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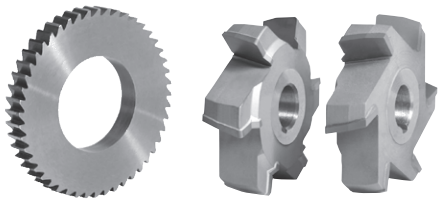
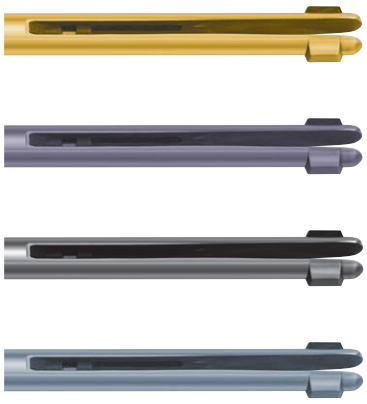




WHITNEY TOOL MEANS

MADE IN THE USA

On the Cutting Edge... at Whitney Tool!

Whitney Tool is recognized as a leading manufacturer of Woodruff style slotting and keyseat milling cutters, as well as Counterbores, Counterbore pilots, T-Slot, dovetail and other specialty milling cutters including combined drills and countersinks.

We recently took a leadership position in the manufacture of de-burring tools through the acquisition of Cogsdill Enterprises, the developer and patent holder of the Burr-Zit™ tool. Burr-Zit™ is the original clothespin type deburring tool that can de-burr both sides of a drilled, punched or reamed hole in one operation, even when only one side is accessible.

In response to customer demand, this new catalog also features the majority of Whitney cutting tools in TiN coating as standard.

Burr-Zit™

While our standard product line will continue to grow in response to our customers' need for fast delivery of top quality cutters, we will also continue to be the industry leader in the manufacture of custom-made cutting tools. We make a variety of custom-made shank type and arbor type milling cutters in high speed steel, cobalt, carbide tipped and solid carbide. We also do our own heat treating, which gives us maximum control over the quality and scheduling of our cutters. For your convenience, use the quote request form on the facing page. You will find our prices, quality and delivery to be outstanding.

ALSO AVAILABLE:

Special forms, profiles, left hand cut, Cobalt Super High Speed Steel and Titanium Nitride coating and special diameters for Pilots for Counterbores. Prices quoted on request.

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

Whitney Tool provides all types of PVD coatings, including TiN, TiCN, TiALN, as well as other special coatings. We can also provide operation specific edge prep.

MADE IN THE USA

COATING SELECTION 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: 2.2μ - 3.2μ Maxium Range: 1-8μ DCT Tolerance: 2.5μ +/- 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: 2.5μ - 3.5μ Maxium Range: 1-8μ DCT Tolerance: 2.8μ +/- 20%	0.3	800	Improved hardness, toughness, wear resistance over TiN with very low COF / Stamping, punching, blanking, forming tools, tough machining, injection molding*
TiAlN (Titanium Aluminum Nitride)	Dark Gray	2900-3100	Industry Standard: 1.8μ - 3.2μ Maxium Range: 1-5μ DCT Tolerance: 2.4μ +/- 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: 1.8μ - 3.2μ Maxium Range: 1-5μ DCT Tolerance: 2.5μ +/- 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
TiAlSiN (Titanium Aluminum Silicon Nitride)	Gray	3200-3500	Industry Standard: 1.8μ - 3.2μ Maxium Range: 1-4μ DCT Tolerance: 2.5μ +/- 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: 2.2μ - 3.8μ Maxium Range: 1-5μ DCT Tolerance: 3.0μ +/- 20%	0.35	600	Exceptional abrasion resistance and lubricity / General purpose machining, medical
CrN (Chromium Nitride)	Silver	1800-2100	Industry Standard: 2.2μ - 3.8μ Maxium Range: 1-5μ DCT Tolerance: 3.0μ +/- 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 alumium, copper, metal forming, die cast molds
AlCrN (Aluminum Chromium Nitride)	Blue-Gray	3000-3200	Industry Standard: 1.8μ - 3.2μ Maxium Range: 1-5μ DCT Tolerance: 2.5μ +/- 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.*

Price Quotation Request Sheet

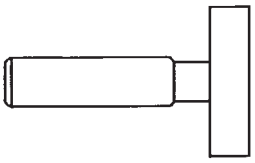
Email _____

Company _____

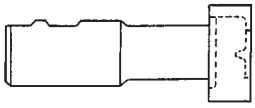
Phone _____

Contact _____

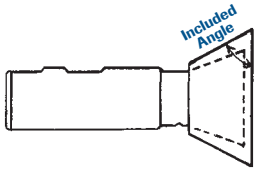
Fax _____



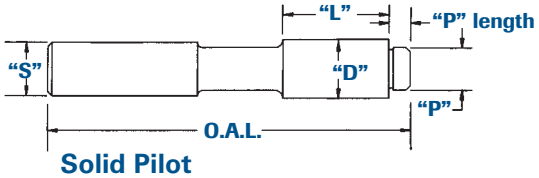
Keyseat Style
1/2″ x 2″ Long Shank Standard



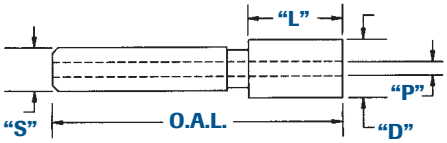
T-Slot Style
10° RH and LH Staggered Teeth Standard
Weldon Flat Standard



Dovetail Style
Weldon Flat Standard



Solid Pilot



Interchangeable Pilot

Sketch Your Cutter Here, then Fax 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 _____ or _____

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.

Cutter No. _____

Cutter Material:

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

No. of Teeth _____

Straight Teeth _____

Helix Angle _____

Cutting Rotation _____

Shank & Drive Type _____

Special Instructions _____

_____

_____

_____

D _____

L _____

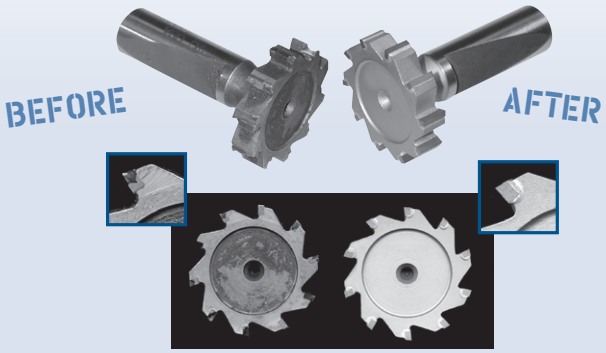
S _____

P Diameter _____

P Length _____

Overall Length _____

MADE IN THE USA



Whitney Carbide Re-tipping Service

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

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	List less 30%
7-11 pieces	List less 35%
12 or more pieces	List less 40%

Whitney Re-grinding Service

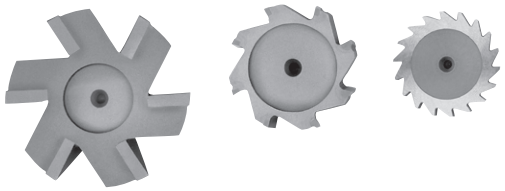
We also offer a tool re-grinding service to restore cutting edges to high speed steel (HSS) and carbide tipped (CT) tools. If tools are taken out of service before the cutting edges and body are irreparably damaged, our experts can restore them to like new cutting performance.

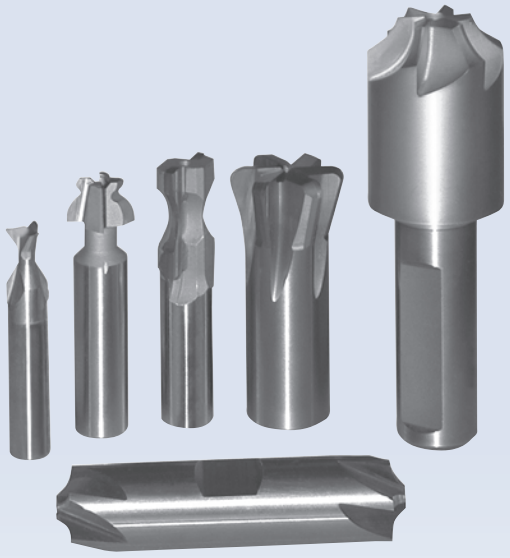
As in our re-tipping program, Whitney's re-grinding expertise can generate significant savings for our existing customers by restoring cutting edges to tools dulled by heavy use.

For cutting tools that qualify for re-grinding, your savings will be as follows:

5-10 pieces	List less 60%
11 or more pieces	List less 65%

(5 piece minimum)





Contact your Distributor to order.

Whitney Solid Carbide Tooling

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.

www.newmantools.com tel 1-800-465-1384 fax 1-800-605-2442

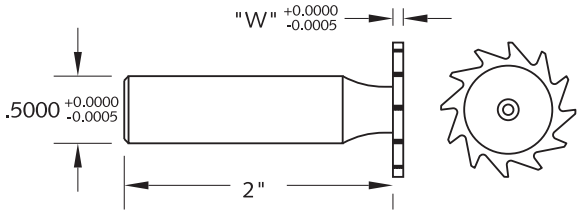
WHITNEY TOOL COMPANY, INC.

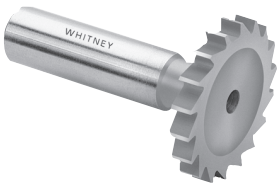
Whitney Decimal Width Slotting Cutters

» STYLE 115 HIGH SPEED STEEL

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 HIGH SPEED STEEL

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

H.S.S. WTC No.*	Cutter Dia.	Width Range	H.S.S. w/TiN WTC No.*
50 + width	1/4"	.015-.070	50 + width + T
51 + width	5/16"	.015-.100	51 + width + T
52 + width	3/8"	.015-.130	52 + width + T
53 + width	1/2"	.015-.130	53 + width + T
54 + width	5/8"	.015-.190	54 + width + T
55 + width	3/4"	.020-.255	55 + width + T
56 + width	7/8"	.030-.255	56 + width + T
57 + width	1"	.030-.380	57 + width + T
58 + width	1-1/8"	.030-.315	58 + width + T
59 + width	1-1/4"	.030-.380	59 + width + T
60 + width	1-3/8"	.030-.380	60 + width + T
61 + width	1-1/2"	.030-.380	61 + width + T
62 + width	1-3/4"	.090-.505	62 + width + T
63 + width	2"	.090-.505	63 + width + T

*Add width's 4 place decimal to WTC No.
(example: 1/4" diameter by .0155" wide = WTC No. 50.0155)

Allow one week delivery for TiN.

Straight Tooth

www.whitneytool.com

» STYLE 115 M42 COBALT

» M42 Cobalt
» Right Hand Cut
» 1/2" Dia. Straight Shank
» 2" Underhead Length

M42 Cobalt WTC No.*	Cutter Dia.	Width Range	M42 Cobalt w/TiN WTC No.*
50 + width + M42	1/4"	.015-.070	50 + width + M42 + T
51 + width + M42	5/16"	.015-.100	51 + width + M42 + T
52 + width + M42	3/8"	.015-.130	52 + width + M42 + T
53 + width + M42	1/2"	.015-.130	53 + width + M42 + T
54 + width + M42	5/8"	.015-.190	54 + width + M42 + T
55 + width + M42	3/4"	.020-.255	55 + width + M42 + T
56 + width + M42	7/8"	.030-.255	56 + width + M42 + T
57 + width + M42	1"	.030-.380	57 + width + M42 + T
58 + width + M42	1-1/8"	.030-.315	58 + width + M42 + T
59 + width + M42	1-1/4"	.030-.380	59 + width + M42 + T
60 + width + M42	1-3/8"	.030-.380	60 + width + M42 + T
61 + width + M42	1-1/2"	.030-.380	61 + width + M42 + T
62 + width + M42	1-3/4"	.090-.505	62 + width + M42 + T
63 + width + M42	2"	.090-.505	63 + width + M42 + T

*Add width's 4 place decimal AND M42 to WTC No.
(example: 1/4" diameter by .0155" wide = WTC No. 50.0155M42)

Ships in 2 Working Days!

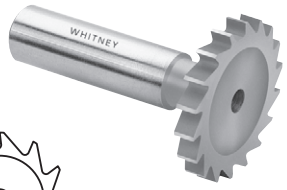
Allow one week delivery for TiN.

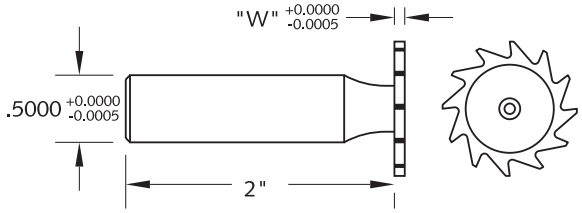
Ordering Information:
Please be sure to specify the quantity, style number, WTC number, diameter, width, and material.

Whitney Woodruff Style Narrow Width Slotting Cutters

» STYLE 110

» 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

M4-H.S.S.				Diameter x Width		No. of Teeth	Neck Dia.	M42 Cobalt			
WTC No.	EDP No.	WTC TiN No.	TiN EDP					WTC No.	EDP No.	M42 TiN No.	M42 TiN EDP No.
602501	10165	602501T	15165	1⁄4"	1⁄64"	8	0.105	602501M42	20165	602501M42T	25165
602502	10166	602502T	15166		1⁄32"			602502M42	20166	602502M42T	25166
602503	10167	602503T	15167		3⁄64"			602503M42	20167	602503M42T	25167
603121	10168	603121T	15168	5⁄16"	1⁄64"			603121M42	20168	603121M42T	25168
603122	10169	603122T	15169		1⁄32"			603122M42	20169	603122M42T	25169
603123	10170	603123T	15170		3⁄64"			603123M42	20170	603123M42T	25170
603751	10171	603751T	15171	3⁄8"	1⁄64"			603751M42	20171	603751M42T	25171
603752	10172	603752T	15172		1⁄32"			603752M42	20172	603752M42T	25172
603753	10173	603753T	15173		3⁄64"			603753M42	20173	603753M42T	25173
605001	10174	605001T	15174	1⁄2"	1⁄64"	12	0.130	605001M42	20174	605001M42T	25174
605000	10175	605000T	15175		.020			605000M42	20175	605000M42T	25175
605002	10176	605002T	15176		1⁄32"			605002M42	20176	605002M42T	25176
605003	10177	605003T	15177		3⁄64"			605003M42	20177	605003M42T	25177
606251	10178	606251T	15178	5⁄8"	1⁄64"		0.191	606251M42	20178	606251M42T	25178
606250	10179	606250T	15179		.020			606250M42	20179	606250M42T	25179
606252	10180	606252T	15180		1⁄32"			606252M42	20180	606252M42T	25180
606253	10181	606253T	15181		3⁄64"			606253M42	20181	606253M42T	25181
606254	10182	606254T	15182		1⁄16"			606254M42	20182	606254M42T	25182
606255	10183	606255T	15183		5⁄64"			606255M42	20183	606255M42T	25183
607502	10184	607502T	15184	3⁄4"	1⁄32"		0.217	607502M42	20184	607502M42T	25184
607503	10185	607503T	15185		3⁄64"			607503M42	20185	607503M42T	25185
607504	10186	607504T	15186		1⁄16"			607504M42	20186	607504M42T	25186
607505	10187	607505T	15187		5⁄64"			607505M42	20187	607505M42T	25187
607506	10188	607506T	15188		3⁄32"			607506M42	20188	607506M42T	25188
607507	10189	607507T	15189		7⁄64"			607507M42	20189	607507M42T	25189
608753	10190	608753T	15190	7⁄8"	3⁄64"	14	0.246	608753M42	20190	608753M42T	25190
608754	10191	608754T	15191		1⁄16"			608754M42	20191	608754M42T	25191
608755	10192	608755T	15192		5⁄64"			608755M42	20192	608755M42T	25192
608756	10193	608756T	15193		3⁄32"			608756M42	20193	608756M42T	25193
608757	10194	608757T	15194		7⁄64"			608757M42	20194	608757M42T	25194
608758	10195	608758T	15195		1⁄8"			608758M42	20195	608758M42T	25195
608759	10196	608759T	15196		9⁄64"			608759M42	20196	608759M42T	25196
610003	10197	610003T	15197	1"	3⁄64"	16	0.279	610003M42	20197	610003M42T	25197
610004	10198	610004T	15198		1⁄16"			610004M42	20198	610004M42T	25198
610005	10199	610005	15199		5⁄64"			610005M42	20199	610005M42T	25199
610006	10200	610006T	15200		3⁄32"			610006M42	20200	610006M42T	25200
610007	10201	610007T	15201		7⁄64"			610007M42	20201	610007M42T	25201
610008	10202	610008T	15202		1⁄8"			610008M42	20202	610008M42T	25202
610009	10203	610009T	15203		9⁄64"			610009M42	20203	610009M42T	25203
610010	10204	610010T	15204		5⁄32"			610010M42	20204	610010M42T	25204
610011	10205	610011T	15205		11⁄64"			610011M42	20205	610011M42T	25205

Allow one week delivery for TiN.

Narrow Width Slotting Cutters continue on next page. . .

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

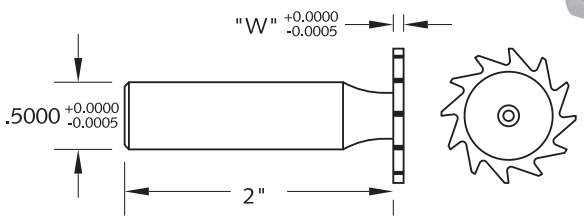
Whitney Woodruff Style Narrow Width Slotting Cutters

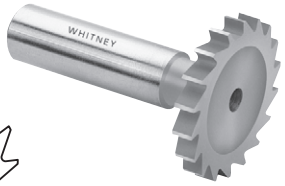
» STYLE 110

» 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





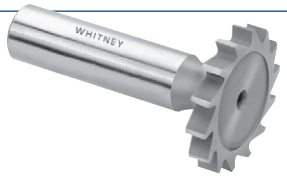
Narrow Width Slotting Cutters continued. . .

M4-H.S.S.				Diameter x Width		No. of Teeth	Neck Dia.	M42 Cobalt			
WTC No.	EDP No.	WTC TiN #	TiN EDP					WTC No.	EDP No.	M42 TiN #	M42 TiN EDP No.
611253	10206	611253T	15206	1-1/8"	3/64"	16	0.312	611253M42	20206	611253M42T	25206
611254	10207	611254T	15207		1/16"			611254M42	20207	611254M42T	25207
611255	10208	611255T	15208		5/64"			611255M42	20208	611255M42T	25208
611256	10209	611256T	15209		3/32"			611256M42	20209	611256M42T	25209
611257	10210	611257T	15210		7/64"			611257M42	20210	611257M42T	25210
611258	10211	611258T	15211		1/8"			611258M42	20211	611258M42T	25211
611259	10212	611259T	15212		9/64"			611259M42	20212	611259M42T	25212
611210	10213	611210T	15213		5/32"			611210M42	20213	611210M42T	25213
611211	10214	611211T	15214		11/64"			611211M42	20214	611211M42T	25214
612503	10215	612503T	15215	1-1/4"	3/64"	18		612503M42	20215	612503M42T	25215
612504	10216	612504T	15216		1/16"			612504M42	20216	612504M42T	25216
612505	10217	612505T	15217		5/64"			612505M42	20217	612505M42T	25217
612506	10218	612506T	15218		3/32"			612506M42	20218	612506M42T	25218
612507	10219	612507T	15219		7/64"			612507M42	20219	612507M42T	25219
612508	10220	612508T	15220		1/8"			612508M42	20220	612508M42T	25220
612509	10221	612509T	15221		9/64"			612509M42	20221	612509M42T	25221
612510	10222	612510T	15222		5/32"			612510M42	20222	612510M42T	25222
612511	10223	612511T	15223		11/64"			612511M42	20223	612511M42T	25223
613754	10224	613754T	15224	1-3/8"	1/16"		0.401	613754M42	20224	613754M42T	25224
613755	10225	613755T	15225		5/64"			613755M42	20225	613755M42T	25225
613756	10226	613756T	15226		3/32"			613756M42	20226	613756M42T	25226
613757	10227	613757T	15227		7/64"			613757M42	20227	613757M42T	25227
613758	10228	613758T	15228		1/8"			613758M42	20228	613758M42T	25228
613759	10229	613759T	15229		9/64"			613759M42	20229	613759M42T	25229
613710	10230	613710T	15230		5/32"			613710M42	20230	613710M42T	25230
613711	10231	613711T	15231		11/64"			613711M42	20231	613711M42T	25231
613712	10232	613712T	15232		3/16"			613712M42	20232	613712M42T	25232
613714	10233	613714T	15233		7/32"			613714M42	20233	613714M42T	25233
615004	10234	615004T	15234	1-1/2"	1/16"	20	0.435	615004M42	20234	615004M42T	25234
615005	10235	615005T	15235		5/64"			615005M42	20235	615005M42T	25235
615006	10236	615006T	15236		3/32"			615006M42	20236	615006M42T	25236
615007	10237	615007T	15237		7/64"			615007M42	20237	615007M42T	25237
615008	10238	615008T	15238		1/8"			615008M42	20238	615008M42T	25238
615009	10239	615009T	15239		9/64"			615009M42	20239	615009M42T	25239
615010	10240	615010T	15240		5/32"			615010M42	20240	615010M42T	25240
615011	10241	615011T	15241		11/64"			615011M42	20241	615011M42T	25241
615012	10242	615012T	15242		3/16"			615012M42	20242	615012M42T	25242
615014	10243	615014T	15243		7/32"			615014M42	20243	615014M42T	25243

Allow one week delivery for TiN.

