

# Weldon Tool

Catalog 2012



WELDON®



# History

For nearly a century, the Weldon brand has been known for a strong tradition of craftsmanship, innovation and the highest standards of quality. Our deep engineering roots brought to market products like the Crest-Kut®, Zero Flute Countersink, Ski-Carb® and premium carbide end mills like the Tri-Power. Weldon's commitment helping customers maximize machine productivity is the driving force behind our round tool offering.

In support of providing you with the finest, solid-round tools in the market, we continue to re-invest in the latest manufacturing hardware, software and supporting tools.



Our objective is to provide our customers with Weldon tools that will exceed their requirements and expectations. Our pattern and level of investment are driven by these goals.

When you purchase a Weldon product, you are not only buying a tool, you will also receive the best customer and technical support in the industry. We stand behind every product made, not only in terms of product performance, but

also for inside and field technical support. Our end-use customers are manufacturers. Our business is dependent upon the health and productivity of manufacturers. We are committed to your machining productivity and success.



# How the Catalog Is Organized

We have organized this catalog in what we believe to be an easy to use systematic format, allowing the user to readily find the needed information.

## Table of Contents

This section allows you to quickly reference the substrate or type of tool you are looking for. We have divided the catalog into sections; Premium Carbide, Crest-Kuts<sup>®</sup>, BullDog<sup>®</sup> Roughers, General Purpose High Speed Steel, General Purpose Cobalt and Specialty Tools. At the beginning of each section there is an expanded listing that provides information such as; number of flutes, single end /double end, helix angle and center cutting /non center cutting.

Surface Treatments and Coatings.....	Page 2
Premium Carbide End Mills.....	Page 5
Crest-Kuts <sup>®</sup> .....	Page 33
BullDog <sup>®</sup> Roughers.....	Page 45
M-7, HSS End Mills.....	Page 61
M-42, HSS End Mills.....	Page 79
Powdered Metal End Mills.....	Page 91
Countersinks and Specialty Tools.....	Page 97

## Tool Series and EDP Number Index








New for this catalog, we have placed an EDP index in the back of the catalog that allows you to find the page number of a specific tool when the EDP number is known.

Decimal Chart.....	Page 106
Request a Quote.....	Page 107
EDP Number Index.....	Page 108
How to Order.....	Inside Back Cover



## Coatings

All of our tools are available in a variety of application specific surface treatments and coatings. Please see individual tool listings for stocked treatments and coatings. Other treatments and coatings are available upon request. These surface treatments and coatings are designed to enhance performance as well as the life of the tool. The chart below is a handy reference outlining the surface treatment and coating composition as well as the suggested application. If the material you are preparing to machine is not listed, please give us a call and we can help.

	Code No.	Composition	Characteristics	Application
	69	Amorphous Diamond Coating	Synthetic diamond. Low co-efficient of friction. Approximately three times harder than TiCN.	High abrasive applications, graphite, fiberglass, ceramics and composites.
	70	Aluminum Chromium Nitride (AlCrN)	Excellent coating that provides high oxidation resistance and high temperature wear resistance.	Very effective in wet/dry milling of steels, cast iron, aerospace inconel and titanium alloys.
	84	Titanium Aluminum Nitride (TiAlN)	A very hard coating recommended for harder alloys which has very good wear resistance, reduces friction and prevents galling.	Titanium, titanium alloys, nickel-base alloys, stainless steel and cast iron. Effective at higher speed. Not recommended for wrought aluminum, copper or brass.
	85	Aluminum Titanium Nitride (AlTiN)	An extremely hard coating very similar to TiAlN with outstanding wear resistance. AlTiN has a higher aluminum content which makes it harder and smoother than TiAlN.	Very effective in the same materials as TiAlN. Excellent for small depths of cut and excels in high speed and dry machining applications.
	86	Zirconium Nitride (ZrN)	A thin hard coating that improves lubricity and increases oxidation resistance. Specifically designed for machining abrasive and gummy materials.	Suitable for machining aluminum alloys, high silica aluminum, cast iron, high temperature alloys, stainless steel and glass filled plastics. Not recommended for machining carbon steels.
	88	Titanium Nitride (TiN)	A general purpose coating which has excellent wear resistance, reduces friction and prevents galling.	Most ferrous materials. Although it's unlikely, galling may occur in titanium and titanium alloys. (Not recommended for aluminum.)
	89	Titanium Carbo Nitride (TiCN)	An extremely hard coating which has outstanding wear resistance, reduces friction and prevents galling.	Most ferrous, non-ferrous and non-metallic materials. Very effective at higher speeds. Although it's unlikely galling may occur in titanium and titanium alloys.
	00	NO COATING		



# Premium Carbide Tool Application Guide

For both our Aluminum/Non-ferrous and our Ferrous Alloy offerings, we provide tool application guidelines as part of the table of contents for each material application section. Tools are arrayed in a continuum from primarily roughing to primarily finishing operations. In the middle are those tools which can perform well as rougher/finishers. This table and the recommendations below should assist in tool selection and application. As always, additional application assistance is available from our technical service department.

## Aluminum and Non-Ferrous Alloys



Series	Description	Page
<b>2AR</b>	2 Flute, 40 Degree Helix, Roughing, will profile, slot and Pocket.	6
<b>2AR-BN</b>	2 Flute, 40 Degree Helix for Contour Milling, Roughing. Ball Nose.	8
<b>Ski-Carb®</b>	2 Flute, 45 Degree Helix, for Roughing and Finishing.	10
<b>Tri-Power<sup>3</sup>®</b>	3 Flute, 45 Degree Helix, for Finishing and Roughing.	12
<b>3AF</b>	3 Flute, 40 Degree Helix, for Finishing.	14

## Steel and Ferrous Alloys



Series	Description	Page
<b>3SR</b>	3 Flute, 40 Degree Helix, will slot and profile	20
<b>4SV</b>	4 Flute, 40 Degree Helix, Variable Index, Rougher	22
<b>4SR</b>	4 Flute, 40 Degree Helix, Rougher/Finisher	24
<b>4SR-BN</b>	4 Flute, 40 Degree Helix, Rougher/Finisher	26
<b>5SF</b>	5 Flute, 40 Degree Helix, Finisher, Profile Rougher	28

# WELDDOM





# Weldon® Premium Carbide for Aluminum & Non-Ferrous Alloys

Weldon's Premium Carbide line of end mills has been engineered to machine Aluminum and Non-Ferrous Alloys in roughing, finishing and somewhere in between. The following pages address not only the material machining but also if the operation requires pure roughing, roughing-finishing or a finishing cut only. Weldon® has engineered its line of Premium Carbide end mills to maximize machine time and tool life.



## Aluminum and Non-Ferrous Alloys



Series	Description	Page
2AR	2 Flute, 40 Degree Helix, Roughing, will profile, slot and Pocket.	6
2AR-BN	2 Flute, 40 Degree Helix for Contour Milling, Roughing. Ball Nose.	8
Ski-Carb®	2 Flute, 45 Degree Helix, for Roughing and Finishing.	10
Tri-Power <sup>3®</sup>	3 Flute, 45 Degree Helix, for Finishing and Roughing.	12
3AF	3 Flute, 40 Degree Helix, for Finishing.	14



The 2AR is designed for roughing in non-ferrous alloys where the application demands a high metal removal. The high helix combined with a cylindrical margin allows for a chatter resistant, smooth machining in all non-ferrous alloys.

### Speed in Surface Feet per Minute (SFM)

Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass	Magnesium
Diameter	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass	Cast, Wrought
	SFM	800 - Max	250 - 600	600 - 1000	700 - 1000	500 - 900	500 - 900
1/4"	S	0.0030	0.0028	0.0024	0.0024	0.0024	0.0024
	HP	0.0038	0.0038	0.0034	0.0034	0.0034	0.0034
	LP	0.0047	0.0052	0.0048	0.0048	0.0048	0.0048
3/8"	S	0.0045	0.0042	0.0036	0.0036	0.0036	0.0036
	HP	0.0058	0.0058	0.0051	0.0051	0.0051	0.0051
	LP	0.0071	0.0078	0.0071	0.0071	0.0071	0.0071
1/2"	S	0.0070	0.0070	0.0060	0.0060	0.0060	0.0060
	HP	0.0090	0.0090	0.0080	0.0080	0.0080	0.0080
	LP	0.0110	0.0110	0.0100	0.0100	0.0100	0.0100
5/8"	S	0.0075	0.0071	0.0061	0.0061	0.0061	0.0061
	HP	0.0096	0.0096	0.0086	0.0086	0.0086	0.0086
	LP	0.0118	0.0131	0.0119	0.0119	0.0119	0.0119
3/4"	S	0.0079	0.0075	0.0064	0.0064	0.0064	0.0064
	HP	0.0109	0.0109	0.0097	0.0097	0.0097	0.0097
	LP	0.0134	0.0149	0.0135	0.0135	0.0135	0.0135
1"	S	0.0126	0.0119	0.0102	0.0102	0.0102	0.0102
	HP	0.0162	0.0162	0.0144	0.0144	0.0144	0.0144
	LP	0.0198	0.0220	0.0200	0.0200	0.0200	0.0200

