard PVD Coating - Chart

Coating Name	Coating Color	Hardness (HV)	Coating Thickness (μ = Microns)	Coefficient of friction (COF)	Coating Temp (F)	Definition / Common Use
TiN* (Titanium Nitride)	Gold	2300-2500	Industry Standard: 2.2 μ - 3.2 μ Maximum Range: 1-8 μ DCT Tolerance: 2.5 μ +/- 20%	0.4	700°	Great general purpose coating, a proven starter coating for numerous applications / machining ferrous materials, modling, medical industry*
TiCN* (Titanium Carbo Nitride)	Rose	2800-3200	Industry Standard: 2.5 μ - 3.5 μ Maximum Range: 1-8 μ DCT Tolerance: 2.8 μ +/- 20%	0.3	800°	Improved hardness, toughness, wear resistance over PVD with very low COF / stamping, punching, blanking, forming tools, tough machining, injection molding*
TiAlN* (Titanium Aluminum Nitride)	Dark Gray	2900-3100	Industry Standard: 1.8 μ - 3.2 μ Maximum Range: 1-5 μ DCT Tolerance: 2.4 μ +/- 20%	0.35	850°	Forgiving coating with high surface hardness at elevated temp / dry machining, high temp. machining, fast feed rate machining, hot forging*
AlTiN (Aluminum Titanium Nitride)	Dark Gray	3000-3400	Industry Standard: 1.8 μ - 3.2 μ Maximum Range: 1-5 μ DCT Tolerance: 2.5 μ +/- 20%	0.35	800°	Versatile coating, low COF, higher breakdown temp then TiAlN / machining cast iron. Any tough application in high temperatures, high temp drilling

Additional Coatings - Priced Upon Request

TiAlSiN* (Titanium Aluminum Silicon Nitride)	Gray	3200-3500	Industry Standard: 1.8 μ - 3.2 μ Maximum Range: 1-4 μ DCT Tolerance: 2.5 μ +/- 20%	0.35	850°	Extremely hard and tough, higher breakdown temp then TiAlN/AlTiN, excellent wear resistance when post treated / machining in a corrosive environment, machining aluminum, copper, metal forming, die cast molds*
ZrN (Zirconium Nitride)	Pale Gold	2300-2500	Industry Standard: 2.2 μ - 3.8 μ Maximum Range: 1-5 μ DCT Tolerance: 3.0 μ +/- 20%	0.35	600°	Exceptional abrasion resistance and lubricity / general purpose machining, medical
CrN (Chromium Nitride)	Silver	1800-2100	Industry Standard: 2.2 μ - 3.8 μ Maximum Range: 1-5 μ DCT Tolerance: 3.0 μ +/- 20%	0.45	700°	Great sliding wear resistance, ductile and helps prevent cold welding similar in use to hard chrome plating / machining in a corrosive environment, machining aluminum, copper, metal forming, die cast molds
AlCrN (Aluminum Chromium Nitride)	Blue-Gray	3000-3200	Industry Standard: 1.8 μ - 3.2 μ Maximum Range: 1-5 μ DCT Tolerance: 2.5 μ +/- 20%	0.35	900°	Superb hot hardness with extraordinary wear resistance under extreme mechanical stress

***NOTE: Can be stripped and reapplied to add life to expensive components.**

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906 R Street, Bedford, IN 47421
Phone: 812-275-4491 • Fax: 812-275-6458
General Inquiries:
sales@whitneytool.com
Special Tool Pricing / inquiries:
quotes@whitneytool.com
Standard Tool Price &
Availability and Orders:
orders@whitneytool.com



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