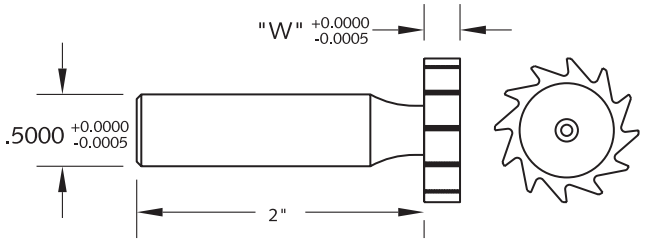
Ordering Information:
Please be sure to specify the quantity, style number, WTC or EDP number, diameter, width, and material.

Whitney Woodruff Keyseat Milling Cutters



» STYLE 100 M4-HIGH SPEED STEEL/TiN 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

M4-H.S.S.		American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	M4-H.S.S. w/TiN	
WTC No.	EDP No.								WTC No.	EDP No.
102020	10001	202	201	1/4"	1/16"	0.105	2-1/16"	8	102020T	15001
102025	10002	202-1/2	206	5/16"		0.105	2-1/16"		102025T	15002
103025	10003	302-1/2	207		3/32"	0.120	2-3/32"		103025T	15003
102030	10004	203	211	3/8"	1/16"	0.105	2-1/16"		102030T	15004
103030	10005	303	212		3/32"	0.120	2-3/32"		103030T	15005
104030	10006	403	213		1/8"	0.150	2-1/8"		104030T	15006
102040	10007	204	1	1/2"	1/16"	0.130	2-1/16"	10	102040T	15007
103040	10008	304	2		3/32"	0.160	2-3/32"		103040T	15008
104040	10009	404	3		1/8"	0.191	2-1/8"		104040T	15009
103050	10010	305	4	5/8"	3/32"	0.191	2-3/32"		103050T	15010
104050	10011	405	5		1/8"	0.223	2-1/8"		104050T	15011
105050	10012	505	6		5/32"	0.252	2-5/32"		105050T	15012
106050	10013	605	61		3/16"	0.279	2-3/16"		106050T	15013
104060	10014	406	7	3/4"	1/8"	0.217	2-1/8"		104060T	15014
105060	10015	506	8		5/32"	0.246	2-5/32"		105060T	15015
106060	10016	606	9		3/16"	0.279	2-3/16"		106060T	15016
108060	10017	806	91		1/4"	0.342	2-1/4"		108060T	15017
105070	10018	507	10	7/8"	5/32"	0.246	2-5/32"	12	105070T	15018
106070	10019	607	11		3/16"	0.279	2-3/16"		106070T	15019
107070	10020	707	12		7/32"	0.312	2-7/32"		107070T	15020
108070	10021	807	A		1/4"	0.342	2-1/4"		108070T	15021
106080	10022	608	13	1"	3/16"	0.279	2-3/16"		106080T	15022
107080	10023	708	14		7/32"	0.312	2-7/32"		107080T	15023
108080	10024	808	15		1/4"	0.342	2-1/4"		108080T	15024
101008	10025	1008	B		5/16"	0.401	2-5/16"		101008T	15025
101208	10026	1208	152		3/8"	0.467	2-3/8"		101208T	15026
106090	10027	609	16	1-1/8"	3/16"	0.312	2-3/16"	14	106090T	15027
107090	10028	709	17		7/32"	0.342	2-7/32"		107090T	15028
108090	10029	809	18		1/4"	0.374	2-1/4"		108090T	15029
101009	10030	1009	C		5/16"	0.435	2-5/16"		101009T	15030
106100	10031	610	19	1-1/4"	3/16"	0.312	2-3/16"		106100T	15031
107100	10032	710	20		7/32"	0.342	2-7/32"		107100T	15032
108100	10033	810	21		1/4"	0.374	2-1/4"		108100T	15033
101010	10034	1010	D		5/16"	0.435	2-5/16"		101010T	15034
101210	10035	1210	E		3/8"	0.467	2-3/8"		101210T	15035
108110	10036	811	22	1-3/8"	1/4"	0.401	2-1/4"		108110T	15036
101011	10037	1011	23		5/16"	0.467	2-5/16"		101011T	15037
101211	10038	1211	F		3/8"	0.467	2-3/8"		101211T	15038
108120	10039	812	24	1-1/2"	1/4"	0.435	2-1/4"		108120T	15039
101012	10040	1012	25		5/16"	0.467	2-5/16"		101012T	15040
101212	10041	1212	G		3/8"	0.467	2-3/8"		101212T	15041
STYLE 101 BOX SET										
100001	19000	All 41 Pieces in a Set (in Wooden Box)								

Straight Tooth

www.whitneytool.com

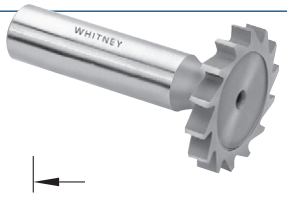
Allow one week delivery for TiN.

MADE IN THE USA

Ordering Information:
Please be sure to specify the quantity, style number, WTC or EDP number, diameter, and width requirement.

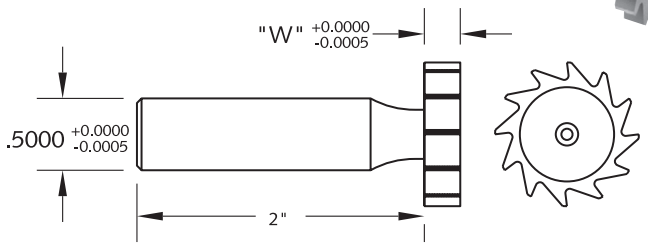
WHITNEY TOOL COMPANY, INC.

Whitney Woodruff Keyseat Milling Cutters



» STYLE 100 M42 COBALT/TiN 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

M42 Cobalt		American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	M42 Cobalt w/TiN	
WTC No.	EDP No.								WTC No.	EDP No.
102020M42	20001	202	201	1⁄4"	1⁄16"	0.105	2-1⁄16"	8	102020M42T	25001
102025M42	20002	202-1⁄2	206	5⁄16"			2-1⁄16"		102025M42T	25002
103025M42	20003	302-1⁄2	207		3⁄32"	0.120	2-3⁄32"		103025M42T	25003
102030M42	20004	203	211	3⁄8"	1⁄16"	0.105	2-1⁄16"		102030M42T	25004
103030M42	20005	303	212		3⁄32"	0.120	2-3⁄32"		103030M42T	25005
104030M42	20006	403	213		1⁄8"	0.150	2-1⁄8"		104030M42T	25006
102040M42	20007	204	1	1⁄2"	1⁄16"	0.130	2-1⁄16"	10	102040M42T	25007
103040M42	20008	304	2		3⁄32"	0.160	2-3⁄32"		103040M42T	25008
104040M42	20009	404	3		1⁄8"	0.191	2-1⁄8"		104040M42T	25009
103050M42	20010	305	4	5⁄8"	3⁄32"		2-3⁄32"		103050M42T	25010
104050M42	20011	405	5		1⁄8"	0.223	2-1⁄8"		104050M42T	25011
105050M42	20012	505	6		5⁄32"	0.252	2-5⁄32"		105050M42T	25012
106050M42	20013	605	61		3⁄16"	0.279	2-3⁄16"		106050M42T	25013
104060M42	20014	406	7	3⁄4"	1⁄8"	0.217	2-1⁄8"		104060M42T	25014
105060M42	20015	506	8		5⁄32"	0.246	2-5⁄32"		105060M42T	25015
106060M42	20016	606	9		3⁄16"	0.279	2-3⁄16"		106060M42T	25016
108060M42	20017	806	91		1⁄4"	0.342	2-1⁄4"		108060M42T	25017
105070M42	20018	507	10	7⁄8"	5⁄32"	0.246	2-5⁄32"	12	105070M42T	25018
106070M42	20019	607	11		3⁄16"	0.279	2-3⁄16"		106070M42T	25019
107070M42	20020	707	12		7⁄32"	0.312	2-7⁄32"		107070M42T	25020
108070M42	20021	807	A		1⁄4"	0.342	2-1⁄4"		108070M42T	25021
106080M42	20022	608	13	1"	3⁄16"	0.279	2-3⁄16"		106080M42T	25022
107080M42	20023	708	14		7⁄32"	0.312	2-7⁄32"		107080M42T	25023
108080M42	20024	808	15		1⁄4"	0.342	2-1⁄4"		108080M42T	25024
101008M42	20025	1008	B		5⁄16"	0.401	2-5⁄16"		101008M42T	25025
101208M42	20026	1208	152		3⁄8"	0.467	2-3⁄8"		101208M42T	25026
106090M42	20027	609	16	1-1⁄8"	3⁄16"	0.312	2-3⁄16"	14	106090M42T	25027
107090M42	20028	709	17		7⁄32"	0.342	2-7⁄32"		107090M42T	25028
108090M42	20029	809	18		1⁄4"	0.374	2-1⁄4"		108090M42T	25029
101009M42	20030	1009	C		5⁄16"	0.435	2-5⁄16"		101009M42T	25030
106100M42	20031	610	19	1-1⁄4"	3⁄16"	0.312	2-3⁄16"		106100M42T	25031
107100M42	20032	710	20		7⁄32"	0.342	2-7⁄32"		107100M42T	25032
108100M42	20033	810	21		1⁄4"	0.374	2-1⁄4"		108100M42T	25033
101010M42	20034	1010	D		5⁄16"	0.435	2-5⁄16"		101010M42T	25034
101210M42	20035	1210	E		3⁄8"	0.467	2-3⁄8"		101210M42T	25035
108110M42	20036	811	22	1-3⁄8"	1⁄4"	0.401	2-1⁄4"		108110M42T	25036
101011M42	20037	1011	23		5⁄16"	0.467	2-5⁄16"		101011M42T	25037
101211M42	20038	1211	F		3⁄8"		2-3⁄8"		101211M42T	25038
108120M42	20039	812	24	1-1⁄2"	1⁄4"	0.435	2-1⁄4"		108120M42T	25039
101012M42	20040	1012	25		5⁄16"	0.467	2-5⁄16"		101012M42T	25040
101212M42	20041	1212	G		3⁄8"		2-3⁄8"		101212M42T	25041
STYLE 101 BOX SET										
30000	19003	All 41 Pieces in a Set (in Wooden Box)								

Allow one week delivery for TiN.

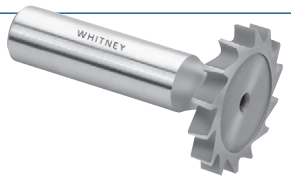
MADE IN THE USA

Straight Tooth

www.whitneytool.com

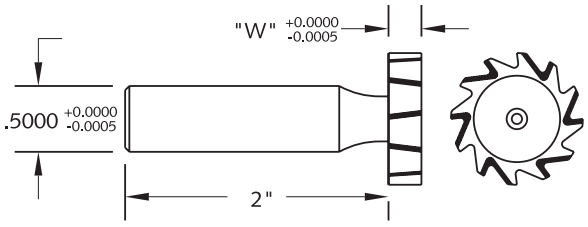
Ordering Information:
Please be sure to specify the quantity, style number, WTC or EDP number, diameter, and width requirement.

Whitney Woodruff Keyseat Milling Cutters



» STYLE 101 M4-HIGH SPEED STEEL/TiN 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

Staggered Tooth

www.whitneytool.com

M4-H.S.S.		American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	M4-H.S.S. w/TiN	
WTC No.	EDP No.								WTC No.	EDP No.
202020	10042	202	201	1⁄4"	1⁄16"	0.105	2-1⁄16"	6	202020T	15042
202025	10043	202-1⁄2	206	5⁄16"	1⁄16"	0.105	2-1⁄16"		202025T	15043
203025	10044	302-1⁄2	207		3⁄32"	0.120	2-3⁄32"		203025T	15044
202030	10045	203	211	3⁄8"	1⁄16"	0.105	2-1⁄16"		202030T	15045
203030	10046	303	212		3⁄32"	0.120	2-3⁄32"		203030T	15046
204030	10047	403	213		1⁄8"	0.150	2-1⁄8"		204030T	15047
202040	10048	204	1	1⁄2"	1⁄16"	0.130	2-1⁄16"	8	202040T	15048
203040	10049	304	2		3⁄32"	0.160	2-3⁄32"		203040T	15049
204040	10050	404	3		1⁄8"	0.191	2-1⁄8"		204040T	15050
203050	10051	305	4	5⁄8"	3⁄32"	0.191	2-3⁄32"		203050T	15051
204050	10052	405	5		1⁄8"	0.223	2-1⁄8"		204050T	15052
205050	10053	505	6		5⁄32"	0.252	2-5⁄32"		205050T	15053
206050	10054	605	61		3⁄16"	0.279	2-3⁄16"		206050T	15054
204060	10055	406	7	3⁄4"	1⁄8"	0.217	2-1⁄8"	10	204060T	15055
205060	10056	506	8		5⁄32"	0.246	2-5⁄32"		205060T	15056
206060	10057	606	9		3⁄16"	0.279	2-3⁄16"		206060T	15057
208060	10058	806	91		1⁄4"	0.342	2-1⁄4"		208060T	15058
205070	10059	507	10	7⁄8"	5⁄32"	0.246	2-5⁄32"		205070T	15059
206070	10060	607	11		3⁄16"	0.279	2-3⁄16"		206070T	15060
207070	10061	707	12		7⁄32"	0.312	2-7⁄32"		207070T	15061
208070	10062	807	A		1⁄4"	0.342	2-1⁄4"		208070T	15062
206080	10063	608	13	1"	3⁄16"	0.279	2-3⁄16"	12	206080T	15063
207080	10064	708	14		7⁄32"	0.312	2-7⁄32"		207080T	15064
208080	10065	808	15		1⁄4"	0.342	2-1⁄4"		208080T	15065
201008	10066	1008	B		5⁄16"	0.401	2-5⁄16"		201008T	15066
201208	10067	1208	152		3⁄8"	0.467	2-3⁄8"	10	201208T	15067
206090	10068	609	16	1-1⁄8"	3⁄16"	0.312	2-3⁄16"	12	206090T	15068
207090	10069	709	17		7⁄32"	0.342	2-7⁄32"		207090T	15069
208090	10070	809	18		1⁄4"	0.374	2-1⁄4"		208090T	15070
201009	10071	1009	C		5⁄16"	0.435	2-5⁄16"		201009T	15071
206100	10072	610	19	1-1⁄4"	3⁄16"	0.312	2-3⁄16"	14	206100T	15072
207100	10073	710	20		7⁄32"	0.342	2-7⁄32"		207100T	15073
208100	10074	810	21		1⁄4"	0.374	2-1⁄4"		208100T	15074
201010	10075	1010	D		5⁄16"	0.435	2-5⁄16"	12	201010T	15075
201210	10076	1210	E		3⁄8"	0.467	2-3⁄8"		201210T	15076
208110	10077	811	22	1-3⁄8"	1⁄4"	0.401	2-1⁄4"	14	208110T	15077
201011	10078	1011	23		5⁄16"	0.467	2-5⁄16"		201011T	15078
201211	10079	1211	F		3⁄8"	0.467	2-3⁄8"		201211T	15079
208120	10080	812	24	1-1⁄2"	1⁄4"	0.435	2-1⁄4"		208120T	15080
201012	10081	1012	25		5⁄16"	0.467	2-5⁄16"		201012T	15081
201212	10082	1212	G		3⁄8"	0.467	2-3⁄8"		201212T	15082
STYLE 101 BOX SET										
200000	19001	All 41 Piece in a Set (in Wooden Box)								

Allow one week delivery for TiN.

MADE IN THE USA

Ordering Information:

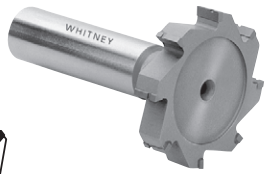
Whitney Woodruff Keyseat Carbide Tipped Milling Cutters

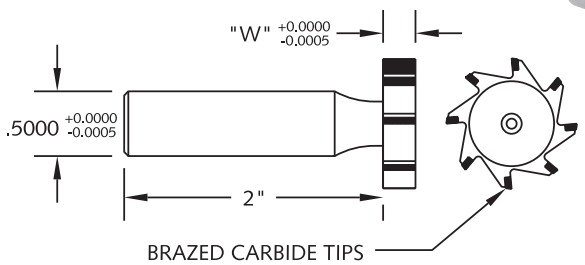
» STYLE 120 CARBIDE TIPPED/TiN COATED

» Micrograin Carbide or
Micrograin Carbide, TiN 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





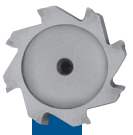
Style 120		American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	Style 120 w/TiN	
WTC No.	EDP No.								WTC No.	EDP No.
302040	30001	204	1	1/2"	1/16"	0.130	2-1/16"	6	302040T	35001
303040	30002	304	2		3/32"	0.160	2-3/32"		303040T	35002
304040	30003	404	3		1/8"	0.191	2-1/8"		304040T	35003
303050	30004	305	4	5/8"	3/32"	0.191	2-3/32"		303050T	35004
304050	30005	405	5		1/8"	0.223	2-1/8"		304050T	35005
305050	30006	505	6		5/32"	0.252	2-5/32"		305050T	35006
306050	30007	605	61		3/16"	0.279	2-3/16"		306050T	35007
304060	30008	406	7	3/4"	1/8"	0.217	2-1/8"		304060T	35008
305060	30009	506	8		5/32"	0.246	2-5/32"		305060T	35009
306060	30010	606	9		3/16"	0.279	2-3/16"		306060T	35010
308060	30011	806	91		1/4"	0.342	2-1/4"		308060T	35011
305070	30012	507	10	7/8"	5/32"	0.246	2-5/32"		305070T	35012
306070	30013	607	11		3/16"	0.279	2-3/16"		306070T	35013
307070	30014	707	12		7/32"	0.312	2-7/32"		307070T	35014
308070	30015	807	A		1/4"	0.342	2-1/4"		308070T	35015
306080	30016	608	13	1"	3/16"	0.279	2-3/16"	8	306080T	35016
307080	30017	708	14		7/32"	0.312	2-7/32"		307080T	35017
308080	30018	808	15		1/4"	0.342	2-1/4"		308080T	35018
301008	30019	1008	B		5/16"	0.401	2-5/16"		301008T	35019
301208	30020	1208	152		3/8"	0.467	2-3/8"		301208T	35020
306090	30021	609	16	1-1/8"	3/16"	0.312	2-3/16"		306090T	35021
307090	30022	709	17		7/32"	0.342	2-7/32"		307090T	35022
308090	30023	809	18		1/4"	0.374	2-1/4"		308090T	35023
301009	30024	1009	C		5/16"	0.435	2-5/16"		301009T	35024
306100	30025	610	19	1-1/4"	3/16"	0.312	2-3/16"		306100T	35025
307100	30026	710	20		7/32"	0.342	2-7/32"		307100T	35026
308100	30027	810	21		1/4"	0.374	2-1/4"		308100T	35027
301010	30028	1010	D		5/16"	0.435	2-5/16"		301010T	35028
301210	30029	1210	E		3/8"	0.467	2-3/8"		301210T	35029
308110	30030	811	22	1-3/8"	1/4"	0.401	2-1/4"		308110T	35030
301011	30031	1011	23		5/16"	0.467	2-5/16"		301011T	35031
301211	30032	1211	F		3/8"	0.467	2-3/8"		301211T	35032
308120	30033	812	24	1-1/2"	1/4"	0.435	2-1/4"		308120T	35033
301012	30034	1012	25		5/16"	0.467	2-5/16"		301012T	35034
301212	30035	1212	G		3/8"	0.467	2-3/8"		301212T	35035

Allow one week delivery for TiN.

MADE IN THE USA

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.

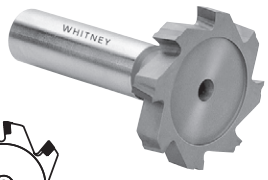
Ordering Information:
Please be sure to specify the quantity, style number, WTC or EDP number, diameter and width requirement.