**S = SLOTTING**  
Axial Depth up to  
1.0 x Diameter

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.5 x Diameter  
Radial width .3 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to  
2.0 x Diameter  
Radial width .02 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# 2AR-2 Flute Rougher

# Premium Carbide

- 40 Degree Helix for Enhance Chip Evacuation
- Roughing in Aluminum and Non-Ferrous Alloys
- Cylindrical Margin for Chatter Resistant, Smooth Machining

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	EDP	TiCN EDP	ZrN EDP
2AR-04-04	1/8	1/8	1/4	1-1/2	58700-00-W	58700-89-W	58700-86-W
2AR-04-08	1/8	1/8	3/8	1-1/2	58705-00-W	58705-89-W	58705-86-W
2AR-05-05	5/32	3/16	5/16	2	58711-00-W	58711-89-W	58711-86-W
2AR-05-09	5/32	3/16	9/16	2	58717-00-W	58717-89-W	58717-86-W
2AR-06-05	3/16	3/16	5/16	2	58723-00-W	58723-89-W	58723-86-W
2AR-06-09	3/16	3/16	9/16	2	58728-00-W	58728-89-W	58728-86-W
2AR-07-06	7/32	1/4	3/8	2-1/2	58731-00-W	58731-89-W	58731-86-W
2AR-07-12	7/32	1/4	3/4	2-1/2	58734-00-W	58734-89-W	58734-86-W
2AR-08-06	1/4	1/4	3/8	2-1/2	58737-00-W	58737-89-W	58737-86-W
2AR-08-12	1/4	1/4	3/4	2-1/2	58740-00-W	58740-89-W	58740-86-W
2AR-08-20	1/4	1/4	1-1/4	3-1/4	58743-00-W	58743-89-W	58743-86-W
2AR-08-24	1/4	1/4	1-1/2	3-1/2	58746-00-W	58746-89-W	58746-86-W
2AR-08-32	1/4	1/4	2	4	58749-00-W	58749-89-W	58749-86-W
2AR-09-07	9/32	5/16	7/16	2-1/2	58752-00-W	58752-89-W	58752-86-W
2AR-09-13	9/32	5/16	13/16	2-1/2	58755-00-W	58755-89-W	58755-86-W
2AR-10-07	5/16	5/16	7/16	2-1/2	58758-00-W	58758-89-W	58758-86-W
2AR-10-13	5/16	5/16	13/16	2-1/2	58761-00-W	58761-89-W	58761-86-W
2AR-10-20	5/16	5/16	1-1/4	3-1/2	58764-00-W	58764-89-W	58764-86-W
2AR-10-26	5/16	5/16	1-5/8	3-1/2	58767-00-W	58767-89-W	58767-86-W
2AR-10-34	5/16	5/16	2-1/8	4	58770-00-W	58770-89-W	58770-86-W
2AR-11-08	11/32	3/8	1/2	2-1/2	58773-00-W	58773-89-W	58773-86-W
2AR-11-16	11/32	3/8	1	2-1/2	58776-00-W	58776-89-W	58776-86-W
2AR-12-08	3/8	3/8	1/2	2-1/2	58779-00-W	58779-89-W	58779-86-W
2AR-12-16	3/8	3/8	1	2-1/2	58782-00-W	58782-89-W	58782-86-W
2AR-12-24	3/8	3/8	1-1/2	4	58785-00-W	58785-89-W	58785-86-W
2AR-12-32	3/8	3/8	2	4	58788-00-W	58788-89-W	58788-86-W
2AR-12-40	3/8	3/8	2-1/2	6	58791-00-W	58791-89-W	58791-86-W
2AR-14-09	7/16	7/16	9/16	2-3/4	58695-00-W	58695-89-W	58695-86-W
2AR-14-20	7/16	7/16	1-1/4	2-3/4	58796-00-W	58796-89-W	58796-86-W
2AR-16-10	1/2	1/2	5/8	3	58799-00-W	58799-89-W	58799-86-W
2AR-16-20	1/2	1/2	1-1/4	3	58802-00-W	58802-89-W	58802-86-W
2AR-16-26	1/2	1/2	1-5/8	4	58805-00-W	58805-89-W	58805-86-W
2AR-16-32	1/2	1/2	2	4	58808-00-W	58808-89-W	58808-86-W
2AR-16-40	1/2	1/2	2-1/2	5	58811-00-W	58811-89-W	58811-86-W
2AR-16-50	1/2	1/2	3-1/8	6	58814-00-W	58814-89-W	58814-86-W
2AR-20-12	5/8	5/8	3/4	3-1/2	58817-00-W	58817-89-W	58817-86-W
2AR-20-26	5/8	5/8	1-5/8	3-1/2	58820-00-W	58820-89-W	58820-86-W
2AR-20-34	5/8	5/8	2-1/8	4	58823-00-W	58823-89-W	58823-86-W
2AR-20-40	5/8	5/8	2-1/2	5	58826-00-W	58826-89-W	58826-86-W
2AR-20-52	5/8	5/8	3-1/4	6	58829-00-W	58829-89-W	58829-86-W
2AR-20-60	5/8	5/8	3-3/4	6	58832-00-W	58832-89-W	58832-86-W
2AR-24-16	3/4	3/4	1	4	58835-00-W	58835-89-W	58835-86-W
2AR-24-26	3/4	3/4	1-5/8	4	58838-00-W	58838-89-W	58838-86-W
2AR-24-36	3/4	3/4	2-1/4	5	58841-00-W	58841-89-W	58841-86-W
2AR-24-52	3/4	3/4	3-1/4	6	58844-00-W	58844-89-W	58844-86-W
2AR-24-64	3/4	3/4	4	6-1/2	58847-00-W	58847-89-W	58847-86-W
2AR-32-20	1	1	1-1/4	5	58850-00-W	58850-89-W	58850-86-W
2AR-32-32	1	1	2	5	58853-00-W	58853-89-W	58853-86-W
2AR-32-42	1	1	2-5/8	6	58856-00-W	58856-89-W	58856-86-W
2AR-32-52	1	1	3-1/4	6	58859-00-W	58859-89-W	58859-86-W
2AR-32-66	1	1	4-1/8	7	58862-00-W	58862-89-W	58862-86-W



The 2AR-BN is a ball nose premium carbide end mill for roughing non-ferrous alloys where the application demands a high metal removal rate. The 40 degree helix with a cylindrical margin for chatter resistant smooth machining in all non-ferrous alloys.

### Speed in Surface Feet per Minute (SFM)

Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass	Magnesium
Diameter	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass	Cast, Wrought
	SFM	800 - Max	250 - 600	600 - 1000	700 - 1000	500 - 900	500 - 900
1/4"	S	0.0026	0.0024	0.0020	0.0020	0.0020	0.0020
	HP	0.0034	0.0034	0.0030	0.0030	0.0030	0.0030
	LP	0.0043	0.0048	0.0043	0.0043	0.0043	0.0043
3/8"	S	0.0038	0.0036	0.0030	0.0030	0.0030	0.0030
	HP	0.0051	0.0051	0.0045	0.0045	0.0045	0.0045
	LP	0.0064	0.0071	0.0064	0.0064	0.0064	0.0064
1/2"	S	0.0060	0.0060	0.0050	0.0050	0.0050	0.0050
	HP	0.0080	0.0080	0.0070	0.0070	0.0070	0.0070
	LP	0.0100	0.0100	0.0090	0.0090	0.0090	0.0090
5/8"	S	0.0064	0.0061	0.0050	0.0050	0.0050	0.0050
	HP	0.0086	0.0086	0.0075	0.0075	0.0075	0.0075
	LP	0.0107	0.0119	0.0107	0.0107	0.0107	0.0107
3/4"	S	0.0068	0.0064	0.0054	0.0054	0.0054	0.0054
	HP	0.0097	0.0097	0.0085	0.0085	0.0085	0.0085
	LP	0.0122	0.0135	0.0122	0.0122	0.0122	0.0122
1"	S	0.0108	0.0102	0.0085	0.0085	0.0085	0.0085
	HP	0.0144	0.0144	0.0126	0.0126	0.0126	0.0126
	LP	0.0180	0.0200	0.0180	0.0180	0.0180	0.0180

**S = SLOTTING**  
Axial Depth up to  
1.0 x Diameter

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.5 x Diameter  
Radial width .3 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to  
2.0 x Diameter  
Radial width .02 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# 2AR-BN Ball Nose, 2 Flute Rougher

# Premium Carbide

- 40 Degree Helix for Enhance Chip Evacuation
- Roughing in Aluminum and Non-Ferrous Alloys
- Cylindrical Margin for Chatter Resistant, Smooth Machining
- Plain Cylindrical Shank