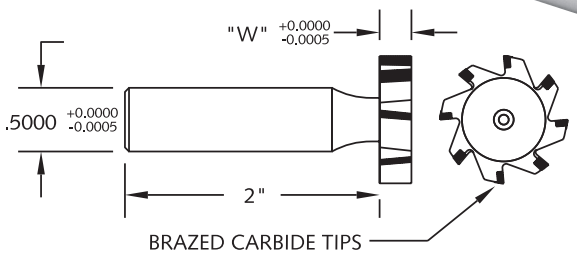


Whitney Woodruff Keyseat Carbide Tipped Milling Cutters

» STYLE 121 CARBIDE TIPPED/TiN 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

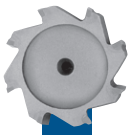
Style 121		American Standard No.	Old Standard No.	Diameter	Width	Neck Dia.	Overall Length	No. of Teeth	Style 121 w/TiN	
WTC No.	EDP No.								WTC No.	EDP No.
352040	30036	204	1	1/2"	1/16"	0.130	2-1/16"	6	352040T	35036
353040	30037	304	2		3/32"	0.160	2-3/32"		353040T	35037
354040	30038	404	3		1/8"	0.191	2-1/8"		354040T	35038
353050	30039	305	4	5/8"	3/32"	0.191	2-3/32"		353050T	35039
354050	30040	405	5		1/8"	0.223	2-1/8"		354050T	35040
355050	30041	505	6		5/32"	0.252	2-5/32"		355050T	35041
356050	30042	605	61		3/16"	0.279	2-3/16"		356050T	35042
354060	30043	406	7	3/4"	1/8"	0.217	2-1/8"		354060T	35043
355060	30044	506	8		5/32"	0.246	2-5/32"		355060T	35044
356060	30045	606	9		3/16"	0.279	2-3/16"		356060T	35045
358060	30046	806	91		1/4"	0.342	2-1/4"		358060T	35046
355070	30047	507	10	7/8"	5/32"	0.246	2-5/32"		355070T	35047
356070	30048	607	11		3/16"	0.279	2-3/16"		356070T	35048
357070	30049	707	12		7/32"	0.312	2-7/32"		357070T	35049
358070	30050	807	A		1/4"	0.342	2-1/4"		358070T	35050
356080	30051	608	13	1"	3/16"	0.279	2-3/16"	8	356080T	35051
357080	30052	708	14		7/32"	0.312	2-7/32"		357080T	35052
358080	30053	808	15		1/4"	0.342	2-1/4"		358080T	35053
351008	30054	1008	B		5/16"	0.401	2-5/16"		351008T	35054
351208	30055	1208	152		3/8"	0.467	2-3/8"		351208T	35055
356090	30056	609	16	1-1/8"	3/16"	0.312	2-3/16"		356090T	35056
357090	30057	709	17		7/32"	0.342	2-7/32"		357090T	35057
358090	30058	809	18		1/4"	0.374	2-1/4"		358090T	35058
351009	30059	1009	C		5/16"	0.435	2-5/16"		351009T	35059
356100	30060	610	19	1-1/4"	3/16"	0.312	2-3/16"		356100T	35060
357100	30061	710	20		7/32"	0.342	2-7/32"		357100T	35061
358100	30062	810	21		1/4"	0.374	2-1/4"		358100T	35062
351010	30063	1010	D		5/16"	0.435	2-5/16"		351010T	35063
351210	30064	1210	E		3/8"	0.467	2-3/8"		351210T	35064
358110	30065	811	22	1-3/8"	1/4"	0.401	2-1/4"		358110T	35065
351011	30066	1011	23		5/16"	0.467	2-5/16"		351011T	35066
351211	30067	1211	F		3/8"	0.467	2-3/8"		351211T	35067
358120	30068	812	24	1-1/2"	1/4"	0.435	2-1/4"		358120T	35068
351012	30069	1012	25		5/16"	0.467	2-5/16"		351012T	35069
351212	30070	1212	G		3/8"	0.467	2-3/8"		351212T	35070

Allow one week delivery for TiN.

MADE IN THE USA

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, style number, WTC or EDP number, diameter, and width requirement.



Staggered Tooth

www.whitneytool.com

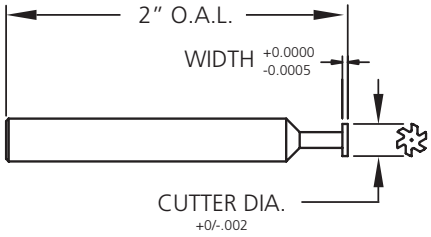
Whitney Small Solid Carbide Keyseat Cutters

» SOLID CARBIDE

- » 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



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

Allow one week delivery for TiN.

MADE IN THE USA

» SOLID CARBIDE, DECIMAL WIDTH

Solid Carbide WTC No.	Cutter Dia.	Width Range	Shank Size	Solid Carbide w/TiN WTC No.
SC48 + width*	1/8"	1⁄64" thru 1⁄16"	1⁄4"	SC48 + width*T
SC49 + width*	3/16"	1⁄64" thru 1⁄16"		SC49 + width*T
SC50 + width*	1/4"	1⁄64" thru 1⁄16"		SC50 + width*T
SC51 + width*	5/16"	1⁄64" thru 3⁄32"	3⁄8"	SC51 + width*T
SC52 + width*	3/8"	1⁄64" thru 1⁄8"		SC52 + width*T

** Add width's 4 place decimal to WTC No.*
(example: 1⁄4" diameter by .0155" wide = WTC No. SC50.0155)

One week delivery for uncoated.
Allow two week delivery for TiN.

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

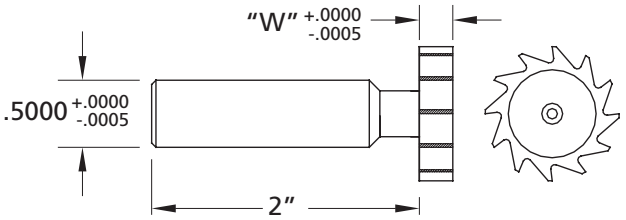
Whitney Solid Carbide Woodruff Keyseat Cutters

» SOLID CARBIDE HEAD/SOLID CARBIDE

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

Standard Width Tolerance -.0005



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

Allow one week delivery for TiN.

MADE IN THE USA

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

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

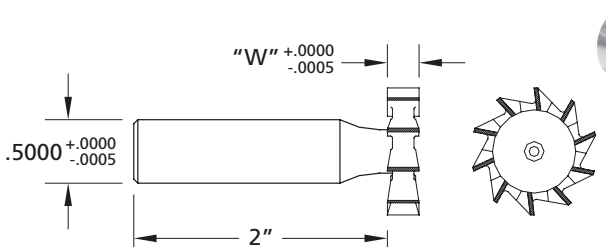
Whitney Deep Slotting Cutters with Side Cutting Teeth

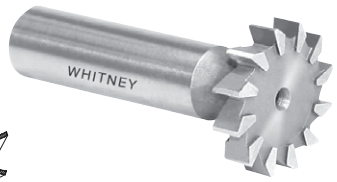
» HIGH SPEED STEEL

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

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





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.	TiN EDP No.					No. of Teeth	Uncoated EDP No.	TiN EDP No.
12	10650	15650	1"	3/16"	7/32"	1/2" R.	6	10666	15666
	10651	15651		1/4"	11/32"	21/32" 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"		10	10674	15674
	10659	15659		1/4"	15/32"			10675	15675
12	10660	15660		5/16"				10676	15676
	10661	15661		3/8"				10677	15677
16	10662	15662	2"	3/16"			12	10678	15678
	10663	15663		1/4"				10679	15679
	10664	15664		5/16"				10680	15680
	10665	15665		3/8"				10681	15681

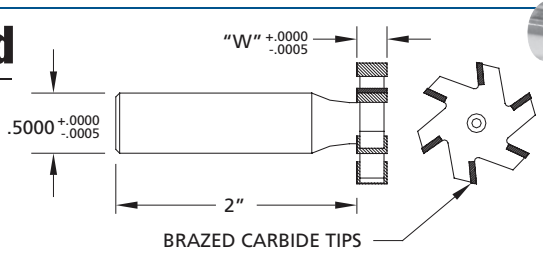
Allow one week for delivery for TiN.

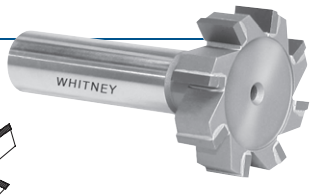
Whitney Carbide Tipped

» Increased Cutting Speed
» Longer Tool Life

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

Standard Width Tolerance -.0005



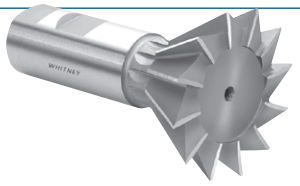


5° Radial Rake for Cutting Ferrous Material			Cutter Diameter	Cutter Width	Neck Diameter	Neck Form	10° Radial Rake for Cutting Non-Ferrous Material		
No. of Teeth	Carbide Tipped EDP No.	TiN EDP No.					No. of Teeth	Carbide Tipped EDP No.	TiN EDP No.
6	30450	35450	1"	3/16"	7/32"	1/2" R.	4	30466	35466
	30451	35451		1/4"	11/32"	21/32" 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"			30474	35474
	30459	35459		1/4"	15/32"			30475	35475
	30460	35460		5/16"	15/32"			30476	35476
	30461	35461		3/8"	15/32"			30477	35477
12	30462	35462	2"	3/16"	15/32"		8	30478	35478
	30463	35463		1/4"	15/32"			30479	35479
	30464	35464		5/16"	15/32"			30480	35480
	30465	35465		3/8"	15/32"			30481	35481

Allow one week for delivery for TiN.

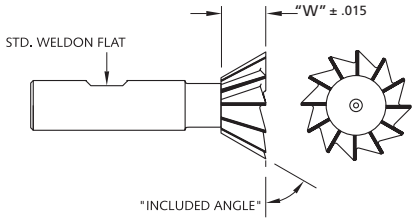
Ordering Information:
Please be sure to specify the quantity, EDP number, diameter and width requirement.

Whitney Dovetail Milling Cutters



» HIGH SPEED STEEL/M42 COBALT/TiN COATED

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



Diameter Tolerances:
Dia. +/-.010
Angle: +/- (1/4°)

Standard Width Tolerance ±.0150

H.S.S.		Cutter Diamter	Included Angle	Cutter Width	Shank Diameter	Overall Length	No. of Teeth	H.S.S. w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
901245	10597	1/8"	45°	.040"	1/4"	2"	4	901245T	15597
901845	10599	3/16"		3/64"				901845T	15599
902545	10600	1/4"		1/16"			6	902545T	15600
903745	10260	3/8"		1/8"	3/8"	2-1/8"	6	903745T	15260
905045	10261	1/2"		1/8"			8	905045T	15261
907545	10262	3/4"		3/16"				907545T	15262
910045	10263	1"		1/4"	1/2"	2-1/2"	10	910045T	15263
913745	10264	1-3/8"		3/8"	5/8"	2-7/8"		913745T	15264
918745	10265	1-7/8"		1/2"	7/8"	3-1/4"	12	918745T	15265
922545	10266	2-1/4"		11/16"	1"	3-3/4"		922545T	15266
925045	10267	2-1/2"		3/4"				925045T	15267
901260	10612	1/8"	60°	1/16"	1/4"	2"	4	901260T	15612
901860	10614	3/16"		3/32"				901860T	15614
902560	10615	1/4"		1/8"			6	902560T	15615
903760	10268	3/8"		3/16"	3/8"	2-1/8"	8	903760T	15268
905060	10269	1/2"		7/32"				905060T	15269
907560	10270	3/4"		5/16"				907560T	15270
910060	10271	1"		7/16"	1/2"	2-1/2"	10	910060T	15271
913760	10272	1-3/8"		9/16"	5/8"	2-7/8"	12	913760T	15272
918760	10273	1-7/8"		13/16"	7/8"	3-1/4"		918760T	15273
922560	10274	2-1/4"		1-1/16"	1"	3-3/4"		922560T	15274
925060	10275	2-1/2"		1-1/8"				925060T	15275

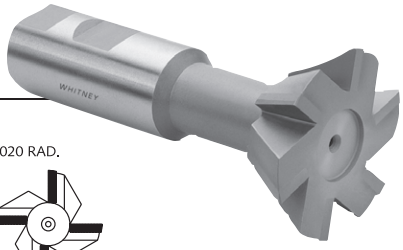
M42 Cobalt		Cutter Diamter	Included Angle	Cutter Width	Shank Diameter	Overall Length	No. of Teeth	M42 Cobalt w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
901245M42	20597	1/8"	45°	.040"	1/4"	2"	4	901245M42T	25597
901845M42	20599	3/16"		3/64"				901845M42T	25599
902545M42	20600	1/4"		1/16"			6	902545M42T	25600
903745M42	20260	3/8"		1/8"	3/8"	2-1/8"	6	903745M42T	25260
905045M42	20261	1/2"		1/8"			8	905045M42T	25261
907545M42	20262	3/4"		3/16"				907545M42T	25262
910045M42	20263	1"		1/4"	1/2"	2-1/2"	10	910045M42T	25263
913745M42	20264	1-3/8"		3/8"	5/8"	2-7/8"		913745M42T	25264
918745M42	20265	1-7/8"		1/2"	7/8"	3-1/4"	12	918745M42T	25265
922545M42	20266	2-1/4"		11/16"	1"	3-3/4"		922545M42T	25266
925045M42	20267	2-1/2"		3/4"				925045M42T	25267
901260M42	20614	1/8"	60°	1/16"	1/4"	2"	4	901260M42T	25614
901860M42	20615	3/16"		3/32"				901860M42T	25615
902560M42	20616	1/4"		1/8"			6	902560M42T	25616
903760M42	20268	3/8"		3/16"	3/8"	2-1/8"	8	903760M42T	25268
905060M42	20269	1/2"		7/32"				905060M42T	25269
907560M42	20270	3/4"		5/16"				907560M42T	25270
910060M42	20271	1"		7/16"	1/2"	2-1/2"	10	910060M42T	25271
913760M42	20272	1-3/8"		9/16"	5/8"	2-7/8"	12	913760M42T	25272
918760M42	20273	1-7/8"		13/16"	7/8"	3-1/4"		918760M42T	25273
922560M42	20274	2-1/4"		1-1/16"	1"	3-3/4"		922560M42T	25274
925060M42	20275	2-1/2"		1-1/8"				925060M42T	25275

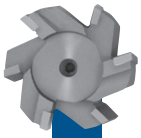
Allow one week delivery for TiN

MADE IN THE USA

Ordering Information:
Please be sure to specify the quantity, WTC or EDP number, diameter, angle and width requirement.

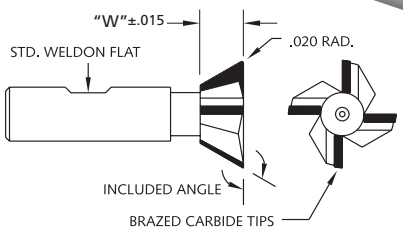
Whitney Dovetail Milling Cutters





» CARBIDE TIPPED/TiN COATED

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



Tolerance on Angle: +/- 1/4° (15min.)

Standard Width Tolerance ±.0150

Carbide		Cutter Dia.	Included Angle	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	Carbide w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
C901245*	30400	1/8″	45°	.040″	1/4″	2″	2	C901245T*	35400
C901845*	30401	3/16″		3/64″				C901845T*	35401
C902545*	30402	1/4″		1/16″				C902545T*	35402
C903745*	30288	3/8″		1/8″	3/8″	2-1/8″	3	C903745T*	35288
C905045	30071	1/2″		5/32″				C905045T	35071
C907545	30072	3/4″		1/4″		2-1/4″		C907545T	35072
C910045	30073	1″		5/16″	1/2″	2-1/2″	4	C910045T	35073
C912545	30074	1-1/4″		5/16″	5/8″	2-3/4″		C912545T	35074
C915045	30075	1-1/2″		1/2″	3/4″	3-1/4″		C915045T	35075
C920045	30076	2″		5/8″	1″	4-1/4″	6	C920045T	35076
C925045	30077	2-1/2″		3/4″	1-1/4″	4-3/8″		C925045T	35077
C930045	30078	3″		1″		4-1/2″		C930045T	35078
C901260*	30403	1/8″	60°	1/16″	1/4″	2″	2	C901260T*	35403
C901860*	30404	3/16″		3/32″				C901860T*	35404
C902560*	30405	1/4″		1/8″				C902560T*	35405
C903760*	30289	3/8″		3/16″	3/8″	2-1/8″	3	C903760T*	35289
C905060	30079	1/2″		7/32″				C905060T	35079
C907560	30080	3/4″		1/4″		2-1/4″		C907560T	35080
C910060	30081	1″		3/8″	1/2″	2-1/2″	4	C910060T	35081
C912560	30082	1-1/4″		1/2″	5/8″	2-3/4″		C912560T	35082
C915060	30083	1-1/2″		5/8″	3/4″	3-1/4″		C915060T	35083
C920060	30084	2″		3/4″	1″	4-1/4″	6	C920060T	35084
C925060	30085	2-1/2″		7/8″	1-1/4″	4-3/8″		C925060T	35085
C930060	30086	3″		1-1/8″		4-1/2″		C930060T	35086

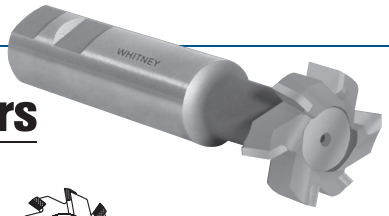
**1/8" to 3/8" Diameter will be Solid Carbide 1/2" to 3" Diameter will be Carbide Tipped*

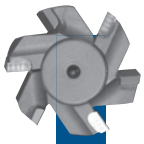
Allow one week delivery for TiN.

Straight Tooth

www.whitneytool.com

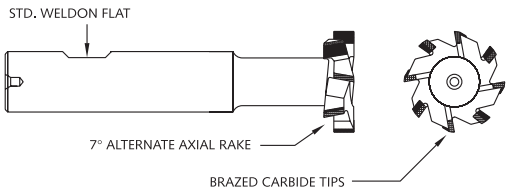
Whitney Carbide Tipped T-Slot Milling Cutters





» CARBIDE TIPPED/TiN COATED

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



Tolerances:

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

Carbide		Bolt Size	Cutter Dia.	Cutter Width	Neck Dia.	Overall Length	Shank Dia.	Undercut Length	No. of Teeth	Carbide w/TiN	
WTC No.	EDP No.									WTC No.	EDP No.
C802500	30087	1/4″	9/16″	15/64″	17/64″	2-19/32″	1/2″	35/64″	6	C802500T	35087
C803125	30088	5/16″	21/32″	17/64″	21/64″	2-11/16″		39/64″		C803125T	35088
C803750	30089	3/8″	25/32″	21/64″	13/32″	3-1/4″	3/4″	55/64″		C803750T	35089
C805000	30090	1/2″	31/32″	25/64″	17/32″	3-7/16″		63/64″		C805000T	35090
C806250	30091	5/8″	1-1/4″	31/64″	21/32″	3-15/16″	1″	1-9/64″		C806250T	35091
C807500	30092	3/4″	1-15/32″	5/8″	25/32″	4-7/16″		1-1/2″		C807500T	35092
C810000	30093	1″	1-27/32″	53/64″	1-1/32″	4-13/16″	1-1/4″	1-43/64″	8	C810000T	35093
C812500	30094	1-1/4″	2-7/32″	1-3/32″	1-7/32″	5-3/8″		1-31/32″		C812500T	35094
C815000	30095	1-1/2″	2-21/32″	1-11/32″	1-17/32″	5-29/32″		2-1/8″		C815000T	35095

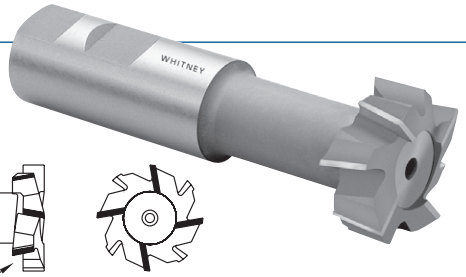
Carbide tipped T-slot cutters are a rugged design with free cutting features. The cutters have positive radial rake, right and left hand axial rake, with alternate side cutting teeth for maximum chip clearance.

Allow one week delivery for TiN.

Staggered Tooth

MADE IN THE USA

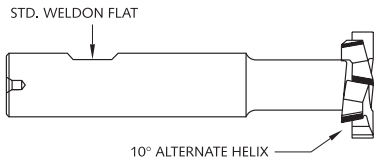
Whitney H.S.S. T-Slot Milling Cutters



» HIGH SPEED STEEL/M42 COBALT

» Right Hand Cut
» Weldon Shank

Tolerances:
Dia. +0.0/-.010 Width +0.0/-.005



Staggered Tooth

www.whitneytool.com

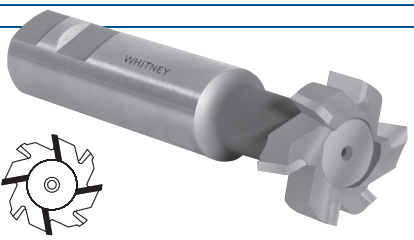
H.S.S.		Bolt	Cutter	Cutter	Neck	Overall	Shank	Undercut	No. of	H.S.S. w/TiN	
WTC No.	EDP No.	Size	Dia.	Width	Dia.	Length	Dia.	Length	Teeth	WTC No.	EDP No.
802500	10276	1/4"	9/16"	15/64"	17/64"	2-19/32"	1/2"	35/64"	8	802500T	16276
803125	10277	5/16"	21/32"	17/64"	21/64"	2-11/16"		39/64"		803125T	16277
803750	10278	3/8"	25/32"	21/64"	13/32"	3-1/4"	3/4"	55/64"		803750T	16278
805000	10279	1/2"	31/32"	25/64"	17/32"	3-7/16"		63/64"		805000T	16279
806250	10280	5/8"	1-1/4"	31/64"	21/32"	3-15/16"	1"	1--9/64"		806250T	16280
807500	10281	3/4"	1-15/32"	5/8"	25/32"	4-7/16"		1-1/2"		807500T	16281
810000	10282	1"	1-27/32"	53/64"	11/32"	4-13/16"	1-1/4"	1-43/64"	12	810000T	16282
812500	10283	1-1/4"	2-7/32"	1-3/32"	17/32"	5-3/8"		1-31/32"		812500T	16283
815000	10284	1-1/2"	2-21/32"	1-11/32"	1-17/32"	5-29/32"		2-1/8"		815000T	16284

M42 Cobalt		Bolt	Cutter	Cutter	Neck	Overall	Shank	Undercut	No. of	M42 Cobalt w/TiN	
WTC No.	EDP No.	Size	Dia.	Width	Dia.	Length	Dia.	Length	Teeth	WTC No.	EDP No.
802500M42	15276	1/4"	9/16"	15/64"	17/64"	2-19/32"	1/2"	35/64"	8	802500M42T	25276
803125M42	15277	5/16"	21/32"	17/64"	21/64"	2-11/16"		39/64"		803125M42T	25277
803750M42	15278	3/8"	25/32"	21/64"	13/32"	3-1/4"	3/4"	55/64"		803750M42T	25278
805000M42	15279	1/2"	31/32"	25/64"	17/32"	3-7/16"		63/64"		805000M42T	25279
806250M42	15280	5/8"	1-1/4"	31/64"	21/32"	3-15/16"	1"	1--9/64"		806250M42T	25280
807500M42	15281	3/4"	1-15/32"	5/8"	25/32"	4-7/16"		1-1/2"		807500M42T	25281
810000M42	15282	1"	1-27/32"	53/64"	11/32"	4-13/16"	1-1/4"	1-43/64"	12	810000M42T	25282
812500M42	15283	1-1/4"	2-7/32"	1-3/32"	17/32"	5-3/8"		1-31/32"		812500M42T	25283
815000M42	15284	1-1/2"	2-21/32"	1-11/32"	1-17/32"	5-29/32"		2-1/8"		815000M42T	25284

Allow one week delivery for TiN.

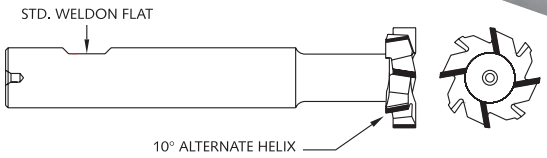
High speed steel and M42 cobalt T-slot cutters are a rugged design with free cutting features.
The cutters have positive radial rake, right and left hand spiral, with alternate side cutting teeth for maximum chip clearance.

Whitney Long Shank T-Slot Milling Cutters

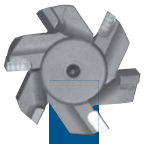


» CARBIDE TIPPED

» 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

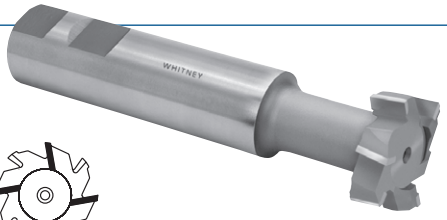


Staggered Tooth

Carbide		Head Dia.	Head	Shank	Neck Dia. x L	Overall	No. of	Carbide w/TiN	
WTC No.	EDP No.	O.D.	Width	Dia.		Length	Teeth	WTC No.	EDP No.
LTS3208C	30500	1"	1/8"	5/8"	.437 x 1"	4-15/16"	8	LTS3208CT	35500
LTS3212C	30501		3/16"					LTS3212CT	35501
LTS3216C	30502		1/4"					LTS3216CT	35502
LTS3220C	30503		5/16"					LTS3220CT	35503
LTS3224C	30504		3/8"					LTS3224CT	35504
LTS3232C	30505		1/2"					LTS3232CT	35505
LTS3240C	30506		5/8"					LTS3240CT	35506
LTS4008C	30507	1-1/4"	1/8"	3/4"	.593 x 1-1/8"	5-1/8"		LTS4008CT	35507
LTS4012C	30508		3/16"					LTS4012CT	35508
LTS4016C	30509		1/4"					LTS4016CT	35509
LTS4020C	30510		5/16"					LTS4020CT	35510
LTS4024C	30511		3/8"					LTS4024CT	35511
LTS4032C	30512		1/2"					LTS4032CT	35512
LTS4040C	30513		5/8"					LTS4040CT	35513
LTS4808C	30514	1-1/2"	1/8"	1"	.718 x 1-11/32"	5-5/16"		LTS4808CT	35514
LTS4812C	30515		3/16"					LTS4812CT	35515
LTS4816C	30516		1/4"					LTS4816CT	35516
LTS4820C	30517		5/16"					LTS4820CT	35517
LTS4824C	30518		3/8"					LTS4824CT	35518
LTS4832C	30519		1/2"					LTS4832CT	35519
LTS4840C	30520		5/8"					LTS4840CT	35520
LTS6412C	30521	2"	3/16"		.796 x 1-9/16"	5-11/16"	10	LTS6412CT	35521
LTS6416C	30522		1/4"					LTS6416CT	35522
LTS6420C	30523		5/16"					LTS6420CT	35523
LTS6424C	30524		3/8"					LTS6424CT	35524
LTS6432C	30525		1/2"					LTS6432CT	35525
LTS6440C	30526		5/8"					LTS6440CT	35526
LTS6448C	30527		3/4"					LTS6448CT	35527

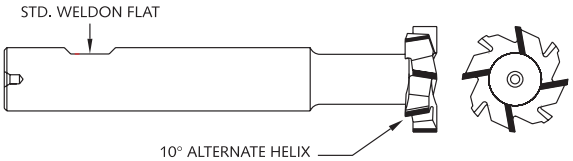
Allow one week delivery for TiN.

Whitney Long Shank T-Slot Milling Cutters



» HIGH SPEED STEEL/M42 COBALT

» 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

H.S.S.		Head Dia "O.D."	Head Width	Shank Dia.	Neck Dia. x L	Overall Length	No. of Teeth	H.S.S. w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
LTS3208	10294	1"	1⁄8"	5⁄8"	.437 x 1"	4-15⁄16"	8	LTS3208T	15294
LTS3212	10295		3⁄16"					LTS3212T	15295
LTS3216	10296		1⁄4"					LTS3216T	15296
LTS3220	10297		5⁄16"					LTS3220T	15297
LTS3224	10298		3⁄8"					LTS3224T	15298
LTS3232	10299		1⁄2"					LTS3232T	15299
LTS3240	10300		5⁄8"					LTS3240T	15300
LTS4008	10301	1-1⁄4"	1⁄8"	3⁄4"	.593 x 1-1⁄8"	5-1⁄8"		LTS4008T	15301
LTS4012	10302		3⁄16"					LTS4012T	15302
LTS4016	10303		1⁄4"					LTS4016T	15303
LTS4020	10304		5⁄16"					LTS4020T	15304
LTS4024	10305		3⁄8"					LTS4024T	15305
LTS4032	10306		1⁄2"					LTS4032T	15306
LTS4040	10307		5⁄8"					LTS4040T	15307
LTS4808	10308	1-1⁄2"	1⁄8"	1"	.718 x 1-11⁄32"	5-5⁄16"		LTS4808T	15308
LTS4812	10309		3⁄16"					LTS4812T	15309
LTS4816	10310		1⁄4"					LTS4816T	15310
LTS4820	10311		5⁄16"					LTS4820T	15311
LTS4824	10312		3⁄8"					LTS4824T	15312
LTS4832	10313		1⁄2"					LTS4832T	15313
LTS4840	10314		5⁄8"					LTS4840T	15314
LTS6412	10315	2"	3⁄16"		.796 x 1-9⁄16"	5-11⁄16"	10	LTS6412T	15315
LTS6416	10316		1⁄4"					LTS6416T	15316
LTS6420	10317		5⁄16"					LTS6420T	15317
LTS6424	10318		3⁄8"					LTS6424T	15318
LTS6432	10319		1⁄2"					LTS6432T	15319
LTS6440	10320		5⁄8"					LTS6440T	15320
LTS6448	10321		3⁄4"					LTS6448T	15321

M42 Cobalt		Head Dia "O.D."	Head Width	Shank Dia.	Neck Dia. x L	Overall Length	No. of Teeth	M42 Cobalt w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
LTS3208M42	20294	1"	1⁄8"	5⁄8"	.437 x 1"	4-15⁄16"	8	LTS3208M42T	25294
LTS3212M42	20295		3⁄16"					LTS3212M42T	25295
LTS3216M42	20296		1⁄4"					LTS3216M42T	25296
LTS3220M42	20297		5⁄16"					LTS3220M42T	25297
LTS3224M42	20298		3⁄8"					LTS3224M42T	25298
LTS3232M42	20299		1⁄2"					LTS3232M42T	25299
LTS3240M42	20300		5⁄8"					LTS3240M42T	25300
LTS4008M42	20301	1-1⁄4"	1⁄8"	3⁄4"	.593 x 1-1⁄8"	5-1⁄8"		LTS4008M42T	25301
LTS4012M42	20302		3⁄16"					LTS4012M42T	25302
LTS4016M42	20303		1⁄4"					LTS4016M42T	25303
LTS4020M42	20304		5⁄16"					LTS4020M42T	25304
LTS4024M42	20305		3⁄8"					LTS4024M42T	25305
LTS4032M42	20306		1⁄2"					LTS4032M42T	25306
LTS4040M42	20307		5⁄8"					LTS4040M42T	25307
LTS4808M42	20308	1-1⁄2"	1⁄8"	1"	.718 x 1-11⁄32"	5-5⁄16"		LTS4808M42T	25308
LTS4812M42	20309		3⁄16"					LTS4812M42T	25309
LTS4816M42	20310		1⁄4"					LTS4816M42T	25310
LTS4820M42	20311		5⁄16"					LTS4820M42T	25311
LTS4824M42	20312		3⁄8"					LTS4824M42T	25312
LTS4832M42	20313		1⁄2"					LTS4832M42T	25313
LTS4840M42	20314		5⁄8"					LTS4840M42T	25314
LTS6412M42	20315	2"	3⁄16"		.796 x 1-9⁄16"	5-11⁄16"	10	LTS6412M42T	25315
LTS6416M42	20316		1⁄4"					LTS6416M42T	25316
LTS6420M42	20317		5⁄16"					LTS6420M42T	25317
LTS6424M42	20318		3⁄8"					LTS6424M42T	25318
LTS6432M42	20319		1⁄2"					LTS6432M42T	25319
LTS6440M42	20320		5⁄8"					LTS6440M42T	25320
LTS6448M42	20321		3⁄4"					LTS6448M42T	25321

Staggered Tooth

www.whitneytool.com

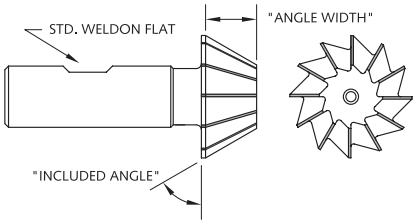
Allow one week delivery for TiN.

MADE IN THE USA

Whitney Single Angle Chamfer Milling Cutters

» HIGH SPEED STEEL/TiN COATED

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



Tolerance on Angle: +/- 1/4° (15min.)

Standard Diameter Tolerance ±.015

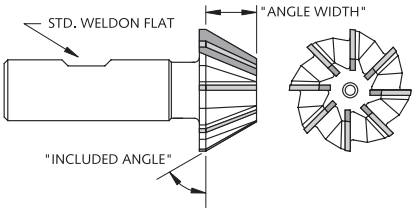
H.S.S.		Included Angle	Cutter Dia.	Angle Width	Overall Length	Shank Dia.	No. of Teeth	H.S.S. w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
CH2545	10750	45°	1/4"	3/32"	2-1/8"	3/8"	6	CH2545T	15750
CH3145	10751		5/16"	1/8"				CH3145T	15751
CH3845	10752		3/8"	5/32"				CH3845T	15752
CH5045	10322		1/2"	1/8"			8	CH5045T	15322
CH7545	10323		3/4"	3/16"				CH7545T	15323
CH10045	10324		1"	5/16"	2-1/2"	1/2"	10	CH10045T	15324
CH15045	10325		1-1/2"	1/2"	2-3/4"	3/4"	12	CH15045T	15325
CH2560	10753	60°	1/4"	5/32"	2-1/8"	3/8"	6	CH2560T	15753
CH3160	10754		5/16"	7/32"				CH3160T	15754
CH3860	10755		3/8"	17/64"				CH3860T	15755
CH5060	10326		1/2"	7/32"			8	CH5060T	15326
CH7560	10327		3/4"	5/16"				CH7560T	15327
CH10060	10328		1	7/16"	2-1/2"	1/2"	10	CH10060T	15328
CH15060	10329		1-1/2"	5/8"	2-3/4"	3/4"	12	CH15060T	15329

Allow one week delivery for TiN

MADE IN THE USA

Whitney Carbide Tipped

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



Tolerance on Angle: +/- 1/4° (15min.)

Standard Diameter Tolerance ±.015

Carbide Tipped		Included Angle	Cutter Dia.	Angle Width	Overall Length	Shank Dia.	No. of Teeth	Carbide Tipped w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
CH2545C*	30600	45°	1/4"	3/32"	2"	1/4"	4	CH2545CT*	35600
CH3145C*	30601		5/16"	1/8"		3/8"		CH3145CT*	35601
CH3845C*	30602		3/8"	5/32"		3/8"		CH3845CT*	35602
CH5045C	30096		1/2"	1/8"	2-1/8"	3/8"		CH5045CT	35603
CH7545C	30097		3/4"	3/16"		3/8"	6	CH7545CT	35604
CH10045C	30098		1"	5/16"	2-1/2"	1/2"		CH10045CT	35605
CH15045C	30099		1-1/2"	1/2"	2-3/4"	3/4"	8	CH15045CT	35606
CH2560C*	30603	60°	1/4"	5/32"	2"	1/4"	4	CH2560CT*	35607
CH3160C*	30604		5/16"	7/32"		3/8"		CH3160CT*	35608
CH3860C*	30605		3/8"	17/64"		3/8"		CH3860CT*	35609
CH5060C	30100		1/2"	7/32"	2-1/8"	3/8"		CH5060CT	35610
CH7560C	30101		3/4"	5/16"		3/8"	6	CH7560CT	35611
CH10060C	30102		1	7/16"	2-1/2"	1/2"		CH10060CT	35612
CH15060C	30103		1-1/2"	5/8"	2-3/4"	3/4"	8	CH15060CT	35613

**Solid Carbide*

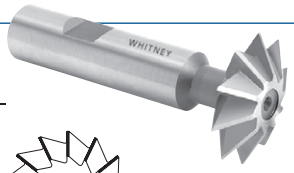
Allow one week delivery for TiN.

Single Angle

P: 800-536-1971 » F: 812-275-6458

Ordering Information:
Please be sure to specify the quantity, WTC or EDP number, diameter, included angle and material.

Whitney Double Angle Chamfer Milling Cutters

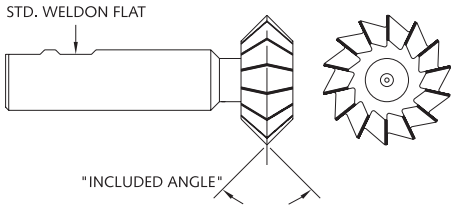


» HIGH SPEED STEEL/TiN COATED

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

Tolerance on Angle: +/- 1/4° (15min.)

Standard Diameter Tolerance ±.015



H.S.S.		Included Angle	Cutter Dia.	Cutter Width	Overall Length	Shank Dia.	No. of Teeth	H.S.S. w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
DA3160	10801	60°	5/16"	7/64"	2-3/8"	3/8"	6	DA3160T	15801
DA3860	10802		3/8"	9/64"				DA3860T	15802
DA5060	10803		1/2"	5/32"				DA5060T	15803
DA7560	10330		3/4"	3/16"			8	DA7560T	15330
DA10060	10331		1"	5/16"	2-27/32"	1/2"	10	DA10060T	15331
DA137560	10332		1-3/8"	7/16"	3-7/32"	5/8"		DA137560T	15332
DA150060	10333		1-1/2"	1/2"	3-3/8"			DA150060T	15333
DA187560	10334		1-7/8"	5/8"	3-25/32"	3/4"	14	DA187560T	15334
DA225060	10335		2-1/4"	3/4"	4-5/32"	7/8"	16	DA225060T	15335
DA3190	10804	90°	5/16"	1/8"	2-3/8"	3/8"	6	DA3190T	15810
DA3890	10805		3/8"	5/32"				DA3890T	15811
DA5090	10806		1/2"	3/16"			8	DA5090T	15812
DA7590	10336		3/4"	1/4"	2-7/16"		10	DA7590T	15336
DA10090	10337		1"	3/8"	2-29/32"	1/2"		DA10090T	15337
DA137590	10338		1-3/8"	1/2"	3-9/32"	5/8"	12	DA137590T	15338
DA150090	10339		1-1/2"	9/16"	3-7/16"	5/8"		DA150090T	15339
DA187590	10340		1-7/8"	5/8"	3-25/32"	3/4"	14	DA187590T	15340
DA225090	10341		2-1/4"	3/4"	4-5/32"	7/8"	16	DA225090T	15340

Allow one week delivery for TiN.

Double Angle

www.whitneytool.com

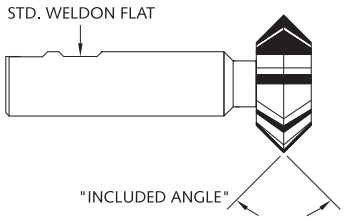
MADE IN THE USA

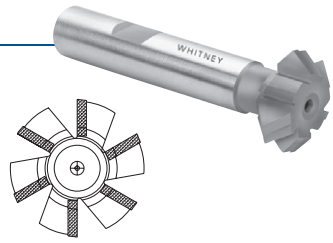
» CARBIDE TIPPED/TiN COATED

- » General Purpose Carbide
- » Weldon Shank

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

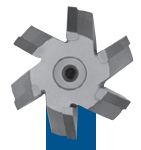
NOTE: .010/.020 Radius on O.D.





Carbide Tipped		Included Angle	Cutter Dia.	Cutter Width	Overall Length	Shank Dia.	No. of Teeth	Carbide Tipped w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
DA3160C*	30651	60°	5/16"	7/64"	2-3/8"	5/16"	6	DA3160CT*	35651
DA3860C*	30652		3/8"	9/64"	2-3/8"	3/8"		DA3860CT*	35652
DA5060C*	30653		1/2"	5/32"	2-3/8"	1/2"		DA5060CT*	35653
DA7560C	30104		3/4"	3/16"	2-3/8"	3/8"		DA7560CT	35104
DA10060C	30105		1"	5/16"	2-27/32"	1/2"		DA10060CT	35105
DA137560C	30106		1-3/8"	7/16"	3-7/32"	5/8"		DA137560CT	35106
DA150060C	30107		1-1/2"	1/2"	3-3/8"	5/8"		DA150060CT	35107
DA187560C	30108		1-7/8"	5/8"	3-25/32"	3/4"		DA187560CT	35108
DA225060C	30109		2-1/4"	3/4"	4-5/32"	7/8"		DA225060CT	35109
DA3190C*	30654	90°	5/16"	1/8"	2-3/8"	5/16"		DA3190CT*	35654
DA3890C*	30655		3/8"	5/32"	2-3/8"	3/8"		DA3890CT*	35655
DA5090C*	30656		1/2"	3/16"	2-3/8"	1/2"		DA5090CT*	35656
DA7590C	30110		3/4"	1/4"	2-7/16"	3/8"		DA7590CT	35110
DA10090C	30111		1"	3/8"	2-29/32"	1/2"		DA10090CT	35111
DA137590C	30112		1-3/8"	1/2"	3-9/32"	5/8"		DA137590CT	35112
DA150090C	30113		1-1/2"	9/16"	3-7/16"	5/8"		DA150090CT	35113
DA187590C	30114		1-7/8"	5/8"	3-25/32"	3/4"		DA187590CT	35114
DA225090C	30115		2-1/4"	3/4"	4-5/32"	7/8"		DA225090CT	35115

Allow one week delivery for TiN. **Solid Carbide*



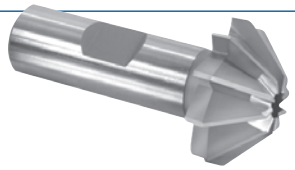
Double Angle

P: 800-536-1971 » F: 812-275-6458

Ordering Information:

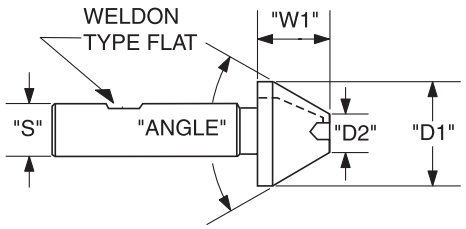
Please be sure to specify the quantity, material, coating, WTC or EDP number, diameter, included angle.