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	EDP	TiCN EDP	ZrN EDP
2AR-BN-04-04	1/8	1/8	1/4	1-1/2	59824-00-W	59824-89-W	59824-86-W
2AR-BN-04-08	1/8	1/8	3/8	1-1/2	59827-00-W	59827-89-W	59827-86-W
2AR-BN-05-05	5/32	3/16	5/16	2	59830-00-W	59830-89-W	59830-86-W
2AR-BN-05-09	5/32	3/16	9/16	2	59833-00-W	59833-89-W	59833-86-W
2AR-BN-06-05	3/16	3/16	5/16	2	59836-00-W	59836-89-W	59836-86-W
2AR-BN-06-09	3/16	3/16	9/16	2	59839-00-W	59839-89-W	59839-86-W
2AR-BN-07-06	7/32	1/4	3/8	2-1/2	59842-00-W	59842-89-W	59842-86-W
2AR-BN-07-12	7/32	1/4	3/4	2-1/2	59845-00-W	59845-89-W	59845-86-W
2AR-BN-08-06	1/4	1/4	3/8	2-1/2	59848-00-W	59848-89-W	59848-86-W
2AR-BN-08-12	1/4	1/4	3/4	2-1/2	59851-00-W	59851-89-W	59851-86-W
2AR-BN-09-07	9/32	5/16	7/16	2	59854-00-W	59854-89-W	59854-86-W
2AR-BN-09-13	9/32	5/16	13/16	2-1/2	59857-00-W	59857-89-W	59857-86-W
2AR-BN-10-07	5/16	5/16	7/16	2-1/2	59860-00-W	59860-89-W	59860-86-W
2AR-BN-10-13	5/16	5/16	13/16	2-1/2	59863-00-W	59863-89-W	59863-86-W
2AR-BN-11-08	11/32	3/8	1/2	2-1/2	59866-00-W	59866-89-W	59866-86-W
2AR-BN-11-16	11/32	3/8	1	2-1/2	59869-00-W	59869-89-W	59869-86-W
2AR-BN-12-08	3/8	3/8	1/2	2-1/2	59872-00-W	59872-89-W	59872-86-W
2AR-BN-12-16	3/8	3/8	1	2-1/2	59875-00-W	59875-89-W	59875-86-W
2AR-BN-14-09	7/16	7/16	9/16	2-3/4	59878-00-W	59878-89-W	59878-86-W
2AR-BN-14-20	7/16	7/16	1-1/4	2-3/4	59881-00-W	59881-89-W	59881-86-W
2AR-BN-16-10	1/2	1/2	5/8	3	59884-00-W	59884-89-W	59884-86-W
2AR-BN-16-20	1/2	1/2	1-1/4	3	59887-00-W	59887-89-W	59887-86-W
2AR-BN-20-12	5/8	5/8	3/4	3-1/2	59890-00-W	59890-89-W	59890-86-W
2AR-BN-20-26	5/8	5/8	1-5/8	3-1/2	59893-00-W	59893-89-W	59893-86-W
2AR-BN-24-16	3/4	3/4	1	4	59896-00-W	59896-89-W	59896-86-W
2AR-BN-24-26	3/4	3/4	1-5/8	4	59899-00-W	59899-89-W	59899-86-W
2AR-BN-32-20	1	1	1-1/4	5	59902-00-W	59902-89-W	59902-86-W
2AR-BN-32-32	1	1	2	5	59905-00-W	59905-89-W	59905-86-W



The Ski-Carb® was designed specifically for machining aluminum at maximum speeds on both conventional, CNC and high performance machining centers. The 45 degree helix provides greater shearing action, improved workpiece finish and contributes to the chip ejection forces initiated by the Ski-Land.

### Speed in Surface Feet per Minute (SFM)

Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass	Magnesium
Diameter	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass	Cast, Wrought
	SFM	800 - Max	250 - 600	600 - 1000	700 - 1000	500 - 900	500 - 900
1/4"	S	0.0034	0.0032	0.0028	0.0028	0.0028	0.0024
	HP	0.0043	0.0043	0.0038	0.0038	0.0038	0.0034
	LP	0.0051	0.0057	0.0052	0.0052	0.0052	0.0048
3/8"	S	0.0051	0.0048	0.0042	0.0042	0.0042	0.0036
	HP	0.0064	0.0064	0.0058	0.0058	0.0058	0.0051
	LP	0.0077	0.0086	0.0078	0.0078	0.0078	0.0071
1/2"	S	0.0080	0.0080	0.0070	0.0070	0.0070	0.0060
	HP	0.0100	0.0100	0.0090	0.0090	0.0090	0.0080
	LP	0.0120	0.0120	0.0110	0.0110	0.0110	0.0100
5/8"	S	0.0086	0.0081	0.0071	0.0071	0.0071	0.0061
	HP	0.0107	0.0107	0.0096	0.0096	0.0096	0.0086
	LP	0.0128	0.0143	0.0131	0.0131	0.0131	0.0119
3/4"	S	0.0091	0.0086	0.0075	0.0075	0.0075	0.0064
	HP	0.0122	0.0122	0.0109	0.0109	0.0109	0.0097
	LP	0.0146	0.0162	0.0149	0.0149	0.0149	0.0135
1."	S	0.0144	0.0136	0.0119	0.0119	0.0119	0.0102
	HP	0.0180	0.0180	0.0162	0.0162	0.0162	0.0144
	LP	0.0216	0.0240	0.0220	0.0220	0.0220	0.0200

**S = SLOTTING**  
Axial Depth up to  
1.0 x Diameter

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.5 x Diameter  
Radial width .3 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to Effective Length of Cut  
Radial width .03 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





- Maximum Speeds
- Increased Feed Rates
- Superior Work Piece Finish
- Fast Chip Ejection

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Plain Shank Part Number	Flatted Shank Part Number	Dia.	Shank	LOC	OAL	Plain Shank EDP	Flatted Shank EDP
NFSKXC8-2	SKXC8-2	1/4	1/4	3/4	2-1/2	69071-00-W	57410-00-W
NFSKXC8-2A	SKXC8-2A	1/4	1/4	1-1/4	3	69072-00-W	57412-00-W
NFSKXC8-2B	SKXC8-2B	1/4	1/4	1-3/4	4	69073-00-W	57414-00-W
NFSKXC10-2A	SKXC10-2A	5/16	5/16	1-3/8	3	69074-00-W	57420-00-W
NFSKXC12-2	SKXC12-2	3/8	3/8	3/4	2-1/2	69075-00-W	57430-00-W
NFSKXC12-2A	SKXC12-2A	3/8	3/8	1-1/2	3	69076-00-W	57432-00-W
NFSKXC12-2B	SKXC12-2B	3/8	3/8	2-1/2	4	69077-00-W	57434-00-W
NFSKXC16-3	SKXC16-3	1/2	1/2	1-1/4	3	69078-00-W	57440-00-W
NFSKXC16-3A	SKXC16-3A	1/2	1/2	2	4	69079-00-W	57442-00-W
NFSKXC16-3B	SKXC16-3B	1/2	1/2	3	5	69080-00-W	57444-00-W
NFSKXC20-4	SKXC20-4	5/8	5/8	1-5/8	3-1/2	69081-00-W	57450-00-W
NFSKXC20-4A	SKXC20-4A	5/8	5/8	2-1/2	5	69082-00-W	57452-00-W
NFSKXC24-5	SKXC24-5	3/4	3/4	1-5/8	4	69083-00-W	57460-00-W
NFSKXC24-5B	SKXC24-5B	3/4	3/4	3	6	69084-00-W	57462-00-W
NFSKXC24-5D	SKXC24-5D	3/4	3/4	4	7	69085-00-W	57464-00-W
NFSKXC32-7	SKXC32-7	1	1	2	5	69086-00-W	57470-00-W
NFSKXC32-7B	SKXC32-7B	1	1	4	7	69087-00-W	57472-00-W



The Tri-Power<sup>3</sup>® is a patented three flute premium carbide end mill designed for roughing and finishing in aluminum and non-ferrous alloys. The high shear, 45 degree helix and improved inter-flute geometries enhance chip evacuation and permit increased chip loads as well as aggressive feed rates.