Whitney Face Angle Chamfer Milling Cutters



» 60 & 90° FACE ANGLE CHAMFER CUTTER H.S.S. & COBALT

» Face teeth for greater versatility
» Exceptional value



Tolerance on Angle: +/- 1/4° (15min.)

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

H.S.S.									H.S.S. w/TiN	
WTC No.	EDP No.	Angle	Large Cutting Dia. D1	Small Cutting Dia. D2	Cutter Width W1	Shank	Overall Length	No. of Teeth	WTC No.	EDP No.
FAC075060	10583	60°	3/4"	5/16"	17/32"	3/8"	2-3/32"	8	FAC075060T	15583
FAC100060	10584		1"	3/8"	11/16"	1/2"	2-13/32"		FAC100060T	15584
FAC125060	10585		1-1/4"	1/2"	25/32"	5/8"	2-21/32"	10	FAC125060T	15585
FAC162560	10586		1-5/8"	5/8"	1-1/16"	3/4"	3-1/16"	12	FAC162560T	15586
FAC075090	10587	90°	3/4"	5/16"	3/8"	3/8"	1-15/16"	8	FAC075090T	15587
FAC100090	10588		1"	3/8"	7/16"	1/2"	2-3/16"		FAC100090T	15588
FAC125090	10589		1-1/4"	1/2"	17/32"	5/8"	2-13/32"	10	FAC125090T	15589
FAC162590	10590		1-5/8"	5/8"	11/16"	3/4"	2-11/16"	12	FAC162590T	15590

M42 Cobalt									M42 Cobalt w/TiN	
WTC No.	EDP No.	Angle	Large Cutting Dia. D1	Small Cutting Dia. D2	Cutter Width W1	Shank	Overall Length	No. of Teeth	WTC No.	EDP No.
FAC075060M42	20583	60°	3/4"	5/16"	17/32"	3/8"	2-3/32"	8	FAC075060M42T	25583
FAC100060M42	20584		1"	3/8"	11/16"	1/2"	2-13/32"		FAC100060M42T	25584
FAC125060M42	20585		1-1/4"	1/2"	25/32"	5/8"	2-21/32"	10	FAC125060M42T	25585
FAC162560M42	20586		1-5/8"	5/8"	1-1/16"	3/4"	3-1/16"	12	FAC162560M42T	25586
FAC075090M42	20587	90°	3/4"	5/16"	3/8"	3/8"	1-15/16"	8	FAC075090M42T	25587
FAC100090M42	20588		1"	3/8"	7/16"	1/2"	2-3/16"		FAC100090M42	25588
FAC125090M42	20589		1-1/4"	1/2"	17/32"	5/8"	2-13/32"	10	FAC125090M42T	25589
FAC162590M42	20590		1-5/8"	5/8"	11/16"	3/4"	2-11/16"	12	FAC162590M42T	25590

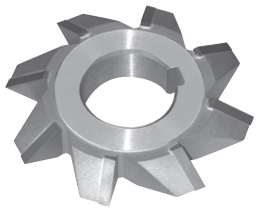
Allow one week delivery for TiN

Face Angle

www.whitneytool.com

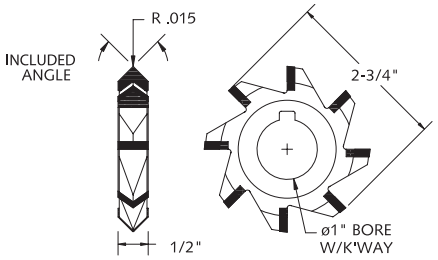
Whitney Arbor Type Carbide Tipped/TiN Coated

» Available with TiN (Titanium Nitride) 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.



Carbide w/TiN						
WTC No.	EDP No.	Angle	Cutter Dia.	Cutter Width	Arbor Hole	No. of Teeth
DAA275060C	30116	60°	2-3/4"	1/2"	1"	8
DAA275060CT	35116	Same as above — with TiN coating				
DAA275090C	30117	90°	2-3/4"	1/2"	1"	8
DAA275090CT	35117	Same as above — with TiN coating				

Allow one week delivery for TiN.

Double Angle

P: 800-536-1971 » F: 812-275-6458

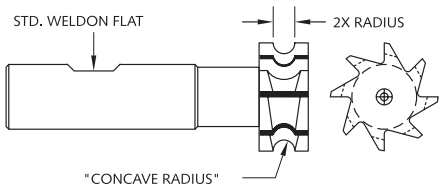
Ordering Information:
Please be sure to specify the quantity, material, coating, WTC or EDP number, diameter, and included angle.

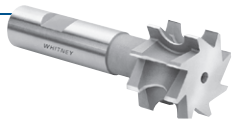
Whitney Profile Ground Concave Radius Milling Cutters

Tolerances:
OD +.005/-.000 Radius 1⁄8″ and smaller ±.001 Radius 5⁄32″ and larger ±.002 *Allow one week delivery for TiN.*

» HIGH SPEED STEEL/TiN COATED

» Profile Ground
» Performance at lower cost
» Special radius sizes available on request

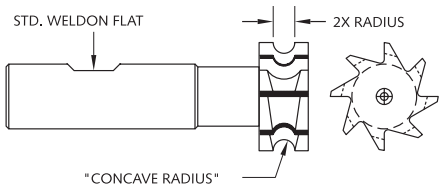


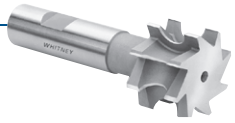


H.S.S.		Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	H.S.S. w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
R0312CAV	10360	1⁄32"	3⁄4"	3⁄8"	1⁄2"	3"	8	R0312CAVT	15360
R0625CAV	10361	1⁄16"						R0625CAVT	15361
R0937CAV	10362	3⁄32"	7⁄8"	1⁄2"				R0937CAVT	15362
R1250CAV	10363	1⁄8"	1-1⁄4"	9⁄16"	3⁄4"	3-1⁄2"		R1250CAVT	15363
R1563CAV	10364	5⁄32"	1-5⁄16"	5⁄8"				R1563CAVT	15364
R1875CAV	10365	3⁄16"	1-3⁄8"	3⁄4"				R1875CAVT	15365
R2500CAV	10366	1⁄4"	1-1⁄2"	1"		4"		R2500CAVT	15366
R3125CAV	10367	5⁄16"	1-3⁄4"	1-1⁄8"				R3125CAVT	15367
R3750CAV	10368	3⁄8"	1-7⁄8"	1-1⁄4"				R3750CAVT	15368

» M42 COBALT/TiN COATED

» Profile Ground
» Performance at lower cost
» Special radius sizes available on request

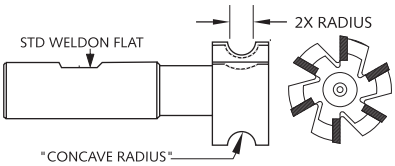


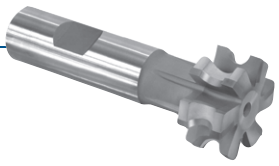


M42 Cobalt		Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	M42 Cobalt w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
R0312CAVM42	20360	1⁄32"	3⁄4"	3⁄8"	1⁄2"	3"	6	R0312CAVM42T	25360
R0625CAVM42	20361	1⁄16"						R0625CAVM42T	25361
R0937CAVM42	20362	3⁄32"	7⁄8"	1⁄2"				R0937CAVM42T	25362
R1250CAVM42	20363	1⁄8"	1-1⁄4"	9⁄16"	3⁄4"	3-1⁄2"		R1250CAVM42T	25363
R1563CAVM42	20364	5⁄32"	1-5⁄16"	5⁄8"				R1563CAVM42T	25364
R1875CAVM42	20365	3⁄16"	1-3⁄8"	3⁄4"				R1875CAVM42T	25365
R2500CAVM42	20366	1⁄4"	1-1⁄2"	1"		4"		R2500CAVM42T	25366
R3125CAVM42	20367	5⁄16"	1-3⁄4"	1-1⁄8"				R3125CAVM42T	25367
R3750CAVM42	20368	3⁄8"	1-7⁄8"	1-1⁄4"				R3750CAVM42T	25368

» CARBIDE TIPPED/TiN COATED

» Profile Ground
» Performance at lower cost
» Special radius sizes available on request



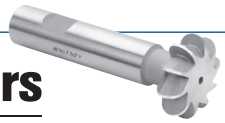


Carbide Tipped		Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	Carbide Tipped w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
R0312CAVC	30290	1⁄32"	3⁄4"	3⁄8"	1⁄2"	3"	6	R0312CAVCT	30290
R0625CAVC	30291	1⁄16"						R0625CAVCT	30291
R0937CAVC	30292	3⁄32"	7⁄8"	1⁄2"				R0937CAVCT	30292
R1250CAVC	30293	1⁄8"	1-1⁄4"	9⁄16"	3⁄4"	3-1⁄2"		R1250CAVCT	30293
R1563CAVC	30294	5⁄32"	1-5⁄16"	5⁄8"				R1563CAVCT	30294
R1875CAVC	30295	3⁄16"	1-3⁄8"	3⁄4"				R1875CAVCT	30295
R2500CAVC	30296	1⁄4"	1-1⁄2"	1"		4"		R2500CAVCT	30296
R3125CAVC	30297	5⁄16"	1-3⁄4"	1-1⁄8"				R3125CAVCT	30297
R3750CAVC	30298	3⁄8"	1-7⁄8"	1-1⁄4"				R3750CAVCT	30298

Radius Cutter Fetures:
- *More teeth for faster cutting*
- *Better finish possible in many materials with profile ground*
- *Precision ground*
- *USA made Whitney quality*

Ordering Information:
Please be sure to specify the quantity, material, coating, WTC or EDP number, radius type and size, cutter diameter and width.

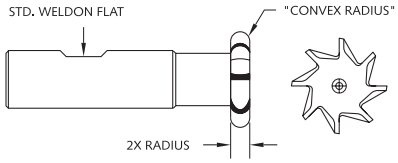
Whitney Profile Ground Convex Radius Milling Cutters



» HIGH SPEED STEEL/TiN COATED

» Profile Ground
» Performance at lower cost
» Special radius sizes available on request

Tolerances:
Dia. +.005/-.000, Radius 1⁄8" and smaller ±.001,
Radius 5⁄32" and larger ±.002



Radius Cutter Fetures:
- *More teeth for faster cutting*
- *Better finish possible in many materials with profile ground*
- *Precision ground*
- *USA made Whitney quality*

H.S.S.		Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	H.S.S. w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
R0312	10344	1⁄32"	3⁄4"	1⁄16"	1⁄2"	3"	8	R0312T	15344
R0625	10345	1⁄16"	3⁄4"	1⁄8"				R0625T	15345
R0937	10346	3⁄32"	7⁄8"	3⁄16"			10	R0937T	15346
R1250	10347	1⁄8"	1-1⁄4"	1⁄4"	3⁄4"	3-1⁄2"		R1250T	15347
R1563	10348	5⁄32"	1-5⁄16"	5⁄16"				R1563T	15348
R1875	10349	3⁄16"	1-3⁄8"	3⁄8"				R1875T	15349
R2500	10350	1⁄4"	1-1⁄2"	1⁄2"		4"		R2500T	15350
R3125	10351	5⁄16"	1-3⁄4"	5⁄8"				R3125T	15351
R3750	10352	3⁄8"	1-7⁄8"	3⁄4"				R3750T	15352

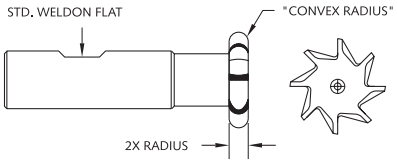
Convex

www.whitneytool.com

» M42 COBALT/TiN COATED

» Profile Ground
» Performance at lower cost
» Special radius sizes available on request

Tolerances:
Dia. +.005/-.000, Radius 1⁄8" and smaller ±.001,
Radius 5⁄32" and larger ±.002

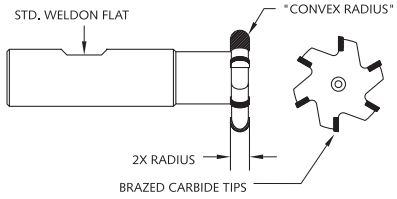


M42 Cobalt		Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	M42 Cobalt w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
R0312M42	20344	1⁄32"	3⁄4"	1⁄16"	1⁄2"	3"	6	R0312M42T	25344
R0625M42	20345	1⁄16"	3⁄4"	1⁄8"				R0625M42T	25.45
R0937M42	20346	3⁄32"	7⁄8"	3⁄16"				R0937M42T	25346
R1250M42	20347	1⁄8"	1-1⁄4"	1⁄4"	3⁄4"	3-1⁄2"		R1250M42T	25347
R1563M42	20348	5⁄32"	1-5⁄16"	5⁄16"				R1563M42T	25348
R1875M42	20349	3⁄16"	1-3⁄8"	3⁄8"				R1875M42T	25349
R2500M42	20350	1⁄4"	1-1⁄2"	1⁄2"		4"		R2500M42T	25350
R3125M42	20351	5⁄16"	1-3⁄4"	5⁄8"			10	R3125M42T	25351
R3750M42	20352	3⁄8"	1-7⁄8"	3⁄4"				R3750M42T	25352

» CARBIDE TIPPED/TiN COATED

» Profile Ground
» Performance at lower cost
» Special radius sizes available on request

Tolerances:
Dia. +.005/-.000, Radius 1⁄8" and smaller ±.001,
Radius 5⁄32" and larger ±.002



Carbide Tipped		Radius	Cutter Dia.	Cutter Width	Shank Dia.	Overall Length	No. of Teeth	Carbide Tipped w/TiN	
WTC No.	EDP No.							WTC No.	EDP No.
R0312C	30118	1⁄32"	3⁄4"	1⁄16"	1⁄2"	3"	6	R0312CT	35118
R0625C	30119	1⁄16"	3⁄4"	1⁄8"				R0625CT	35119
R0937C	30120	3⁄32"	7⁄8"	3⁄16"				R0937CT	35120
R1250C	30121	1⁄8"	1-1⁄4"	1⁄4"	3⁄4"	3-1⁄2"		R1250CT	35121
R1563C	30122	5⁄32"	1-5⁄16"	5⁄16"				R1563CT	35122
R1875C	30123	3⁄16"	1-3⁄8"	3⁄8"				R1875CT	35123
R2500C	30124	1⁄4"	1-1⁄2"	1⁄2"		4"		R2500CT	35124
R3125C	10351	5⁄16"	1-3⁄4"	5⁄8"			10	R3125CT	35125
R3750C	10352	3⁄8"	1-7⁄8"	3⁄4"				R3750CT	35126

Ordering Information:
Please be sure to specify the quantity, material, coating, WTC or EDP number, radius type and size, cutter diameter and width.

Allow one week delivery for TiN.

Whitney Solid Carbide Saws and Milling Cutters

Whitney Tool has been in the business of manufacturing milling cutters for over 35 years. While our catalog features shank type milling cutters, we have extensive experience in the manufacture of Arbor style milling cutters.

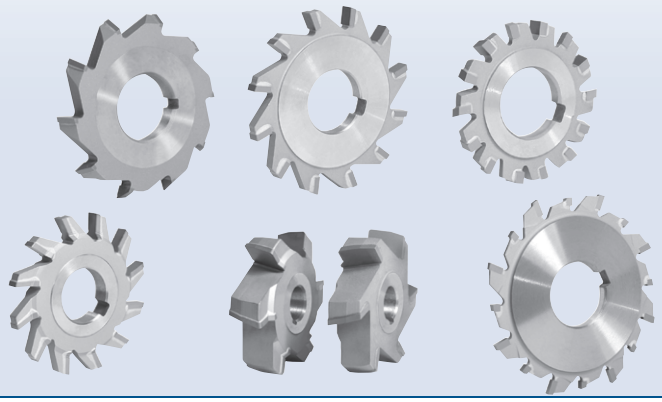
Now that experience is being applied to solid carbide saws and milling cutters.

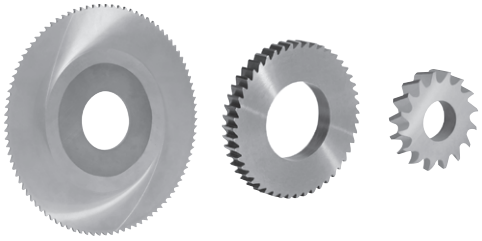
With Whitney Tool's extensive experience, we will help you select the right tool for your job. We will recommend the most economical and effective tool for your application whether it is HSS, M42, Carbide Tipped or Solid Carbide. With the software available on our CNC Cutter Grinders, we can convert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

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



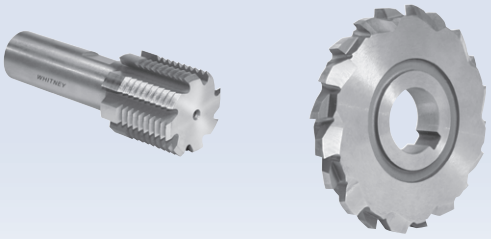


Whitney Solid Carbide

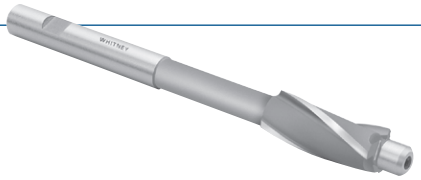
- Saws and milling cutters
- Standard and special diameters and widths
- 3/4" to 4" blanks in stock
- Narrower widths available than with carbide tipped
- Special Shapes and forms
- Gang sets
- Cutters available with keyways
- Thread milling cutters

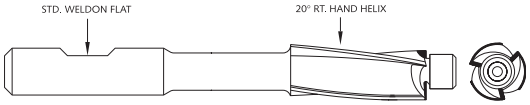
Whitney H.S.S. & M42 Cobalt

- 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



Whitney Cap Screw Counterbores





» INCH

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

Diameter Tolerances:
Head Dia. + .002/-0
Pilot Dia. + 0/-.0005

H.S.S.		Screw Size	Cutter Dia.	Pilot Dia.	Shank Dia.	Overall Length	M42 Cobalt	
WTC No.	EDP No.						WTC No.	EDP No.
CBSP02421	10533	#6	.242"	.1360"	3/8"	3-1/2"	CBSP02421M42	20533
CBSP02422	10534			.1500"			CBSP02422M42	20534
CBSP02901	10535	#8	.290"	.1620"			CBSP02901M42	20535
CBSP02902	10536			.1780"			CBSP02902M42	20536
CBSP03321	10537	#10	.332"	.1880"			CBSP03321M42	20537
CBSP03322	10538			.2040"			CBSP03322M42	20538
CBSP04061	10539	1/4"	.406"	.2500"		5"	CBSP04061M42	20539
CBSP04062	10540			.2650"			CBSP04062M42	20540
CBSP04063	10541			.2810"			CBSP04063M42	20541
CBSP05001	10542	5/16"	.500"	.3120"			CBSP05001M42	20542
CBSP05002	10543			.3280"			CBSP05002M42	20543
CBSP05003	10544			.3430"			CBSP05003M42	20544
CBSP05931	10545	3/8"	.593"	.3750"	1/2"	6"	CBSP05931M42	20545
CBSP05932	10546			.3900"			CBSP05932M42	20546
CBSP05933	10547			.4060"			CBSP05933M42	20547
CBSP06871	10548	7/16"	.687"	.4370"			CBSP06871M42	20548
CBSP06872	10549			.4530"			CBSP06872M42	20549
CBSP06873	10550			.4680"			CBSP06873M42	20550
CBSP07811	10551	1/2"	.781"	.5000"	3/4"	7"	CBSP07811M42	20551
CBSP07812	10552			.5150"			CBSP07812M42	20552
CBSP07813	10553			.5310"			CBSP07813M42	20553
CBSP08751	10554	9/16"	.875"	.5620"			CBSP08751M42	20554
CBSP08752	10555			.5780"			CBSP08752M42	20555
CBSP08753	10556			.5930"			CBSP08753M42	20556
CBSP10001	10557	5/8"	1.000"	.6250"			CBSP10001M42	20557
CBSP10002	10558			.6400"			CBSP10002M42	20558
CBSP10003	10559			.6560"			CBSP10003M42	20559
CBSP11871	10560	3/4"	1.187"	.7500"		7-1/2"	CBSP11871M42	20560
CBSP11872	10561			.7650"			CBSP11872M42	20561
CBSP11873	10562			.7810"			CBSP11873M42	20562

» METRIC

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

Diameter Tolerances:
Head Dia. + .002/-0
Pilot Dia. + 0/-.0005

H.S.S.		Screw Size	Cutter Dia.	Pilot Dia.	Shank Dia.		Overall Length		M42 Cobalt	
WTC No.	EDP No.				MM	Inches	MM	Inches	WTC No.	EDP No.
CBSP06034	10563	3mm	6mm	3.4mm	9.525mm	3/8"	88.9mm	3.5"	CBSP06034M42	20563
CBSP08045	10564	4mm	8mm	4.5mm					CBSP08045M42	20564
CBSP10055	10565	5mm	10mm	5.5mm			127mm	5"	CBSP10055M42	20565
CBSP11066	10566	6mm	11mm	6.6mm					CBSP11066M42	20566
CBSP15090	10567	8mm	15mm	9.0mm	12.7mm	1/2"	152.4mm	6"	CBSP15090M42	20567
CBSP18110	10568	10mm	18mm	11.0mm					CBSP18110M42	20568
CBSP20130	10569	12mm	20mm	13.0mm					CBSP20130M42	20569
CBSP241501	10591	14mm	24mm	15.0mm	19.05mm	3/4"	228.6mm	9"	CBSP241501M42	20591
CBSP261701	10592	16mm	26mm	17.0mm					CBSP261701M42	20592
CBSP332101	10593	20mm	33mm	21.0mm	25.4mm	1"	254mm	10"	CBSP332101M42	20593
CBSP402541	10594	24mm	40mm	25.0mm					CBSP402541M42	20594
SIX PIECE SET										
CBSPMETSET	10574	Six Piece Set of Metric Counterbores; includes 3mm, 4mm, 5mm, 6mm, 8mm and 10mm							CBSPMETSETM42	20574

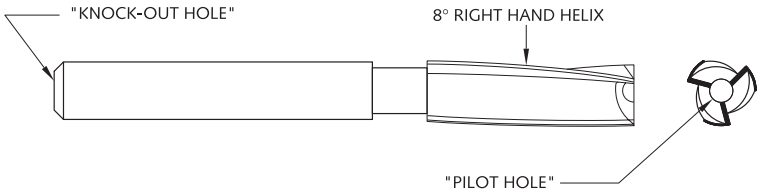
Ordering Information:
Please be sure to specify the quantity, WTC or EDP number, screw size, cutter diameter and pilot diameter.

Whitney Counterbores

MADE IN THE USA

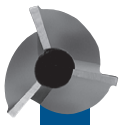
» HIGH SPEED STEEL

- » 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/+.010

H.S.S.		Cutter Dia.	Overall Length	Shank Dia.	Pilot Hole Dia.	Shank Length	No. of Flutes
WTC No.	EDP No.						
CBIP0187	10379	3⁄16"	3"	15⁄64"	3⁄32"	2-3/8″	3
CBIP0218	10380	7⁄32"					
CBIP0250	10381	1⁄4"	3-13⁄16"			3-1/16″	
CBIP0281	10382	9⁄32"		17⁄64"			
CBIP0312	10383	5⁄16"		19⁄64"			
CBIP0343	10384	11⁄32"		5⁄16"			
CBIP0375	10385	3⁄8"	4-1⁄16"		5⁄32"		
CBIP0406	10386	13⁄32"		3⁄8"			
CBIP0437	10387	7⁄16"					
CBIP0468	10388	15⁄32"	4-5⁄16"	7⁄16"	3⁄16"		
CBIP0500	10389	1⁄2"					
CBIP0531	10390	17⁄32"		1⁄2"			
CBIP0562	10391	9⁄16"					
CBIP0593	10392	19⁄32"	5-1⁄8"			3-7/8″	
CBIP0625	10393	5⁄8"					
CBIP0656	10394	21⁄32"					
CBIP0687	10395	11⁄16"					
CBIP0718	10396	23⁄32"	5-3⁄8"		1⁄4"		
CBIP0750	10397	3⁄4"					
CBIP0781	10398	25⁄32"		5⁄8"			
CBIP0812	10399	13⁄16"					
CBIP0843	10400	27⁄32"		3⁄4"			
CBIP0875	10401	7⁄8"					
CBIP0906	10402	29⁄32"	6-1⁄8"			4-5/8″	
CBIP0937	10403	15⁄16"					
CBIP0968	10404	31⁄32"	6-3⁄8"		5⁄16"		
CBIP1000	10405	1"					
CBIP1062	10406	1-1⁄16"					
CBIP1125	10407	1-1⁄8"		1"			
CBIP1187	10408	1-3⁄16"					
CBIP1250	10409	1-1⁄4"	6-5⁄8"		3⁄8"		5
CBIP1312	10410	1-5⁄16"					
CBIP1375	10411	1-3⁄8"					
CBIP1437	10412	1-7⁄16"	7-7⁄8"	1-1⁄4"	7⁄16"	5-7/8″	
CBIP1500	10413	1-1⁄2"					
CBIP1562	10414	1-9⁄16"	8-1⁄8"				
CBIP1625	10415	1-5⁄8"					
CBIP1687	10416	1-11⁄16"					
CBIP1750	10417	1-3⁄4"					
CBIP1812	10418	1-13⁄16"		1-1⁄2"			
CBIP1875	10419	1-7⁄8"					
CBIP1937	10420	1-15⁄16"					
CBIP2000	10421	2"	8-3⁄8"		1⁄2"		



Interchangeable Pilot

www.whitneytool.com

Ordering Information:
Please be sure to specify the quantity, WTC or EDP number, cutter diameter and pilot hole diameter.

Whitney 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
1-5⁄16″ to 1-1⁄8″ -.005 to -.006

Alloy Steel		Shank Dia.	Pilot Hole Dia.
WTC No.	EDP No.		
P1253	00001	3⁄32"	1⁄8"
P1563	00002		5⁄32"
P1873	00003		3⁄16"
P2183	00004		7⁄32"
P2503	00005		1⁄4"
P2813	00006		9⁄32"
P1875	00007	5⁄32"	3⁄16"
P2185	00008		7⁄32"
P2505	00009		1⁄4"
P2815	00010		9⁄32"
P3125	00011		5⁄16"
P3755	00013		3⁄8"
P2506	00014	3⁄16"	1⁄4"
P3126	00016		5⁄16"
P3756	00018		3⁄8"
P4376	00020		7⁄16"
P5006	00022		1⁄2"
P5626	00024		9⁄16"
P6256	00026		5⁄8"
P3128	00027	1⁄4"	5⁄16"
P3758	00029		3⁄8"
P4378	00031		7⁄16"
P5008	00033		1⁄2"
P5628	00035		9⁄16"
P6258	00037		5⁄8"
P6878	00039		11⁄16"
P7188	00040		23⁄32"
P7508	00041		3⁄4"
P8128	00042		13⁄16"
P8758	00043		7⁄8"

Alloy Steel		Shank Dia.	Pilot Hole Dia.
WTC No.	EDP No.		
P37510	00044	5⁄16"	3⁄8"
P40610	00045		13⁄32"
P43710	00046		7⁄16"
P50010	00048		1⁄2"
P56210	00050		9⁄16"
P62510	00052		5⁄8"
P68710	00054		11⁄16"
P75010	00056		3⁄4"
P81210	00057		13⁄16"
P87510	00058		7⁄8"
P93710	00059		15⁄16"
P100010	00060		1"
P50012	00061	3⁄8"	1⁄2"
P56212	00063		9⁄16"
P62512	00065		5⁄8"
P68712	00067		11⁄16"
P75012	00069		3⁄4"
P81212	00070		13⁄16"
P87512	00071		7⁄8"
P93712	00072		15⁄16"
P100012	00073		1"
P106212	00074		1-1⁄16"
P112512	00075		1-1⁄8"
P50014	00076	7⁄16"	1⁄2"
P62514	00078		5⁄8"
P75014	00080		3⁄4"
P87514	00082		7⁄8"
P100014	00084		1"
P112514	00086		1-1⁄8"
P62516	00088	1⁄2"	5⁄8"
P75016	00090		3⁄4"
P100016	00093		1"

Whitney Special Counterbores Available

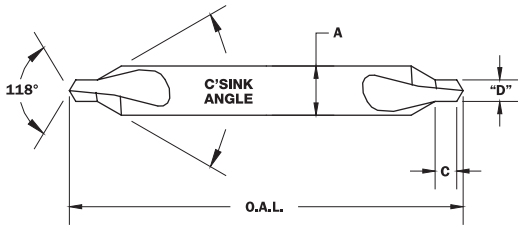
Type: Interchangeable or Solid Pilot
Size: Inch, Metric, Special Lengths & Diameters
Material: H.S.S., M42, T15, Carbide Tipped
Flutes: Standard or Special Flute Design
Shapes: Step Diameters, Angles, Corner Radii
Drive Type: Weldon Flat, Special Flats, Whistle Notch, Tang
Shank: Straight, Tapered
Coating: TiN, TiCN, TiALN
Long Reach: Extra Length Available

Ordering Information:
When ordering pilots be sure to specify the size of pilots and the size of shank. Shank size must be the same size as the pilot hole in the counterbore. Also, please specify WTC or EDP number.

Whitney Combined Drills and Countersinks

» PLAIN TYPE

Combined Drills 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.



H.S.S. 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 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

H.S.S. 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	41/2	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

H.S.S. 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

MADE IN THE USA

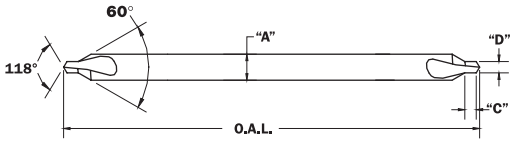
Ordering Information:
Please be sure to specify the quantity, size, countersink, angle, material and EDP number.

Whitney Combined Drills and Countersinks

Long Series

» HIGH SPEED STEEL LONG SERIES 60°

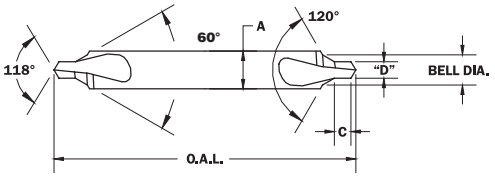
Long Series Combined Drills and Countersinks provide the extra length you need to reach difficult to access components. They are excellent for spot drilling in CNC machining centers.



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	3/16	7/16	3/16	4
40091	5 x 5				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	
40096	8 x 6	5/16	3/4	5/16	

» HIGH SPEED STEEL BELL TYPE 60°

Bell Type Combined Drills and Countersinks 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

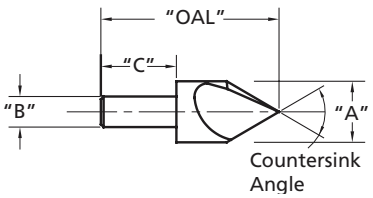
MADE IN THE USA

Whitney Countersinks

Bell Type

» HIGH SPEED STEEL SINGLE FLUTE COUNTERSINKS

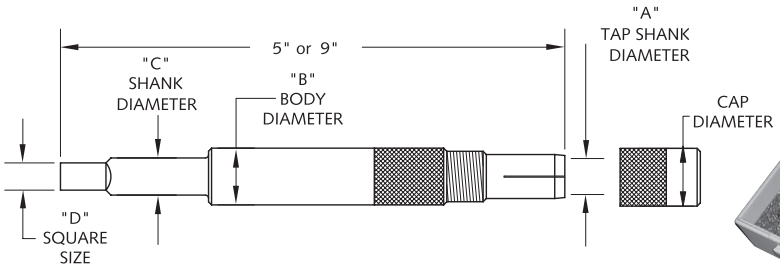
Used for chamfering, deburring and countersinking. High positive rake is ideal for many material types. Strong single flute construction. Radial relief for smooth cutting action.



			60°		82°		90°	
A Body Dia.	B Shank Dia.	C Shank Length	EDP No.	Overall Length	EDP No.	Overall Length	EDP No.	Overall Length
1/8	1/8	N/A	42000	1-1/4	42012	1-1/4	42024	1-1/4
3/16	3/16	N/A	42001	1-3/8	42013	1-3/8	42025	1-3/8
1/4	1/4	N/A	42002	1-1/2	42014	1-1/2	42026	1-1/2
3/8		7/8	42003	1-3/4	42015	1-3/4	42027	1-3/4
1/2		1	42004	2	42016	2	42028	2
5/8	3/8		42005	2-1/4	42017	2-1/4	42029	2-1/4
3/4	1/2	1-1/4	42006	2-5/8	42018	2-5/8	42030	2-5/8
1			42007	2-3/4	42019	2-3/4	42031	2-3/4
1-1/4			42008	3	42020	2-3/4	42032	2-3/4
1-1/2	3/4		42009	3-1/4	42021	2-7/8	42033	2-7/8
1-3/4			42010	3-1/2	42022	3	42034	3
2			42011	3-3/4	42023	3-1/4	42035	3-1/4

WHITNEY TOOL COMPANY, INC.

Whitney 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

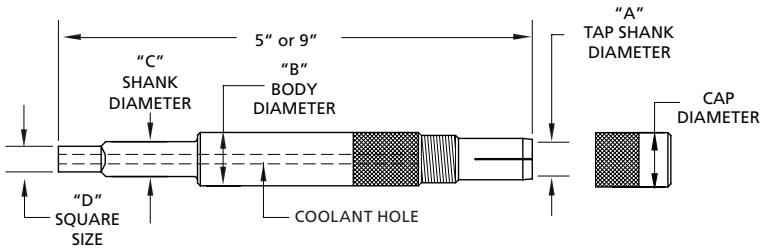
- » Made from tool steel
- » Internal square drive for positive tap drive
- » Compression cap for easy tightening, no wrench required
- » A very effective tool at low cost
- » The slim profile lets you fit into places not accessible to conventional tap extensions
- » Eliminates the need for purchasing 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 Extentions (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"			1"
96092	#12	—	0.220	3/8"			
96093	1/4"	M6-M6.3	0.255	7/16"	0.255	0.191	
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"
96119	5" Tap Extension Set w/Case (9-piece set includes WTC No. 96089 thru 96097)						
9" Tap Extentions (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"			1"
96102	#12	—	0.220	3/8"			
96103	1/4"	M6	0.255	7/16"	0.255	0.191	
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"
96120	9" Tap Extension Set w/Case (9-piece set includes WTC No. 96099 thru 96107)						
6" Tap Extentions (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	11/16"	—	0.542	7/8"	0.542	0.406	
96113	1/4 NPT	—	0.562		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		0.800	0.600	1-1/2"

MADE IN THE USA

Ordering Information:
Please be sure to specify the quantity, EDP number, tap size, and extension length.

Whitney 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.

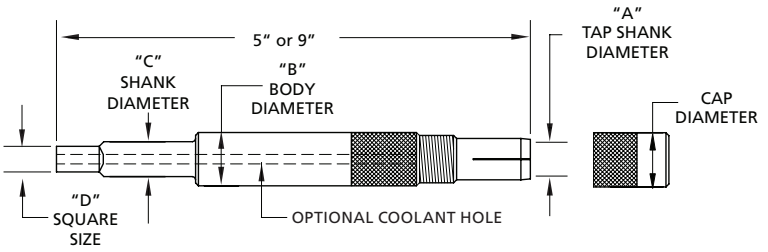
» COOLANT THRU HAND/MACHINE TAP EXTENSIONS 5" & 9" LENGTH

- » 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

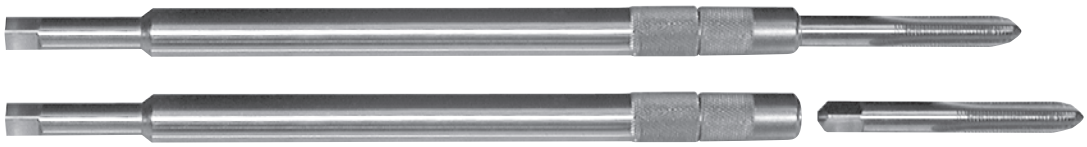
EDP No.	Nominal Tap Size	Metric Tap Size ASME/ANSI	A Dia. of Tap Shank	B Body Dia. Inch	C Shank Dia. Inch	D Square Size Inch	Depth Tap Enters	Coolant Hole Dia.
5" Coolant Thru Tap Extentions (CAP Diameter = "B" Body Diameter)								
96150	#0-#6	M1.6-M3.5	0.141	1/4"	0.194	0.152	7/8"	7/64
96151	#8	M4	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"	3/32
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 Extentions (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 Extentions (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		0.590	0.440	1-3/8"	
96176	7/8"	—	0.697	1"	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		0.687	0.515	1-1/4"	
96179	1"	—	0.800		0.800	0.600	1-1/2"	

Ordering Information:
Please be sure to specify the quantity, EDP number, tap size, and extension length.

Whitney 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.



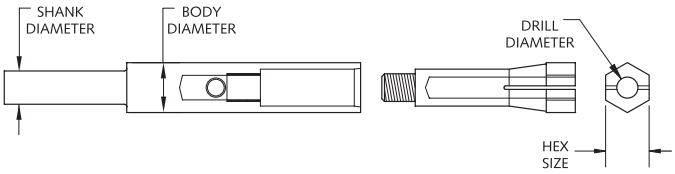
» METRIC DIN HAND/MACHINE TAP EXTENSIONS 5" & 9" LENGTH

- » 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	3.96mm
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, tap size, and extension length.

Whitney Drill Extensions



» COLLET TYPE DRILL EXTENSION SYSTEM

- » 4" & 9" 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

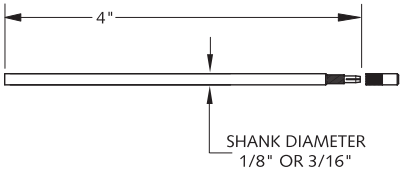
EDP No.	Series	Length	Shank Dia.	Body Dia.
96000	#1	4"	1/4"	5/16"
96001	#2			7/16"
96002	#3		3/8"	9/16"
96003	#1	9"	1/4"	5/16"
96004	#2			7/16"
96005	#3		3/8"	9/16"

Collets for Drill Extension System

EDP No.	Series	Description of Collett	Hex Size
96300	1	1.5mm (0.590)	1/4"
96006		1/16" (.0625)	
96301		2mm (.0787)	
96007		5/64" (.0781)	
96008		No. 43 (.0890)	
96009		3/32" (.0937)	
96010		No. 40 (.0980)	
96302		No. 36 (.1065)	
96011		7/64" (.1094)	
96303		3mm (.1181)	
96012		1/8" (.1250)	
96013		No. 30 (.1285)	
96304		No. 29 (.1360)	
96014		9/64" (.1405)	
96305		No. 26 (.1470)	
96015		5/32" (.1562)	
96306		4mm (.1575)	
96016		No. 21 (.1590)	
96017	2	11/64" (.1719)	3/8"
96018		3/16" (.1875)	
96019		No. 11 (.191)	
96020		No. 10 (.1395)	
96307		5mm (.1968)	
96021		13/64" (.2031)	
96022		7/32" (.2187)	
96023		15/64" (.2344)	
96308		6mm (.2362)	
96024		1/4" (.2500)	
96025	3	1/4" (.2500)	7/16"
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)	

» 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



4" O.A.L. 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"

Whitney Suggested Cutting Speeds (SFM)

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 www.whitneytool.com

Whitney Tap Drill Size Chart

Thread Size	Drill Size
Standard Tap & Drill Approximately 75% Thread	
0-80	3/64
1-64	53
1-72	53
2-56	50
2-64	50
3-48	47
3-56	46
4-40	43
4-48	3/32
5-40	38
5-44	37
6-32	36
6-40	33
8-32	29
8-36	29
10-24	25
10-32	21
12-24	17
12-28	15
1/4-20	7
1/4-28	3
5/16-18	F
5/16-24	I
3/8-16	5/16
3/8-24	Q
7/16-14	U
7/16-20	W
1/2-12	27/64

Thread Size	Drill Size
Standard Tap & Drill Approximately 75% Thread	
1/2-13	27/64
1/2-20	29/64
9/16-12	31/64
9/16-18	33/64
5/8-11	17/32
5/8-18	37/64
3/4-10	21/32
3/4-16	11/16
7/8-9	49/64
7/8-14	13/16
1-8	7/8
1-12	59/64
1-14	15/16
Taper Pipe (NPT) Tap & Drill	
1/16-27	D
1/8-27	R
1/4-18	7/16
3/8-18	37/64
1/2-14	45/64
3/4-14	59/64
1 – 11-1/2	1-5/32
1-1/4 – 11-1/2	1-1/2
1-1/2 – 11-1/2	1-47/64
2 – 11-1/2	2-7/32

Thread Size	Drill Size
Metric Tap & Drill Approximately 70-75% Thread	
M1.6 x .35	1.25mm
M2.0 x .40	1.6
M2.5 x .45	2.05
M3.0 x .50	2.5
M3.5 x .60	2.9
M4.0 x .70	3.3
M4.5 x .75	3.75
M5.0 x .80	4.2
M6.0 x 1.0	5
M7.0 x 1.0	6
M8 x 1.25	6.75
M10 x 1.50	8.5
M12 x 1.75	Y
M14 x 2.0	12
M16 x 2.0	14
M18 x 2.5	15.5
M20 x 2.5	17.5
Rollform Tap & Drill Approximately 65% Thread	
0-80	54
1-64	1.65mm
1-72	1.7mm
2-56	5/64
2-64	2mm
3-48	43
3-56	2.3mm
4-40	39

Thread Size	Drill Size
Rollform Tap & Drill Approximately 65% Thread	
4-48	2.6mm
5-40	33
5-44	2.9mm
6-32	1/8
6-40	3.2mm
8-32	25
8-36	24
10-24	11/64
10-32	16
12-24	5mm
12-28	8
1/4-20	1
1/4-28	A
5/16-18	7.3mm
5/16-24	M
3/8-16	S
3/8-24	T
7/16-14	13/32
7/16-20	10.5mm
1/2-13	15/32
1/2-20	31/64
9/16-12	17/32
9/16-18	13.5mm
5/8-11	15mm
5/8-18	19/32
3/4-10	45/64
3/4-16	23/32
7/8-9	.823
7/8-14	27/32
1-8	15/16
1-12	.963

Thread Size	Drill Size
Straight Pipe (NPS) Tap & Drill	
1/16 – 27	1/4
1/8 – 27	11/32
1/4 – 18	7/16
3/8 – 18	37/64
1/2 – 14	23/32
3/4 – 14	15/16
1 – 11-1/2	1-3/16
1-1/4 – 11-1/2	1-1/2
1-1/2 – 11-1/2	1-3/4
2 – 11-1/2	2-7/32
Metric Roll Form Tap & Drill Approximately 65% Thread	
M1.6 x .35	1.45mm
M2.0 x .40	1.85mm
M2.5 x .45	2.30mm
M3.0 x .50	35
M3.5 x .60	30
M4.0 x .70	3.7mm
M5.0 x .80	14
M6.0 x 1.0	5.5mm
M8 x 1.25	7.4mm
M10 x 1.50	9.3mm
M12 x 1.75	7/16
M14 x 2.0	13mm
M16 x 2.0	15mm
M20 x 2.5	18.75mm

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

Whitney Standard Burr-Zit™ Tools

The Burr-Zit™ tool is the original clothespin type de-burring tool, *unequaled 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.