### Speed in Surface Feet per Minute (SFM)

Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass	Magnesium
Diameter	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass	Cast, Wrought
	SFM	800 - Max	250 - 600	600 - 1000	700 - 1000	500 - 900	500 - 900
1/4"	HP	0.0032	0.0030	0.0026	0.0026	0.0026	0.0026
	LP	0.0041	0.0041	0.0036	0.0036	0.0036	0.0036
	FINISH	0.0049	0.0055	0.0045	0.0045	0.0045	0.0045
5/16"	HP	0.0038	0.0035	0.0030	0.0030	0.0030	0.0030
	LP	0.0048	0.0047	0.0041	0.0041	0.0041	0.0041
	FINISH	0.0059	0.0062	0.0056	0.0056	0.0056	0.0056
3/8"	HP	0.0048	0.0045	0.0039	0.0039	0.0039	0.0039
	LP	0.0061	0.0061	0.0055	0.0055	0.0055	0.0055
	FINISH	0.0074	0.0082	0.0068	0.0068	0.0068	0.0068
1/2"	HP	0.0075	0.0075	0.0065	0.0065	0.0065	0.0065
	LP	0.0095	0.0095	0.0085	0.0085	0.0085	0.0085
	FINISH	0.0115	0.0115	0.0095	0.0095	0.0095	0.0095
5/8"	HP	0.0080	0.0076	0.0066	0.0066	0.0066	0.0066
	LP	0.0102	0.0102	0.0091	0.0091	0.0091	0.0091
	FINISH	0.0123	0.0137	0.0113	0.0113	0.0113	0.0113
3/4"	HP	0.0085	0.0080	0.0070	0.0070	0.0070	0.0070
	LP	0.0115	0.0115	0.0103	0.0103	0.0103	0.0103
	FINISH	0.0140	0.0155	0.0128	0.0128	0.0128	0.0128
1"	HP	0.0135	0.0128	0.0111	0.0111	0.0111	0.0111
	LP	0.0171	0.0171	0.0153	0.0153	0.0153	0.0153
	FINISH	0.0207	0.0230	0.0190	0.0190	0.0190	0.0190

**HP = HEAVY PERIPHERAL**

Axial Depth up to  
1.0 x Diameter  
Radial width .3 x Diameter

**LP = LIGHT PERIPHERAL**

Axial Depth up to Effective Length of Cut  
Radial width .25 x Diameter

**FINISH = FINISH OPERATION**

Axial Depth up to Effective Length of Cut  
Radial width .03 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# Tri-Power<sup>3</sup>® 3 Flute Finisher/Rougher

# Premium Carbide

- 45 Degree Helix for Enhance Chip Evacuation
- Stocked Stub, Regular and Reduce Neck
- Plain Cylindrical Shank
- Three Flutes Permit High Machine Productivity

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Radius

Part Number	Dia.	Shank	LOC	OAL	LBS*	Neck Dia.	EDP	ZrN EDP
WTP-ST-30250	1/4	1/4	3/8	2			57500-00-W	57500-86-W
WTP-30250	1/4	1/4	3/4	2-1/2			57501-00-W	57501-86-W
WTP-RN-30250	1/4	1/4	3/8	2-1/2	1-1/8	.235	57502-00-W	57502-86-W
WTP-RN-M-30250	1/4	1/4	3/8	4	2-1/8	.235	57503-00-W	57503-86-W
WTP-ST-30312	5/16	5/16	7/16	2-1/2			57504-00-W	57504-86-W
WTP-30312	5/16	5/16	13/16	2-1/2			57505-00-W	57505-86-W
WTP-RN-30312	5/16	5/16	7/16	2-1/2	1-1/8	.290	57506-00-W	57506-86-W
WTP-RN-M-30312	5/16	5/16	7/16	4	2-1/8	.290	57507-00-W	57507-86-W
WTP-ST-30375	3/8	3/8	1/2	2-1/2			57508-00-W	57508-86-W
WTP-30375	3/8	3/8	1	2-1/2			57509-00-W	57509-86-W
WTP-RN-30375	3/8	3/8	1/2	2-1/2	1-1/8	.355	57510-00-W	57510-86-W
WTP-RN-M-30375	3/8	3/8	1/2	4	2-1/8	.355	57511-00-W	57511-86-W
WTP-ST-30500	1/2	1/2	5/8	3			57512-00-W	57512-86-W
WTP-30500	1/2	1/2	1-1/4	3			57513-00-W	57513-86-W
WTP-RN-30500	1/2	1/2	5/8	3	1-3/8	.475	57514-00-W	57514-86-W
WTP-RN-M-30500	1/2	1/2	5/8	4	2-1/8	.475	57515-00-W	57515-86-W
WTP-ST-30625	5/8	5/8	3/4	3			57516-00-W	57516-86-W
WTP-30625	5/8	5/8	1-5/8	3-1/2			57517-00-W	57517-86-W
WTP-RN-30625	5/8	5/8	3/4	4	1-5/8	.590	57518-00-W	57518-86-W
WTP-RN-M-30625	5/8	5/8	3/4	6	2-3/8	.590	57519-00-W	57519-86-W
WTP-ST-30750	3/4	3/4	1	3			57521-00-W	57521-86-W
WTP-30750	3/4	3/4	1-5/8	4			57523-00-W	57523-86-W
WTP-RN-30750	3/4	3/4	1	4	2	.715	57525-00-W	57525-86-W
WTP-RN-M-30750	3/4	3/4	1	6	2-5/8	.715	57527-00-W	57527-86-W
WTP-ST-31000	1	1	1-1/4	4			57529-00-W	57529-86-W
WTP-31000	1	1	2	5			57531-00-W	57531-86-W
WTP-RN-31000	1	1	1-1/4	5	2-5/8	.960	57532-00-W	57532-86-W
WTP-RN-M-31000	1	1	1-1/4	7	3-5/8	.960	57533-00-W	57533-86-W

\*LBS: Lenth Below Shank



These tools have a high shear 40 degree helix and come standard with a cylindrical margin to provide chatter resistant machining and superior finishes. The 3AF is intended as a finishing tool in aluminum and non-ferrous alloys.

### Speed in Surface Feet per Minute (SFM)

Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass	Magnesium
Diameter	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass	Cast, Wrought
	SFM	800 - Max	250 - 600	600 - 1000	700 - 1000	500 - 900	500 - 900
1/4"	HP	0.0026	0.0024	0.0020	0.0020	0.0020	0.0020
	LP	0.0034	0.0034	0.0030	0.0030	0.0030	0.0030
	FINISH	0.0043	0.0048	0.0043	0.0043	0.0043	0.0043
3/8"	HP	0.0038	0.0036	0.0030	0.0030	0.0030	0.0030
	LP	0.0051	0.0051	0.0045	0.0045	0.0045	0.0045
	FINISH	0.0064	0.0071	0.0064	0.0064	0.0064	0.0064
1/2"	HP	0.0060	0.0060	0.0050	0.0050	0.0050	0.0050
	LP	0.0080	0.0080	0.0070	0.0070	0.0070	0.0070
	FINISH	0.0100	0.0100	0.0090	0.0090	0.0090	0.0090
5/8"	HP	0.0064	0.0061	0.0050	0.0050	0.0050	0.0050
	LP	0.0086	0.0086	0.0075	0.0075	0.0075	0.0075
	FINISH	0.0107	0.0119	0.0107	0.0107	0.0107	0.0107
3/4"	HP	0.0068	0.0064	0.0054	0.0054	0.0054	0.0064
	LP	0.0097	0.0097	0.0085	0.0085	0.0085	0.0085
	FINISH	0.0122	0.0135	0.0122	0.0122	0.0122	0.0122
1"	HP	0.0108	0.0102	0.0085	0.0085	0.0085	0.0085
	LP	0.0144	0.0144	0.0126	0.0126	0.0126	0.0126
	FINISH	0.0180	0.0200	0.0180	0.0180	0.0180	0.0180

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.0 x Diameter  
Radial width .3 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to  
Effective Length of Cut  
Radial width .2 x Diameter

**FINISH = FINISH OPERATION**  
Axial Depth up to Effective Length of Cut  
Radial width .02 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# 3AF-3 Flute Finisher

# Premium Carbide

- 40 Degree Cylindrical Margin
- Finishing in Aluminum and Non-Ferrous Alloys
- Available with Square and Radius Ends
- Available as Uncoated, TiCN and ZrN Coatings