Cogsdill Enterprises, a wholly owned subsidiary of Whitney Tool Company – developer and patent holder of the Burr-Zit™ de-burring tool – has been manufacturing premium quality de-burring tools continuously since 1961.

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, founder of Cogsdill Enterprises, 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.

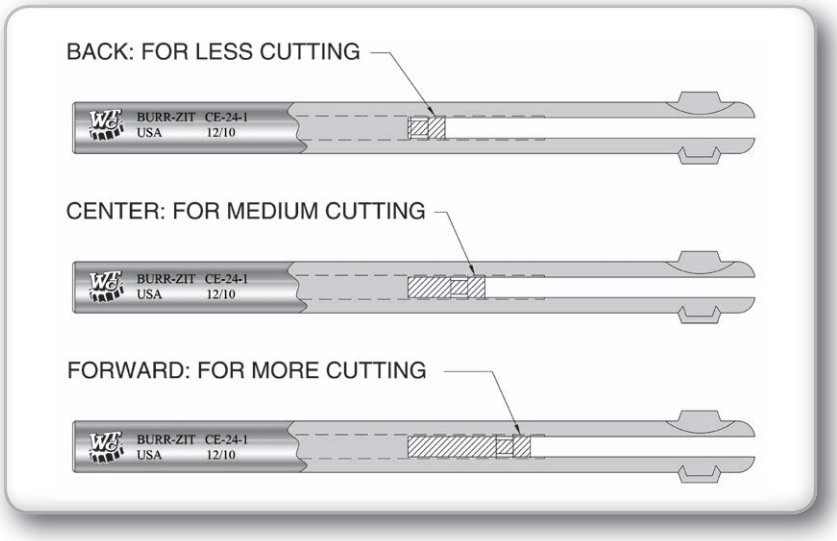
Burr-Zit™ tools are easily resharpened thus assuring long tool life.

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:

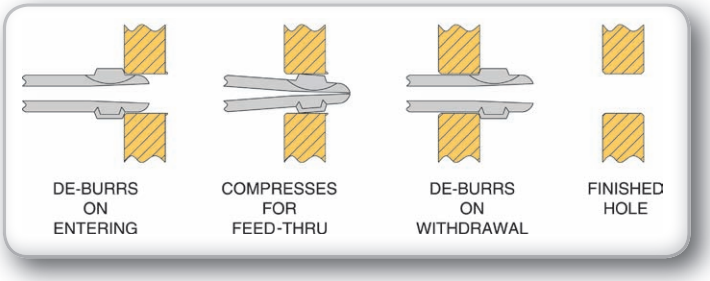
- Constructed entirely from a single piece of high quality M-2, high speed cutting steel. *(Tools made from higher grade steels such as M-4 and M-42 are available for special applications)*
- The internal tension pin adjustment for CE-20 and larger is available exclusively with the Burr-Zit™ tool
- An 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

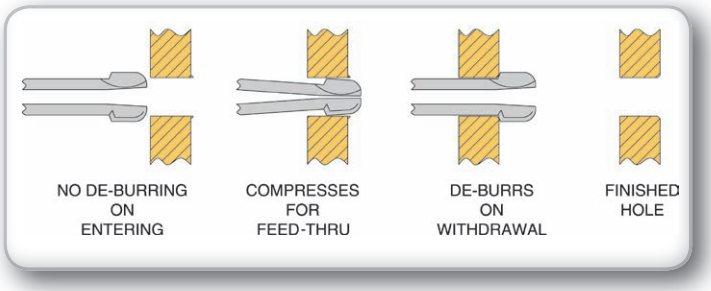


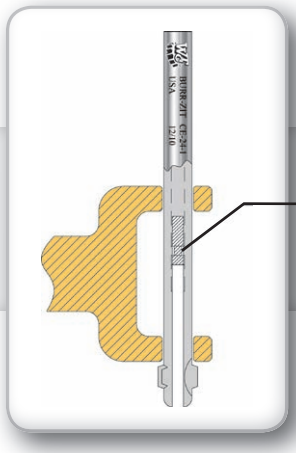
Whitney Standard Burr-Zit™ Tools–System I and II

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.



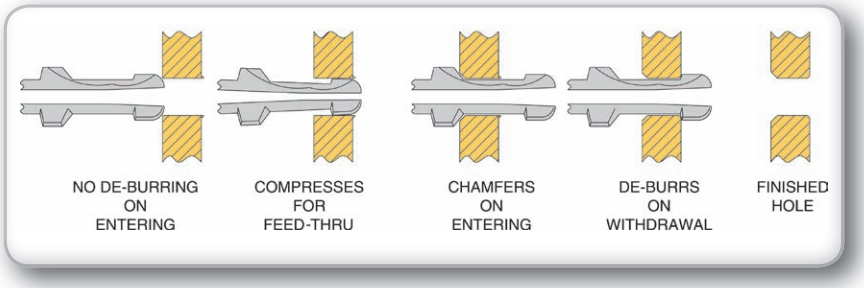


Internal adjustment pin allows easy pass-through without obstruction.

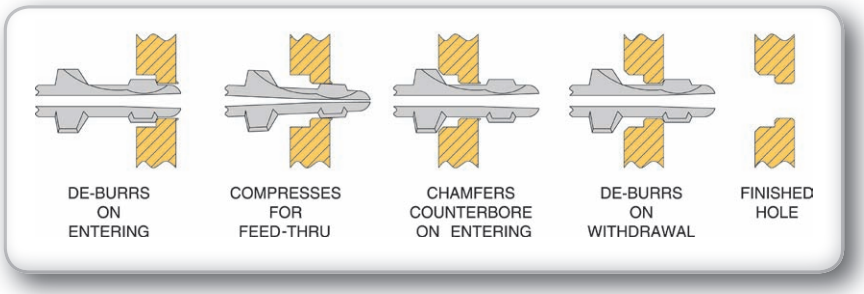
Whitney Standard Burr-Zit™ Tools–System III

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.



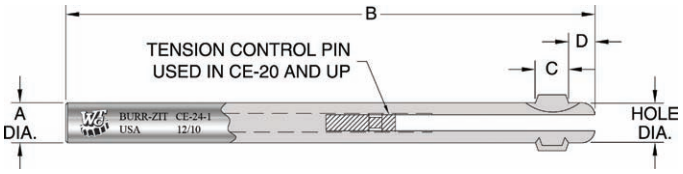
System III on Counterbored Holes - can also be used to de-burr **both sides** of a counterbored hole.



Whitney Standard Burr-Zit™ Tools

SYSTEM I

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



MADE IN THE USA

Burr-Zit™ Tool Speed & Feed Recommendations:

Ferrous Metals:
Speed 40-50 S.F.M.
Feed: .007-.010 I.P.R.

Non-Ferrous Metals:
Speed 80-90 S.F.M.
Feed: .007-.010 I.P.R.

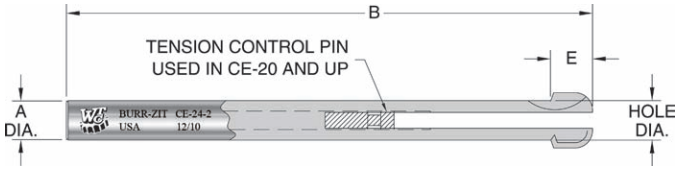
Tool Range:
Each tool is designed to de-burr up to the next size

Tool Number	Hole Diameter (A)			Overall Length (B)		Lobe Length (C)		Pilot Length (D)		Number Of Lobes
	Fraction	Inch	mm	Inch	mm	Inch	mm	Inch	mm	
CE-4	5/64	.078	1.98	2.5	63.5	3/32	2.3	1/16	1.5	1
CE-5		.085	2.16	2.5	63.5	3/32	2.3	1/16	1.5	1
CE-6	3/32	.094	2.38	4	101.6	5/32	4.0	3/32	2.4	1
CE-7	7/64	.109	2.78	4	101.6	5/32	4.0	3/32	2.4	1
CE-8	**1/8**	**.125**	**3.18**	**4**	**101.6**	**5/32**	**4.0**	**3/32**	**2.4**	**1**
CE-9	9/64	.141	3.57	4	101.6	5/32	4.0	1/8	3.0	1
CE-10	5/32	.156	3.97	4	101.6	3/16	4.6	1/8	3.0	1
CE-11	11/64	.172	4.37	4	101.6	3/16	4.6	1/8	3.0	1
CE-12	**3/16**	**.188**	**4.76**	**4**	**101.6**	**3/16**	**4.6**	**1/8**	**3.0**	**1**
CE-13	13/64	.203	5.16	4	101.6	3/16	4.6	1/8	3.0	1
CE-14	7/32	.219	5.56	4	101.6	3/16	4.6	1/8	3.0	2
CE-15	15/64	.234	5.95	4	101.6	1/4	6.4	3/16	4.6	2
CE-16	**1/4**	**.250**	**6.35**	**4**	**101.6**	**1/4**	**6.4**	**3/16**	**4.6**	**2**
CE-17	17/64	.266	6.75	4	101.6	1/4	6.4	3/16	4.6	2
CE-18	9/32	.281	7.14	4	101.6	1/4	6.4	3/16	4.6	2
CE-19	19/64	.297	7.54	4	101.6	1/4	6.4	3/16	4.6	2
CE-20	**5/16**	**.313**	**7.94**	**4**	**101.6**	**1/4**	**6.4**	**3/16**	**4.6**	**2**
CE-21	21/64	.328	8.33	4	101.6	1/4	6.4	3/16	4.6	2
CE-22	11/32	.344	8.73	4	101.6	1/4	6.4	3/16	4.6	2
CE-23	23/64	.359	9.13	4.5	114.3	1/4	6.4	3/16	4.6	2
CE-24	**3/8**	**.375**	**9.53**	**4.5**	**114.3**	**1/4**	**6.4**	**3/16**	**4.6**	**2**
CE-25	25/64	.391	9.92	4.5	114.3	5/16	7.9	3/16	4.6	2
CE-26	13/32	.406	10.32	4.5	114.3	5/16	7.9	3/16	4.6	2
CE-27	27/64	.422	10.72	5	127.0	5/16	7.9	3/16	4.6	2
CE-28	**7/16**	**.438**	**11.11**	**5.5**	**139.7**	**5/16**	**7.9**	**3/16**	**4.6**	**2**
CE-29	29/64	.453	11.51	5.5	139.7	5/16	7.9	3/16	4.6	2
CE-30	15/32	.469	11.91	5.5	139.7	3/8	9.4	3/16	4.6	2
CE-31	31/64	.484	12.30	5.5	139.7	3/8	9.4	3/16	4.6	2
CE-32	**1/2**	**.500**	**12.70**	**6**	**152.4**	**3/8**	**9.4**	**3/16**	**4.6**	**2**
CE-33	33/64	.516	13.10	6	152.4	3/8	9.4	3/16	4.6	2
CE-34	17/32	.531	13.49	6	152.4	3/8	9.4	3/16	4.6	2
CE-35	35/64	.547	13.89	6.5	165.1	3/8	9.4	3/16	4.6	2
CE-36	**9/16**	**.563**	**14.29**	**7**	**177.8**	**3/8**	**9.4**	**3/16**	**4.6**	**2**
CE-37	37/64	.578	14.68	7	177.8	3/8	9.4	3/16	4.6	2
CE-38	19/32	.594	15.08	7	177.8	3/8	9.4	3/16	4.6	2
CE-39	39/64	.609	15.48	7.5	190.5	3/8	9.4	1/4	6.4	2
CE-40	**5/8**	**.625**	**15.88**	**7.5**	**190.5**	**3/8**	**9.4**	**1/4**	**6.4**	**2**
CE-41	41/64	.641	16.27	7.5	190.5	3/8	9.4	1/4	6.4	2
CE-42	21/32	.656	16.67	7.5	190.5	3/8	9.4	1/4	6.4	2
CE-43	43/64	.672	17.07	7.5	190.5	3/8	9.4	1/4	6.4	2
CE-44	**11/16**	**.688**	**17.46**	**8**	**203.2**	**3/8**	**9.4**	**1/4**	**6.4**	**2**
CE-45	45/64	.703	17.86	8	203.2	3/8	9.4	1/4	6.4	2
CE-46	23/32	.719	18.26	8	203.2	3/8	9.4	1/4	6.4	2
CE-47	47/64	.734	18.65	8	203.2	3/8	9.4	1/4	6.4	2
CE-48	**3/4**	**.750**	**19.05**	**8.5**	**215.9**	**3/8**	**9.4**	**1/4**	**6.4**	**2**
CE-49	49/64	.766	19.45	8.5	215.9	3/8	9.4	1/4	6.4	2
CE-50	25/32	.781	19.84	8.5	215.9	3/8	9.4	1/4	6.4	2
CE-51	51/64	.797	20.24	9	228.6	3/8	9.4	1/4	6.4	2
CE-52	**13/16**	**.813**	**20.64**	**9**	**228.6**	**1/2**	**12.7**	**1/4**	**6.4**	**2**
CE-53	53/64	.828	21.03	9	228.6	1/2	12.7	3/8	9.4	2
CE-54	27/32	.844	21.43	9	228.6	1/2	12.7	3/8	9.4	2
CE-55	55/64	.859	21.83	9	228.6	1/2	12.7	3/8	9.4	2
CE-56	**7/8**	**.875**	**22.23**	**9.5**	**241.3**	**1/2**	**12.7**	**3/8**	**9.4**	**2**
CE-57	57/64	.891	22.62	9.5	241.3	1/2	12.7	3/8	9.4	2
CE-58	29/32	.906	23.02	9.5	241.3	1/2	12.7	3/8	9.4	2
CE-59	59/64	.922	23.42	9.5	241.3	1/2	12.7	3/8	9.4	2
CE-60	**15/16**	**.938**	**23.81**	**9.75**	**247.6**	**1/2**	**12.7**	**3/8**	**9.4**	**2**
CE-61	61/64	.953	24.21	9.75	247.6	1/2	12.7	3/8	9.4	2
CE-62	31/32	.968	24.61	9.75	247.6	1/2	12.7	3/8	9.4	2
CE-63	63/64	.984	25.00	9.75	247.6	1/2	12.7	3/8	9.4	2
CE-64	**1**	**1.000**	**25.40**	**10**	**254.0**	**1/2**	**12.7**	**3/8**	**9.4**	**2**

Whitney Standard Burr-Zit™ Tools

SYSTEM II

For applications in which only the **back side** of the hole requires de-burring.



Tool Number	Hole Diameter (A)			Overall Length (B)		Lobe Length (E)		Number Of Lobes
	Fraction	Inch	mm	Inch	mm	Inch	mm	
CE-4	5/64	.078	1.98	2.5	63.5	5/32	4.0	1
CE-5		.085	2.16	2.5	63.5	5/32	4.0	1
CE-6	3/32	.094	2.38	4.0	101.6	3/16	4.8	1
CE-7	7/64	.109	2.78	4.0	101.6	3/16	4.8	1
CE-8	**1/8**	**.125**	**3.18**	**4.0**	**101.6**	**3/16**	**4.8**	**1**
CE-9	9/64	.141	3.57	4.0	101.6	3/16	4.8	1
CE-10	5/32	.156	3.97	4.0	101.6	3/16	4.8	1
CE-11	11/64	.172	4.37	4.0	101.6	1/4	6.3	1
CE-12	**3/16**	**.188**	**4.76**	**4.0**	**101.6**	**1/4**	**6.3**	**1**
CE-13	13/64	.203	5.16	4.0	101.6	1/4	6.3	1
CE-14	7/32	.219	5.56	4.0	101.6	5/16	7.8	2
CE-15	15/64	.234	5.95	4.0	101.6	11/32	8.6	2
CE-16	**1/4**	**.250**	**6.35**	**4.0**	**101.6**	**3/8**	**9.3**	**2**
CE-17	17/64	.266	6.75	4.0	101.6	3/8	9.3	2
CE-18	9/32	.281	7.14	4.0	101.6	3/8	9.3	2
CE-19	19/64	.297	7.54	4.0	101.6	7/16	10.9	2
CE-20	**5/16**	**.313**	**7.94**	**4.0**	**101.6**	**7/16**	**10.9**	**2**
CE-21	21/64	.328	8.33	4.0	101.6	7/16	10.9	2
CE-22	11/32	.344	8.73	4.0	101.6	7/16	10.9	2
CE-23	23/64	.359	9.13	4.5	114.3	1/2	12.7	2
CE-24	**3/8**	**.375**	**9.53**	**4.5**	**114.3**	**1/2**	**12.7**	**2**
CE-25	25/64	.391	9.92	4.5	114.3	1/2	12.7	2
CE-26	13/32	.406	10.32	4.5	114.3	1/2	12.7	2
CE-27	27/64	.422	10.72	5.0	127.0	1/2	12.7	2
CE-28	**7/16**	**.438**	**11.11**	**5.5**	**139.7**	**1/2**	**12.7**	**2**
CE-29	29/64	.453	11.51	5.5	139.7	1/2	12.7	2
CE-30	15/32	.469	11.91	5.5	139.7	1/2	12.7	2
CE-31	31/64	.484	12.30	5.5	139.7	1/2	12.7	2
CE-32	**1/2**	**.500**	**12.70**	**6.0**	**152.4**	**1/2**	**12.7**	**2**
CE-33	33/64	.516	13.10	6.0	152.4	1/2	12.7	2
CE-34	17/32	.531	13.49	6.0	152.4	1/2	12.7	2
CE-35	35/64	.547	13.89	6.5	165.1	1/2	12.7	2
CE-36	**9/16**	**.563**	**14.29**	**7.0**	**177.8**	**1/2**	**12.7**	**2**
CE-37	37/64	.578	14.68	7.0	177.8	1/2	12.7	2
CE-38	19/32	.594	15.08	7.0	177.8	1/2	12.7	2
CE-39	39/64	.609	15.48	7.5	190.5	5/8	15.7	2
CE-40	**5/8**	**.625**	**15.88**	**7.5**	**190.5**	**5/8**	**15.7**	**2**
CE-41	41/64	.641	16.27	7.5	190.5	5/8	15.7	2
CE-42	21/32	.656	16.67	7.5	190.5	5/8	15.7	2
CE-43	43/64	.672	17.07	7.5	190.5	5/8	15.7	2
CE-44	**11/16**	**.688**	**17.46**	**8.0**	**203.2**	**5/8**	**15.7**	**2**
CE-45	45/64	.703	17.86	8.0	203.2	5/8	15.7	2
CE-46	23/32	.719	18.26	8.0	203.2	5/8	15.7	2
CE-47	47/64	.734	18.65	8.0	203.2	5/8	15.7	2
CE-48	**3/4**	**.750**	**19.05**	**8.5**	**215.9**	**5/8**	**15.7**	**2**
CE-49	49/64	.766	19.45	8.5	215.9	5/8	15.7	2
CE-50	25/32	.781	19.84	8.5	215.9	5/8	15.7	2
CE-51	51/64	.797	20.24	9.0	228.6	5/8	15.7	2
CE-52	**13/16**	**.813**	**20.64**	**9.0**	**228.6**	**5/8**	**15.7**	**2**
CE-53	53/64	.828	21.03	9.0	228.6	5/8	15.7	2
CE-54	27/32	.844	21.43	9.0	228.6	5/8	15.7	2
CE-55	55/64	.859	21.83	9.0	228.6	5/8	15.7	2
CE-56	**7/8**	**.875**	**22.23**	**9.5**	**241.3**	**3/4**	**19.0**	**2**
CE-57	57/64	.891	22.62	9.5	241.3	3/4	19.0	2
CE-58	29/32	.906	23.02	9.5	241.3	3/4	19.0	2
CE-59	59/64	.922	23.42	9.5	241.3	3/4	19.0	2
CE-60	**15/16**	**.938**	**23.81**	**9.75**	**247.6**	**3/4**	**19.0**	**2**
CE-61	61/64	.953	24.21	9.75	247.6	3/4	19.0	2
CE-62	31/32	.968	24.61	9.75	247.6	3/4	19.0	2
CE-63	63/64	.984	25.00	9.75	247.6	3/4	19.0	2
CE-64	**1**	**1.000**	**25.40**	**10.0**	**254.0**	**3/4**	**19.0**	**2**

MADE IN THE USA

Burr-Zit™ Tool Speed & Feed Recommendations:

Ferrous Metals:
Speed 40-50 S.F.M.
Feed: .007-.010 I.P.R.

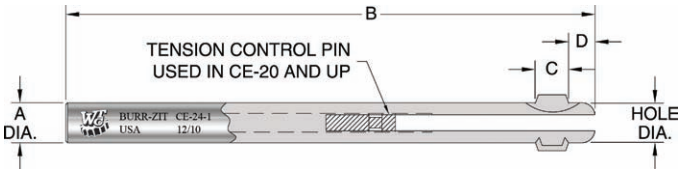
Non-Ferrous Metals:
Speed 80-90 S.F.M.
Feed: .007-.010 I.P.R.

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

Whitney Standard Burr-Zit™ Tools - Metric

SYSTEM I

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



MADE IN THE USA

Burr-Zit™ Tool Speed & Feed Recommendations:

Ferrous Metals:
Speed 40-50 S.F.M.
Feed: .007-.010 I.P.R.

Non-Ferrous Metals:
Speed 80-90 S.F.M.
Feed: .007-.010 I.P.R.

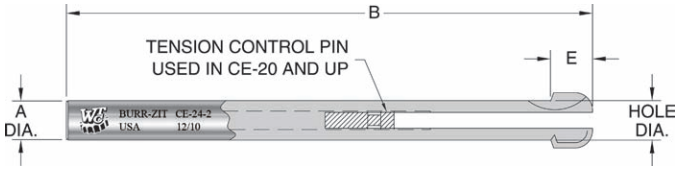
Tool Range:
Each tool is designed to de-burr up to the next size

Tool Number	Hole Diameter (A)	Overall Length (B)	Lobe Length (C)	Pilot Length (D)	Number Of Lobes
CE-2.0mm-1	2.0mm	63mm	2.3mm	1.5mm	1
CE-2.5mm-1	2.5mm	102mm	4.0mm	2.4mm	1
CE-3.0mm-1	3.0mm	102mm	4.0mm	2.4mm	1
CE-3.5mm-1	3.5mm	102mm	4.0mm	3.0mm	1
CE-4.0mm-1	**4.0mm**	**102mm**	**4.6mm**	**3.0mm**	**1**
CE-4.5mm-1	4.5mm	102mm	4.6mm	3.0mm	1
CE-5.0mm-1	5.0mm	102mm	4.6mm	3.0mm	1
CE-5.5mm-1	5.5mm	102mm	4.6mm	3.0mm	2
CE-6.0mm-1	**6.0mm**	**102mm**	**6.4mm**	**4.6mm**	**2**
CE-6.5mm-1	6.5mm	102mm	6.4mm	4.6mm	2
CE-7.0mm-1	7.0mm	102mm	6.4mm	4.6mm	2
CE-7.5mm-1	7.5mm	102mm	6.4mm	4.6mm	2
CE-8.0mm-1	**8.0mm**	**102mm**	**6.4mm**	**4.6mm**	**2**
CE-8.5mm-1	8.5mm	102mm	6.4mm	4.6mm	2
CE-9.0mm-1	9.0mm	114mm	6.4mm	4.6mm	2
CE-9.5mm-1	9.5mm	114mm	6.4mm	4.6mm	2
CE-10.0mm-1	**10.0mm**	**114mm**	**7.9mm**	**4.6mm**	**2**
CE-10.5mm-1	10.5mm	127mm	7.9mm	4.6mm	2
CE-11.0mm-1	11.0mm	140mm	7.9mm	4.6mm	2
CE-11.5mm-1	11.5mm	140mm	7.9mm	4.6mm	2
CE-12.0mm-1	**12.0mm**	**140mm**	**9.4mm**	**4.6mm**	**2**
CE-12.5mm-1	12.5mm	152mm	9.4mm	4.6mm	2
CE-13.0mm-1	13.0mm	152mm	9.4mm	4.6mm	2
CE-13.5mm-1	13.5mm	152mm	9.4mm	4.6mm	2
CE-14.0mm-1	**14.0mm**	**152mm**	**9.4mm**	**4.6mm**	**2**
CE-2.0mm-10	2.0mm	6.3mm	2.3mm	1.5mm	1
CE-2.5mm-10	2.5mm	102mm	4.0mm	2.4mm	1
CE-3.0mm-10	3.0mm	102mm	4.0mm	2.4mm	1
CE-3.5mm-10	**3.5mm**	**102mm**	**4.0mm**	**3.0mm**	**1**
CE-4.0mm-10	4.0mm	102mm	4.6mm	3.0mm	1
CE-4.5mm-10	4.5mm	102mm	4.6mm	3.0mm	1
CE-5.0mm-10	5.0mm	102mm	4.6mm	3.0mm	1
CE-5.5mm-10	**5.5mm**	**102mm**	**4.6mm**	**3.0mm**	**2**
CE-6.0mm-10	6.0mm	102mm	6.4mm	4.6mm	2
CE-6.5mm-10	6.5mm	102mm	6.4mm	4.6mm	2
CE-7.0mm-10	7.0mm	102mm	6.4mm	4.6mm	2
CE-7.5mm-10	**7.5mm**	**102mm**	**6.4mm**	**4.6mm**	**2**
CE-8.0mm-10	8.0mm	102mm	6.4mm	4.6mm	2
CE-8.5mm-10	8.5mm	102mm	6.4mm	4.6mm	2
CE-9.0mm-10	9.0mm	114mm	6.4mm	4.6mm	2
CE-9.5mm-10	**9.5mm**	**114mm**	**6.4mm**	**4.6mm**	**2**
CE-10.0mm-10	10.0mm	114mm	7.9mm	4.6mm	2
CE-10.5mm-10	10.5mm	127mm	7.9mm	4.6mm	2
CE-11.0mm-10	11.0mm	140mm	7.9mm	4.6mm	2
CE-11.5mm-10	**11.5mm**	**140mm**	**7.9mm**	**4.6mm**	**2**
CE-1.02mm-10	12.0mm	140mm	9.4mm	4.6mm	2
CE-12.5mm-10	12.5mm	152mm	9.4mm	4.6mm	2
CE-13.0mm-10	13.0mm	152mm	9.4mm	4.6mm	2
CE-13.5mm-10	**13.5mm**	**152mm**	**9.4mm**	**4.6mm**	**2**
CE-14.0mm-10	14.0mm	152mm	9.4mm	4.6mm	2

Whitney Standard Burr-Zit™ Tools - Metric

SYSTEM II

For applications in which only the **back side** of the hole requires de-burring.



Tool Number	Hole Diameter (A)	Overall Length (B)	Lobe Length (C)	Number Of Lobes
CE-2.0mm-2	2.0mm	6.3mm	4.0mm	1
CE-2.5mm-2	2.5mm	102mm	4.8mm	1
CE-3.0mm-2	3.0mm	102mm	4.8mm	1
CE-3.5mm-2	3.5mm	102mm	4.8mm	1
CE-4.0mm-2	**4.0mm**	**102mm**	**4.8mm**	**1**
CE-4.5mm-2	4.5mm	102mm	6.3mm	1
CE-5.0mm-2	5.0mm	102mm	6.3mm	1
CE-5.5mm-2	5.5mm	102mm	7.8mm	2
CE-6.0mm-2	**6.0mm**	**102mm**	**8.6mm**	**2**
CE-6.5mm-2	6.5mm	102mm	9.3mm	2
CE-7.0mm-2	7.0mm	102mm	9.3mm	2
CE-7.5mm-2	7.5mm	102mm	10.9mm	2
CE-8.0mm-2	**8.0mm**	**102mm**	**10.9mm**	**2**
CE-8.5mm-2	8.5mm	102mm	10.9mm	2
CE-9.0mm-2	9.0mm	114mm	12.7mm	2
CE-9.5mm-2	9.5mm	114mm	12.7mm	2
CE-10.0mm-2	**10.0mm**	**114mm**	**12.7mm**	**2**
CE-10.5mm-2	10.5mm	127mm	12.7mm	2
CE-11.0mm-2	11.0mm	140mm	12.7mm	2
CE-11.5mm-2	11.5mm	140mm	12.7mm	2
CE-1.02mm-2	**12.0mm**	**140mm**	**12.7mm**	**2**
CE-12.5mm-2	12.5mm	152mm	12.7mm	2
CE-13.0mm-2	13.0mm	152mm	12.7mm	2
CE-13.5mm-2	13.5mm	152mm	12.7mm	2
CE-14.0mm-2	**14.0mm**	**152mm**	**12.7mm**	**2**
CE-2.0mm-20	2.0mm	6.3mm	4.0mm	1
CE-2.5mm-20	2.5mm	102mm	4.8mm	1
CE-3.0mm-20	3.0mm	102mm	4.8mm	1
CE-3.5mm-20	**3.5mm**	**102mm**	**4.8mm**	**1**
CE-4.0mm-20	4.0mm	102mm	4.8mm	1
CE-4.5mm-20	4.5mm	102mm	6.3mm	1
CE-5.0mm-20	5.0mm	102mm	6.3mm	1
CE-5.5mm-20	**5.5mm**	**102mm**	**7.8mm**	**2**
CE-6.0mm-20	6.0mm	102mm	8.6mm	2
CE-6.5mm-20	6.5mm	102mm	9.3mm	2
CE-7.0mm-20	7.0mm	102mm	9.3mm	2
CE-7.5mm-20	**7.5mm**	**102mm**	**10.9mm**	**2**
CE-8.0mm-20	8.0mm	102mm	10.9mm	2
CE-8.5mm-20	8.5mm	102mm	10.9mm	2
CE-9.0mm-20	9.0mm	114mm	12.7mm	2
CE-9.5mm-20	**9.5mm**	**114mm**	**12.7mm**	**2**
CE-10.0mm-20	10.0mm	114mm	12.7mm	2
CE-10.5mm-20	10.5mm	127mm	12.7mm	2
CE-11.0mm-20	11.0mm	140mm	12.7mm	2
CE-11.5mm-20	**11.5mm**	**140mm**	**12.7mm**	**2**
CE-1.02mm-20	12.0mm	140mm	12.7mm	2
CE-12.5mm-20	12.5mm	152mm	12.7mm	2
CE-13.0mm-20	13.0mm	152mm	12.7mm	2
CE-13.5mm-20	**13.5mm**	**152mm**	**12.7mm**	**2**
CE-14.0mm-20	14.0mm	152mm	12.7mm	2

MADE IN THE USA

Burr-Zit™ Tool Speed & Feed Recommendations:

Ferrous Metals:
Speed 40-50 S.F.M.
Feed: .007-.010 I.P.R.

Non-Ferrous Metals:
Speed 80-90 S.F.M.
Feed: .007-.010 I.P.R.

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

Whitney Burr-Zit™ Available Coatings

Titanium Nitride- bright gold in color with a surface hardness reaching 81 R/C and a .4 coefficient of friction. TiN has excellent corrosion resistance, heat transmission and wear resistance with a wide range of materials, including iron based materials, hardened steels and stainless steel. Increased tool life can run 3 to 8 times greater than uncoated tools.

Titanium Aluminum Nitride- purple in color with a surface hardness reaching 92 R/C and a coefficient of friction less than the TiN coating. TiAlN coating is a high performance coating which excels at de-burring abrasive and difficult to machine materials such as cast iron, aluminum alloys, tool steels, and nickel alloys. TiAlN does not exhibit edge brittleness and will not chip on heavy impact applications. TiAlN coating should be targeted at applications that generate the highest heat level at the tool's cutting edge.

Hardlube- black in color with a surface hardness reaching 92 R/C. This unique coating has a low friction coefficient of .2 with the advantages of an extremely hard, thermally stable TiAlN coating. Hardlube coated de-burring tools deliver excellent results in cutting problematic, long chipping materials (soft steels, stainless steels and aluminum alloys) dry or with minimal coolant. A top-notch choice when a high lubricity coating is needed.

Titanium Carbonitride- steel blue in color with a surface hardness reaching 92 R/C and a .4 coefficient of friction. TiCN coatings offer improved wear resistance to abrasive, adhesive, or difficult to de-burr materials such as cast iron, tool steels, inconel and titanium alloys. Tool life can be increased as much as 800% depending on the application.

Whitney Six and Ten Piece Toolkits

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).

ToolKit No. **K8201**

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

ToolKit No. **K8321**

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"

Whitney 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

Blade Type

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

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

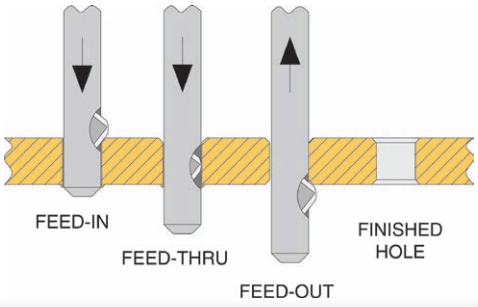
Tungsten Carbide blades available for sizes 1/8 through #110.

DA Double Cutting

BA Back Cutting

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

Typical Operation

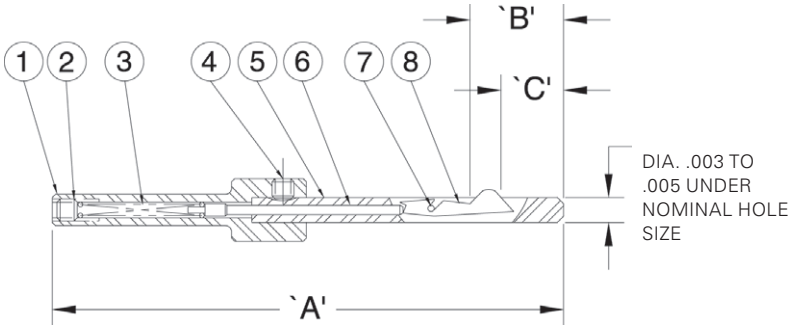


Removing or Replacing Blades

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.

Style HA - Pilot Length May Be Shortened To Suit

Hole Size			A	B	C	
Inches	Dec. Equiv.	mm	Inch	Inch	Inch	Blade Size
2.0mm	.078	2.00	3.38	.45	.28	3/32
3/32	.093	2.38				
2.5mm	.098	2.50				
7/64	.109	2.77			.25	1/8
3.0mm	.118	3.00				
1/8	.125	3.17				
3.5mm	.137	3.50				
9/64	.140	3.57				5/32
5/32	.156	3.96				
4.0mm	.157	4.00				
11/64	.171	4.36				
4.5mm	.177	4.50	4.25	.72	.44	3/16
3/16	.187	4.76				
5.0mm	.196	5.00				
13/64	.203	5.15				



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

Whitney Handi-Burr™ Tools

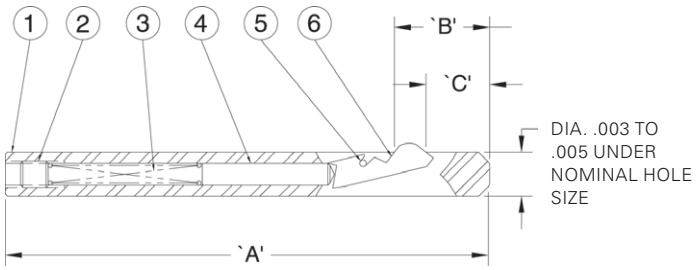
Style HB -
Pilot Length May Be Shortened To Suit

Adaptor Assembly

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

Arbor Assembly

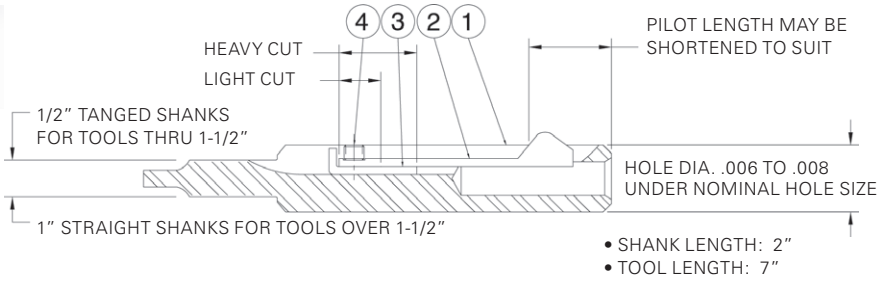
5. Arbor
6. Plunger
7. Pivot Pin
8. Blade



Hole Size			A	B	C	
Inches	DEC. Equiv.	mm	Inch	Inch	Inch	Blade Size
5.5mm	.216	5.50	4.50	.87	.56	#1
7/32	.218	5.55				
15/64	.234	5.95				
6.0mm	.236	6.00				
1/4	.250	6.35				
6.5mm	.255	6.50				
17/64	.265	6.75				
7.0mm	.275	7.00				
9/32	.281	7.14				
7.5mm	.295	7.50		.96	.68	#2
19/64	.296	7.54				
5/16	.312	7.94				
8.0mm	.315	8.00				
21/64	.328	8.33				
8.5mm	.334	8.50				
11/32	.343	8.73				
9.0mm	.354	9.00	5.00	1		#3
23/64	.359	9.13				
9.5mm	.374	9.50				
3/8	.375	9.53				
25/64	.390	9.92				
10.0mm	.393	10.00				
13/32	.406	10.33				
10.5mm	.413	10.50	5.50	1.03	.73	#3-1/2
27/64	.421	10.71				
11.0mm	.433	11.00				
7/16	.437	11.11				
11.5mm	.452	11.50				
29/64	.453	11.51				
15/32	.468	11.91				

Hole Size			A	B	C	
Inches	DEC. Equiv.	mm	Inch	Inch	Inch	Blade Size
12.0mm	.472	12.00	5.50	1.03	.73	#3-1/2
31/64	.484	12.30				
12.5mm	.492	12.50				
1/2	.500	12.70				
13.0mm	.511	13.00				
33/64	.515	13.10				
17/32	.531	13.49				
13.5mm	.513	13.50				
35/64	.546	13.89	6.44	1.31	.91	#4
14.0mm	.551	14.00				
9/16	.562	14.29				
14.5mm	.570	14.50				
37/64	.578	14.68				
15.0mm	.590	15.00				
19/32	.593	15.08				
39/64	.609	15.47				
15.5mm	.610	15.50				
5/8	.625	15.87				
16.0mm	.629	16.00				
41/64	.640	16.27				
16.5mm	.649	16.50				
21/32	.656	16.67				
17.0mm	.669	17.00				
43/64	.671	17.07				
11/16	.687	17.46				
17.5mm	.689	17.50				
18.0mm	.708	18.00				
18.5mm	.728	18.50				
19.0mm	.748	19.00				
3/4	.750	19.05				

Style HC -
Pilot Length May Be Shortened To Suit



Hole Size		
Inches	DEC. Equiv.	mm
3/4	.750	19.05
20.1mm	.787	20.00
13/16	.812	20.63
7/8	.875	22.22
15/16	.937	23.81
25.0mm	.984	25.00
1	1.000	25.40
1-1/16	1.062	26.98
1-1/8	1.125	28.57
30.0mm	1.181	30.00
1-3/16	1.187	30.16

Hole Size		
Inches	DEC. Equiv.	mm
1-1/4	1.250	31.75
1-5/16	1.312	33.33
1-3/8	1.375	34.93
35.0mm	1.378	35.00
1-1/2	1.500	38.10
40.0mm	1.574	40.00
1-5/8	1.625	41.27
1-3/4	1.750	44.45
45.0mm	1.771	45.00
50.0mm	1.968	50.00
2	2.000	50.80

Assembly

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

WHITNEY TOOL COMPANY, INC.

ISO 9001:2008 Compliant

MADE IN THE USA

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