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	Coatings	Square 0.000	Radius Offerings				
							.030"	.060"	.090"	.120"	.156"
3AF-04-04	1/8	1/8	1/4	1-1/2	TiCN ZrN	58000-00-W					
						58000-89-W					
						58000-86-W					
3AF-04-08	1/8	1/8	3/8	1-1/2	TiCN ZrN	58005-00-W					
						58005-89-W					
						58005-86-W					
3AF-05-05	5/32	3/16	5/16	2	TiCN ZrN	58011-00-W					
						58011-89-W					
						58011-86-W					
3AF-05-09	5/32	3/16	9/16	2	TiCN ZrN	58017-00-W					
						58017-89-W					
						58017-86-W					
3AF-06-09	3/16	3/16	5/16	2	TiCN ZrN	58023-00-W					
						58023-89-W					
						58023-86-W					
3AF-06-09	3/16	3/16	9/16	2	TiCN ZrN	58029-00-W					
						58029-89-W					
						58029-86-W					
3AF-07-06	7/32	1/4	3/8	2	TiCN ZrN	58035-00-W					
						58035-89-W					
						58035-86-W					
3AF-07-12	7/32	1/4	3/4	2-1/2	TiCN ZrN	58041-00-W					
						58041-89-W					
						58041-86-W					
3AF-08-06	1/4	1/4	3/8	2	TiCN ZrN	58046-00-W	58215-00-W				
						58046-89-W	58215-89-W				
						58046-86-W	58215-86-W				
3AF-08-12	1/4	1/4	5/8	2-1/2	TiCN ZrN	58049-00-W	58217-00-W				
						58049-89-W	58217-89-W				
						58049-86-W	58217-86-W				
3AF-08-20	1/4	1/4	1-1/4	3-1/4	TiCN ZrN	58052-00-W	58219-00-W				
						58052-89-W	58219-89-W				
						58052-86-W	58219-86-W				
3AF-08-24	1/4	1/4	1-1/2	3-1/2	TiCN ZrN	58055-00-W	58221-00-W				
						58055-89-W	58221-89-W				
						58055-86-W	58221-86-W				
3AF-08-32	1/4	1/4	2	4	TiCN ZrN	58058-00-W	58223-00-W				
						58058-89-W	58223-89-W				
						58058-86-W	58223-86-W				
3AF-09-07	9/32	5/16	7/16	2	TiCN ZrN	58061-00-W					
						58061-89-W					
						58061-86-W					
3AF-09-13	9/32	5/16	13/16	2-1/2	TiCN ZrN	58064-00-W					
						58064-89-W					
						58064-86-W					
3AF-10-07	5/16	5/16	7/16	2	TiCN ZrN	58067-00-W	58225-00-W	58227-00-W			
						58067-89-W	58225-89-W	58227-89-W			
						58067-86-W	58225-86-W	58227-86-W			
3AF-10-13	5/16	5/16	5/8	2-1/2	TiCN ZrN	58070-00-W	58229-00-W	58231-00-W			
						58070-89-W	58229-89-W	58231-89-W			
						58070-86-W	58229-86-W	58231-86-W			
3AF-10-20	5/16	5/16	1-1/4	3-1/2	TiCN ZrN	58073-00-W	58233-00-W	58235-00-W			
						58073-89-W	58233-89-W	58235-89-W			
						58073-86-W	58233-86-W	58235-86-W			
3AF-10-26	5/16	5/16	1-5/8	3-1/2	TiCN ZrN	58076-00-W	58237-00-W	58239-00-W			
						58076-89-W	58237-89-W	58239-89-W			
						58076-86-W	58237-86-W	58239-86-W			
3AF-10-34	5/16	5/16	2-1/8	4	TiCN ZrN	58079-00-W	58241-00-W	58243-00-W			
						58079-89-W	58241-89-W	58243-89-W			
						58079-86-W	58241-86-W	58243-86-W			

# 3AF-3 Flute Finisher



Part Number	Dia.	Shank	LOC	OAL	Coatings	Square 0.000	Radius Offerings					
							.030"	.060"	.090"	.120"	.156"	.190"
3AF-11-08	11/32	3/8	1/2	2	TiCN ZrN	58082-00-W						
						58082-89-W						
						58082-86-W						
3AF-11-16	11/32	3/8	1	2-1/2	TiCN ZrN	58085-00-W						
						58085-89-W						
						58085-86-W						
3AF-12-08	3/8	3/8	1/2	2	TiCN ZrN	58088-00-W	58245-00-W	58246-00-W				
						58088-89-W	58245-89-W	58246-89-W				
						58088-86-W	58245-86-W	58246-86-W				
3AF-12-16	3/8	3/8	1	2-1/2	TiCN ZrN	58091-00-W	58247-00-W	58248-00-W				
						58091-89-W	58247-89-W	58248-89-W				
						58091-86-W	58247-86-W	58248-86-W				
3AF-12-24	3/8	3/8	1-1/2	3-1/2	TiCN ZrN	58094-00-W	58249-00-W	58250-00-W				
						58094-89-W	58249-89-W	58250-89-W				
						58094-86-W	58249-86-W	58250-86-W				
3AF-12-32	3/8	3/8	2	4	TiCN ZrN	58097-00-W	58251-00-W	58252-00-W				
						58097-89-W	58251-89-W	58252-89-W				
						58097-86-W	58251-86-W	58252-86-W				
3AF-12-40	3/8	3/8	2-1/2	6	TiCN ZrN	58100-00-W	58253-00-W	58254-00-W				
						58100-89-W	58253-89-W	58254-89-W				
						58100-86-W	58253-86-W	58254-86-W				
3AF-14-09	7/16	7/16	9/16	2-1/2	TiCN ZrN	58105-00-W						
						58105-89-W						
						58105-86-W						
3AF-14-20	7/16	7/16	1-1/4	2-3/4	TiCN ZrN	58111-00-W						
						58111-89-W						
						58111-86-W						
3AF-16-10	1/2	1/2	5/8	2-1/2	TiCN ZrN	58117-00-W	58255-00-W	58256-00-W	58257-00-W	58258-00-W		
						58117-89-W	58255-89-W	58256-89-W	58257-89-W	58258-89-W		
						58117-86-W	58255-86-W	58256-86-W	58257-86-W	58258-86-W		
3AF-16-20	1/2	1/2	1-1/4	3	TiCN ZrN	58123-00-W	58259-00-W	58260-00-W	58261-00-W	58262-00-W		
						58123-89-W	58259-89-W	58260-89-W	58261-89-W	58262-89-W		
						58123-86-W	58259-86-W	58260-86-W	58261-86-W	58262-86-W		
3AF-16-26	1/2	1/2	1-5/8	4	TiCN ZrN	58129-00-W	58263-00-W	58264-00-W	58265-00-W	58266-00-W		
						58129-89-W	58263-89-W	58264-89-W	58265-86-W	58266-89-W		
						58129-86-W	58263-86-W	58264-86-W	58265-89-W	58266-86-W		
3AF-16-32	1/2	1/2	2	4	TiCN ZrN	58135-00-W	58267-00-W	58268-00-W	58269-00-W	58270-00-W		
						58135-89-W	58267-89-W	58268-89-W	58269-89-W	58270-89-W		
						58135-86-W	58267-86-W	58268-86-W	58269-86-W	58270-86-W		
3AF-16-40	1/2	1/2	2-1/2	5	TiCN ZrN	58141-00-W	58271-00-W	58272-00-W	58273-00-W	58274-00-W		
						58141-89-W	58271-89-W	58272-89-W	58273-89-W	58274-89-W		
						58141-86-W	58271-86-W	58272-86-W	58273-86-W	58274-86-W		
3AF-16-50	1/2	1/2	3-1/8	6	TiCN ZrN	58146-00-W	58275-00-W	58276-00-W	58277-00-W	58278-00-W		
						58146-89-W	58275-89-W	58276-89-W	58277-89-W	58278-89-W		
						58146-86-W	58275-86-W	58276-86-W	58277-86-W	58278-86-W		

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 3AF-3 Flute Finisher

# Premium Carbide

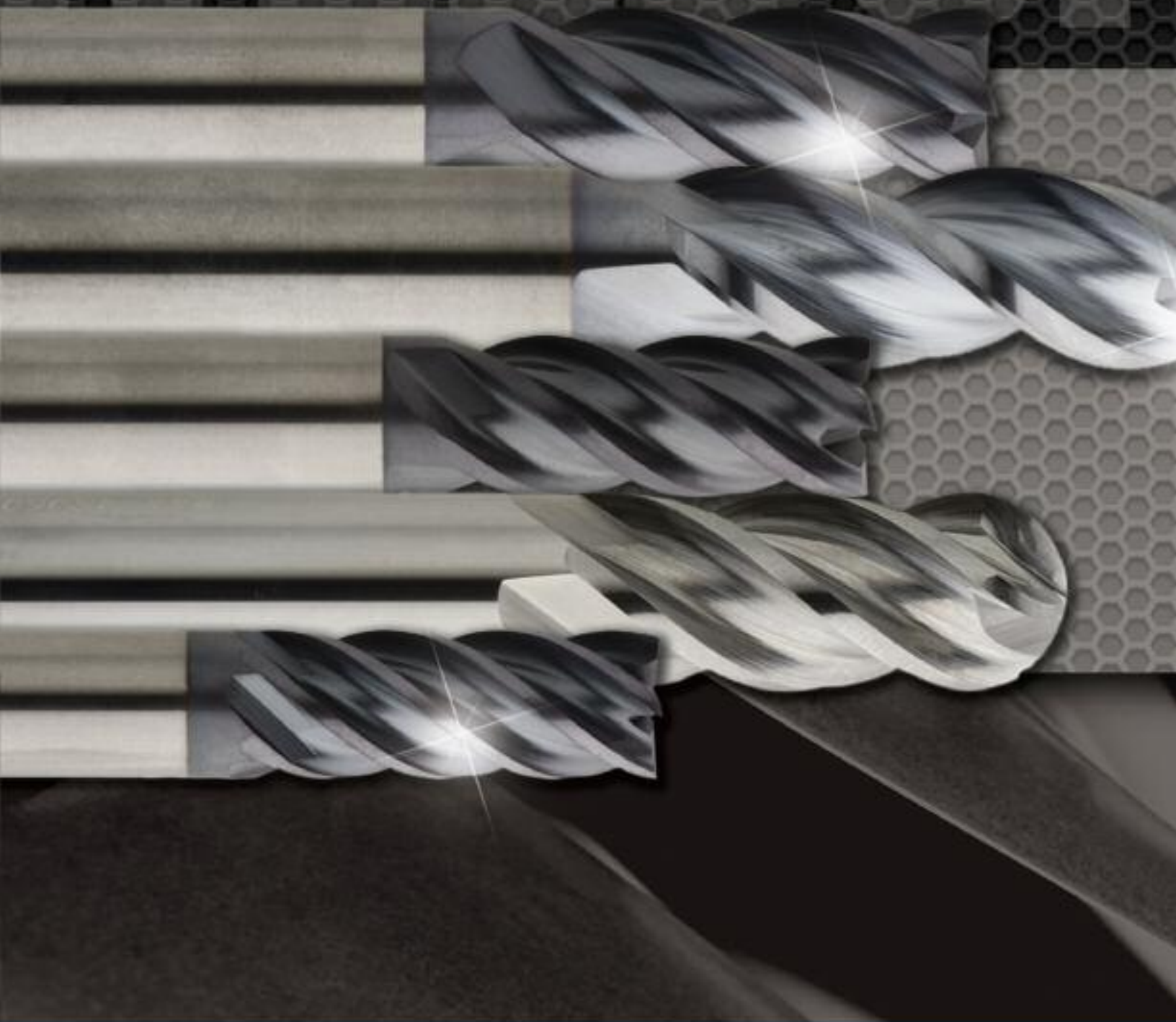
- 40 Degree Cylindrical Margin
- Finishing in Aluminum and Non-Ferrous Alloys
- Available with Square and Radius Ends
- Available as Uncoated, TiCN and ZrN Coatings

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	Coatings	Square	Radius Offerings					
						0.000	.030"	.060"	.090"	.120"	.156"	.190"
3AF-20-12	5/8	5/8	3/4	3		58149-00-W	58279-00-W	58280-00-W	58281-00-W	58282-00-W		
					TiCN	58149-89-W	58279-89-W	58280-89-W	58281-89-W	58282-89-W		
					ZrN	58149-86-W	58279-86-W	58280-86-W	58281-86-W	58282-86-W		
3AF-20-26	5/8	5/8	1-5/8	3-1/2		58155-00-W	58283-00-W	58284-00-W	58285-00-W	58286-00-W		
					TiCN	58155-89-W	58283-89-W	58284-89-W	58285-89-W	58286-89-W		
					ZrN	58155-86-W	58283-86-W	58284-86-W	58285-86-W	58286-86-W		
3AF-20-34	5/8	5/8	2-1/8	4		58161-00-W	58287-00-W	58288-00-W	58289-00-W	58290-00-W		
					TiCN	58161-89-W	58287-89-W	58288-89-W	58289-89-W	58290-89-W		
					ZrN	58161-86-W	58287-86-W	58288-86-W	58289-86-W	58290-86-W		
3AF-20-40	5/8	5/8	2-1/2	5		58167-00-W	58291-00-W	58292-00-W	58293-00-W	58294-00-W		
					TiCN	58167-89-W	58291-89-W	58292-89-W	58293-89-W	58294-89-W		
					ZrN	58167-86-W	58291-86-W	58292-86-W	58293-86-W	58294-86-W		
3AF-20-52	5/8	5/8	3-1/4	6		58172-00-W	58295-00-W	58296-00-W	58297-00-W	58298-00-W		
					TiCN	58172-89-W	58295-89-W	58296-89-W	58297-89-W	58298-89-W		
					ZrN	58172-86-W	58295-86-W	58296-86-W	58297-86-W	58298-86-W		
3AF-20-60	5/8	5/8	3-3/4	6		58175-00-W	58299-00-W	58300-00-W	58301-00-W	58303-00-W		
					TiCN	58175-89-W	58299-89-W	58300-89-W	58301-89-W	58303-89-W		
					ZrN	58175-86-W	58299-86-W	58300-86-W	58301-86-W	58303-86-W		
3AF-24-16	3/4	3/4	1	3		58178-00-W	58305-00-W	58307-00-W	58309-00-W	58311-00-W	58313-00-W	58315-00-W
					TiCN	58178-89-W	58305-89-W	58307-89-W	58309-89-W	58311-89-W	58313-89-W	58315-89-W
					ZrN	58178-86-W	58305-86-W	58307-86-W	58309-86-W	58311-86-W	58313-86-W	58315-86-W
3AF-24-26	3/4	3/4	1-5/8	4		58181-00-W	58317-00-W	58319-00-W	58321-00-W	58323-00-W	58325-00-W	58327-00-W
					TiCN	58181-89-W	58317-89-W	58319-89-W	58321-89-W	58323-89-W	58325-89-W	58327-89-W
					ZrN	58181-86-W	58317-86-W	58319-86-W	58321-86-W	58323-86-W	58325-86-W	58327-86-W
3AF-24-36	3/4	3/4	2-1/4	5		58184-00-W	58329-00-W	58331-00-W	58333-00-W	58335-00-W	58337-00-W	58339-00-W
					TiCN	58184-89-W	58329-89-W	58331-89-W	58333-89-W	58335-89-W	58337-89-W	58339-89-W
					ZrN	58184-86-W	58329-86-W	58331-86-W	58333-86-W	58335-86-W	58337-86-W	58339-86-W
3AF-24-52	3/4	3/4	3-1/4	6		58187-00-W	58341-00-W	58343-00-W	58345-00-W	58347-00-W	58349-00-W	58351-00-W
					TiCN	58187-89-W	58341-89-W	58343-89-W	58345-89-W	58347-89-W	58349-89-W	58351-89-W
					ZrN	58187-86-W	58341-86-W	58343-86-W	58345-86-W	58347-86-W	58349-86-W	58351-86-W
3AF-24-64	3/4	3/4	4	6-1/2		58190-00-W	58353-00-W	58355-00-W	58357-00-W	58359-00-W	58361-00-W	58363-00-W
					TiCN	58190-89-W	58353-89-W	58355-89-W	58357-89-W	58359-89-W	58361-89-W	58363-89-W
					ZrN	58190-86-W	58353-86-W	58355-86-W	58357-86-W	58359-86-W	58361-86-W	58363-86-W
3AF-32-20	1	1	1-1/4	4		58193-00-W	58365-00-W	58366-00-W	58367-00-W	58368-00-W	58369-00-W	58370-00-W
					TiCN	58193-89-W	58365-89-W	58366-89-W	58367-89-W	58368-89-W	58369-89-W	58370-89-W
					ZrN	58193-86-W	58365-86-W	58366-86-W	58367-86-W	58368-86-W	58369-86-W	58370-86-W
3AF-32-32	1	1	2	5		58196-00-W	58371-00-W	58372-00-W	58373-00-W	58374-00-W	58375-00-W	58376-00-W
					TiCN	58196-89-W	58371-89-W	58372-89-W	58373-89-W	58374-89-W	58375-89-W	58376-89-W
					ZrN	58196-86-W	58371-86-W	58372-86-W	58373-86-W	58374-86-W	58375-86-W	58376-86-W
3AF-32-42	1	1	2-5/8	6		58199-00-W	58378-00-W	58379-00-W	58380-00-W	58381-00-W	58382-00-W	58383-00-W
					TiCN	58199-89-W	58378-89-W	58379-89-W	58380-89-W	58381-89-W	58382-89-W	58383-89-W
					ZrN	58199-86-W	58378-86-W	58379-86-W	58380-86-W	58381-86-W	58382-86-W	58383-86-W
3AF-32-52	1	1	3-1/4	6		58203-00-W	58384-00-W	58385-00-W	58386-00-W	58387-00-W	58388-00-W	58389-00-W
					TiCN	58203-89-W	58384-89-W	58385-89-W	58386-89-W	58387-89-W	58388-89-W	58389-89-W
					ZrN	58203-86-W	58384-86-W	58385-86-W	58386-86-W	58387-86-W	58388-86-W	58389-86-W
3AF-32-66	1	1	4-1/8	7		58209-00-W	58390-00-W	58391-00-W	58392-00-W	58393-00-W	58394-00-W	58395-00-W
					TiCN	58209-89-W	58390-89-W	58391-89-W	58392-89-W	58393-89-W	58394-89-W	58395-89-W
					ZrN	58209-86-W	58390-86-W	58391-86-W	58392-86-W	58393-86-W	58394-86-W	58395-86-W



# WELDDOOR



# Weldon® Premium Carbide for Steel and Ferrous Alloys

Weldon's Premium Carbide line of end mills has been engineered to machine Steel and Ferrous Alloys for roughing, finishing and somewhere in between. The following pages address not only the material machining but also if the operation requires pure roughing, roughing-finishing or a finishing cut only. Weldon® has engineered its line of Premium Carbide end mills to maximize machine time and tool life.



## Steel and Ferrous Materials Alloys



Series	Description	Page
3SR	3 Flute, 40 Degree Helix, For Roughing and Rough Slotting	20
4SV	4 Flute, 40 Degree Helix, Variable Index, Rougher/Finisher	22
4SR	4 Flute, 40 Degree Helix, Rougher/Finisher	24
4SR-BN	4 Flute, 40 Degree Helix, Rougher/Finisher	26
5SF	5 Flute, 40 Degree Helix, Finisher	28



The 3SR is a premium carbide end mill designed specifically for roughing and rough slotting. A full eccentric primary grind, standard corner radius and a 40 degree flute helix ensures an excellent chip evacuation. Tools are stocked coated with either AlTiN or TiCN.

### Speed in Surface Feet per Minute (SFM)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought
Diameter	Description	10XX, 11XX, 13XX, 15XX	40XX, 41XX, 42XX, 43XX, 44XX, 46XX, 86XX, Series	304, 304L, 312, 316, 316L	416, 420, 420F, 440C	15-5PH, 16-6PH, 17-4PH, AM-xx Series	Gray	Ductile	Inconel 625/718, A286, Haynes	Pure	Cast/Wrought 6AL4V, ASTM 1,2,3 Alpha - Beta
		SFM < 32 Rc	150 - 300	150 - 350	200 - 450	80 - 250	250 - 450	120 - 350	70 - 120	140 - 220	140 - 200
		SFM > 32 Rc	80 - 200	80 - 200	100 - 250	90 - 125	130 - 300	80 - 140	40 - 90	90 - 160	90 - 160
1/8"	S	0.0007	0.0006	0.0007	0.0007	0.0006	0.0006	0.0006	0.0005	0.0007	0.0006
	HP	0.0008	0.0007	0.0008	0.0008	0.0007	0.0007	0.0007	0.0006	0.0008	0.0007
	LP	0.0010	0.0008	0.0009	0.0009	0.0008	0.0008	0.0008	0.0007	0.0009	0.0008
1/4"	S	0.0014	0.0012	0.0013	0.0013	0.0012	0.0012	0.0012	0.0010	0.0013	0.0012
	HP	0.0017	0.0014	0.0017	0.0017	0.0014	0.0014	0.0014	0.0012	0.0017	0.0014
	LP	0.0019	0.0017	0.0018	0.0018	0.0017	0.0017	0.0017	0.0014	0.0018	0.0017
5/16"	S	0.0018	0.0015	0.0017	0.0017	0.0015	0.0015	0.0015	0.0012	0.0017	0.0015
	HP	0.0021	0.0018	0.0021	0.0021	0.0018	0.0018	0.0018	0.0015	0.0021	0.0018
	LP	0.0024	0.0021	0.0023	0.0023	0.0021	0.0021	0.0021	0.0018	0.0023	0.0021
3/8"	S	0.0021	0.0018	0.0020	0.0020	0.0018	0.0018	0.0018	0.0014	0.0020	0.0018
	HP	0.0025	0.0021	0.0025	0.0025	0.0021	0.0021	0.0021	0.0018	0.0025	0.0021
	LP	0.0029	0.0025	0.0027	0.0027	0.0025	0.0025	0.0025	0.0021	0.0027	0.0025
1/2"	S	0.0030	0.0025	0.0028	0.0028	0.0025	0.0025	0.0025	0.0020	0.0028	0.0025
	HP	0.0035	0.0030	0.0035	0.0035	0.0030	0.0030	0.0030	0.0025	0.0035	0.0030
	LP	0.0040	0.0035	0.0038	0.0038	0.0035	0.0035	0.0035	0.0030	0.0038	0.0035
5/8"	S	0.0038	0.0031	0.0035	0.0035	0.0031	0.0031	0.0031	0.0025	0.0035	0.0031
	HP	0.0044	0.0038	0.0044	0.0044	0.0038	0.0038	0.0038	0.0031	0.0044	0.0038
	LP	0.0050	0.0044	0.0048	0.0048	0.0044	0.0044	0.0044	0.0038	0.0048	0.0044
3/4"	S	0.0045	0.0038	0.0042	0.0042	0.0038	0.0038	0.0038	0.0030	0.0042	0.0038
	HP	0.0053	0.0045	0.0053	0.0053	0.0045	0.0045	0.0045	0.0038	0.0053	0.0045
	LP	0.0060	0.0053	0.0057	0.0057	0.0053	0.0053	0.0053	0.0045	0.0057	0.0053
1"	S	0.0060	0.0050	0.0056	0.0056	0.0050	0.0050	0.0050	0.0040	0.0056	0.0050
	HP	0.0070	0.0060	0.0070	0.0070	0.0060	0.0060	0.0060	0.0050	0.0070	0.0060
	LP	0.0080	0.0070	0.0076	0.0076	0.0070	0.0070	0.0070	0.0060	0.0076	0.0070

**S = SLOTTING**  
Axial Depth up to  
.5 x Diameter

**HP = HEAVY PERIPHERAL**  
Axial Depth up to Effective 1 x Diameter  
Radial width .4 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to Effective 1.5 x Diameter  
Radial width .15 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameters.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# 3SR-3 Flute Rougher

# Premium Carbide

- 40 Degree Helix for Enhance Chip Evacuation
- Roughing in Ferrous Alloys
- Comes with Standard Corner Chamfer
- Stocked with TiCN or AlTiN

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	Radius	TiCN EDP	AlTiN EDP
3SR-04-04	1/8	1/8	1/4	1-1/2	.010	59287-89-W	59287-85-W
3SR-04-08	1/8	1/8	1/2	1-1/2	.010	59289-89-W	59289-85-W
3SR-05-05	5/32	3/16	5/16	2	.010	59291-89-W	59291-85-W
3SR-05-09	5/32	3/16	9/16	2	.010	59293-89-W	59293-85-W
3SR-06-05	3/16	3/16	5/16	2	.010	59295-89-W	59295-85-W
3SR-06-09	3/16	3/16	9/16	2	.010	59297-89-W	59297-85-W
3SR-07-06	7/32	1/4	3/8	2	.020	59299-89-W	59299-85-W
3SR-07-12	7/32	1/4	3/4	2-1/2	.020	59301-89-W	59301-85-W
3SR-08-06	1/4	1/4	3/8	2	.020	59303-89-W	59303-85-W
3SR-08-12	1/4	1/4	3/4	2-1/2	.020	59305-89-W	59305-85-W
3SR-09-07	9/32	5/16	7/16	2	.020	59307-89-W	59307-85-W
3SR-09-13	9/32	5/16	13/16	2-1/2	.020	59309-89-W	59309-85-W
3SR-10-07	5/16	5/16	7/16	2	.020	59311-89-W	59311-85-W
3SR-10-13	5/16	5/16	13/16	2-1/2	.020	59313-89-W	59313-85-W
3SR-11-08	11/32	3/8	1/2	2	.020	59315-89-W	59315-85-W
3SR-11-16	11/32	3/8	1	2-1/2	.020	59317-89-W	59317-85-W
3SR-12-08	3/8	3/8	1/2	2	.020	59319-89-W	59319-85-W
3SR-12-16	3/8	3/8	1	2-1/2	.020	59321-89-W	59321-85-W
3SR-14-09	7/16	7/16	9/16	2-1/2	.020	59323-89-W	59323-85-W
3SR-14-20	7/16	7/16	1	2-3/4	.020	59325-89-W	59325-85-W
3SR-16-10	1/2	1/2	5/8	2-1/2	.030	59327-89-W	59327-85-W
3SR-16-20	1/2	1/2	1-1/4	3	.030	59329-89-W	59329-85-W
3SR-20-12	5/8	5/8	3/4	3	.030	59331-89-W	59331-85-W
3SR-20-26	5/8	5/8	1-5/8	3-1/2	.030	59333-89-W	59333-85-W
3SR-24-16	3/4	3/4	1	3	.030	59335-89-W	59335-85-W
3SR-24-26	3/4	3/4	1-5/8	4	.030	59337-89-W	59337-85-W
3SR-32-20	1	1	1-1/4	3	.030	59339-89-W	59339-85-W
3SR-32-32	1	1	2	4	.030	59341-89-W	59341-85-W



The 4SV is a variable indexed, premium carbide tool with standard corner radius, 40 degree helix and full eccentric grind. The 4SR features combined with the harmonic dampening of variably indexed flutes results in a tool that can be used at the highest feeds and speeds with depth of cut up to 1 x tool diameter.

### Speed in Surface Feet per Minute (SFM)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought
Diameter	Description	10XX, 11XX, 13XX, 15XX	40XX, 41XX, 42XX, 43XX, 44XX, 46XX, 86XX, Series	304, 304L, 312, 316, 316L	416, 420, 420F, 440C	15-5PH, 16-6PH, 17-4PH, AM-xx Series	Gray	Ductile	Inconel 625/718, A286, Haynes	Pure	Cast/Wrought 6AL4V, ASTM 1,2,3 Alpha - Beta
		SFM < 32 Rc	150 - 300	150 - 350	200 - 450	80 - 250	250 - 450	120 - 350	70 - 120	140 - 220	140 - 200
		SFM > 32 Rc	80 - 200	80 - 200	100 - 250	90 - 125	130 - 300	80 - 140	40 - 90	90 - 160	90 - 160
1/8"	S	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
	HP	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
	LP	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008
1/4"	S	0.0012	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
	HP	0.0014	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0012	0.0013	0.0013
	LP	0.0017	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0014	0.0015	0.0015
5/16"	S	0.0015	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0012	0.0013	0.0013
	HP	0.0018	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0015	0.0016	0.0016
	LP	0.0021	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0018	0.0019	0.0019
3/8"	S	0.0018	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0014	0.0016	0.0016
	HP	0.0021	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0018	0.0019	0.0019
	LP	0.0025	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0021	0.0023	0.0023
1/2"	S	0.0025	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0020	0.0022	0.0022
	HP	0.0030	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0025	0.0027	0.0027
	LP	0.0035	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0030	0.0032	0.0032
5/8"	S	0.0031	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	0.0025	0.0028	0.0028
	HP	0.0038	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	0.0031	0.0034	0.0034
	LP	0.0044	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0038	0.0040	0.0040
3/4"	S	0.0038	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0030	0.0033	0.0033
	HP	0.0045	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0038	0.0041	0.0041
	LP	0.0053	0.0048	0.0048	0.0048	0.0048	0.0048	0.0048	0.0045	0.0048	0.0048
1"	S	0.0050	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0040	0.0044	0.0044
	HP	0.0060	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0050	0.0054	0.0054
	LP	0.0070	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0060	0.0064	0.0064

**S = SLOTTING**  
Axial Depth up to  
.5 to 1 x Diameter

**HP = HEAVY PERIPHERAL**  
Axial Depth up to Effective 1 x Diameter  
Radial width .4 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to 1.5 x Diameter  
Radial width .2 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameters.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 4SV-4 Flute Rougher

# Premium Carbide

- 40 Degree, Eccentric Grind
- Variable Flute Index
- Comes with Standard Corner Radius and either TiCN or AlTiN
- For Roughing in Ferrous Alloys

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	Radius	TiCN EDP	AlTiN EDP
4SV-04-04	1/8	1/8	1/4	2	.010	59399-89-W	59399-85-W
4SV-04-08	1/8	1/8	1/2	2-1/2	.010	59401-89-W	59401-85-W
4SV-05-05	5/32	3/16	5/16	2	.010	59403-89-W	59403-85-W
4SV-05-09	5/32	3/16	9/16	2-1/2	.010	59405-89-W	59405-85-W
4SV-06-05	3/16	3/16	5/16	2	.010	59407-89-W	59407-85-W
4SV-06-09	3/16	3/16	9/16	2-1/2	.010	59409-89-W	59409-85-W
4SV-07-06	7/32	1/4	3/8	2	.020	59411-89-W	59411-85-W
4SV-07-12	7/32	1/4	3/4	2-1/2	.020	59413-89-W	59413-85-W
4SV-08-06	1/4	1/4	3/8	2	.020	59415-89-W	59415-85-W
4SV-08-12	1/4	1/4	3/4	2-1/2	.020	59417-89-W	59417-85-W
4SV-09-07	9/32	5/16	7/16	2-1/2	.020	59419-89-W	59419-85-W
4SV-09-13	9/32	5/16	3/4	2-1/2	.020	59421-89-W	59421-85-W
4SV-10-07	5/16	5/16	7/16	2-1/2	.020	59423-89-W	59423-85-W
4SV-10-13	5/16	5/16	13/16	2-1/2	.020	59425-89-W	59425-85-W
4SV-11-08	11/32	3/8	1/2	2-1/2	.020	59427-89-W	59427-85-W
4SV-11-16	11/32	3/8	1	2-1/2	.020	59429-89-W	59429-85-W
4SV-12-08	3/8	3/8	1/2	2-1/2	.020	59431-89-W	59431-85-W
4SV-12-16	3/8	3/8	1	2-1/2	.020	59433-89-W	59433-85-W
4SV-14-09	7/16	7/16	9/16	2-1/2	.020	59435-89-W	59435-85-W
4SV-14-20	7/16	7/16	1	3-1/2	.020	59437-89-W	59437-85-W
4SV-16-10	1/2	1/2	5/8	3	.030	59439-89-W	59439-85-W
4SV-16-20	1/2	1/2	1-1/4	3	.030	59441-89-W	59441-85-W
4SV-20-12	5/8	5/8	3/4	3	.030	59443-89-W	59443-85-W
4SV-20-26	5/8	5/8	1-5/8	3-1/2	.030	59445-89-W	59445-85-W
4SV-24-16	3/4	3/4	1	3	.030	59447-89-W	59447-85-W
4SV-24-26	3/4	3/4	1-5/8	4	.030	59449-89-W	59449-85-W
4SV-32-20	1	1	1-1/4	4	.030	59451-89-W	59451-85-W
4SV-32-32	1	1	2	5	.030	59453-89-W	59453-85-W





The 4SR is a premium carbide end mill designed specifically for roughing and finishing in ferrous alloy materials. A full eccentric primary grind, standard corner radius and a 40 degree helix ensures an excellent chip evacuation. Tools are stocked coated with either AlTiN or TiCN.

### Speed in Surface Feet per Minute (SFM)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought
Diameter	Description	10XX, 11XX, 13XX, 15XX	40XX, 41XX, 42XX, 43XX, 44XX, 46XX, 86XX, Series	304, 304L, 312, 316, 316L	416, 420, 420F, 440C	15-5PH, 16-6PH, 17-4PH, AM-xx Series	Gray	Ductile	Inconel 625/718, A286, Haynes	Pure	Cast/Wrought 6AL4V, ASTM 1,2,3 Alpha - Beta
		SFM < 32 Rc	150 - 300	150 - 350	200 - 450	80 - 250	250 - 450	120 - 350	70 - 120	140 - 220	140 - 200
		SFM > 32 Rc	80 - 200	80 - 200	100 - 250	90 - 125	130 - 300	80 - 140	40 - 90	90 - 160	90 - 160
1/8"	S	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
	HP	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
	LP	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008
1/4"	S	0.0012	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
	HP	0.0014	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0012	0.0013	0.0013
	LP	0.0017	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0014	0.0015	0.0015
5/16"	S	0.0015	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0012	0.0013	0.0013
	HP	0.0018	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0015	0.0016	0.0016
	LP	0.0021	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0018	0.0019	0.0019
3/8"	S	0.0018	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0014	0.0016	0.0016
	HP	0.0021	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0018	0.0019	0.0019
	LP	0.0025	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0021	0.0023	0.0023
1/2"	S	0.0025	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0020	0.0022	0.0022
	HP	0.0030	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0025	0.0027	0.0027
	LP	0.0035	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0030	0.0032	0.0032
5/8"	S	0.0031	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	0.0025	0.0028	0.0028
	HP	0.0038	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	0.0031	0.0034	0.0034
	LP	0.0044	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0038	0.0040	0.0040
3/4"	S	0.0038	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0030	0.0033	0.0033
	HP	0.0045	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0038	0.0041	0.0041
	LP	0.0053	0.0048	0.0048	0.0048	0.0048	0.0048	0.0048	0.0045	0.0048	0.0048
1"	S	0.0050	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0040	0.0044	0.0044
	HP	0.0060	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0050	0.0054	0.0054
	LP	0.0070	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0060	0.0064	0.0064

**S = SLOTTING**  
Axial Depth up to  
.5 x Diameter

**HP = HEAVY PERIPHERAL**  
Axial Depth up to Effective 1 x Diameter  
Radial width .3 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to 1.5 x Diameter  
Radial width .1 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameters.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 4SR-4 Flute Rougher/Finisher

# Premium Carbide

- 40 Degree Helix for Enhance Chip Evacuation
- Roughing/Finishing in Ferrous Alloys
- Comes with Standard Corner Radius
- Stocked with TiCN or AlTiN

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	Radius	TiCN EDP	AlTiN EDP
4SR-04-04	1/8	1/8	1/4	1-1/2	.010	59343-89-W	59343-85-W
4SR-04-08	1/8	1/8	1/2	1-1/2	.010	59345-89-W	59345-85-W
4SR-05-05	5/32	3/16	5/16	2	.010	59347-89-W	59347-85-W
4SR-05-09	5/32	3/16	9/16	2	.010	59349-89-W	59349-85-W
4SR-06-05	3/16	3/16	5/16	2	.010	59351-89-W	59351-85-W
4SR-06-09	3/16	3/16	9/16	2	.010	59353-89-W	59353-85-W
4SR-07-06	7/32	1/4	3/8	2	.020	59355-89-W	59355-85-W
4SR-07-12	7/32	1/4	3/4	2-1/2	.020	59357-89-W	59357-85-W
4SR-08-06	1/4	1/4	3/8	2	.020	59359-89-W	59359-85-W
4SR-08-12	1/4	1/4	3/4	2-1/2	.020	59361-89-W	59361-85-W
4SR-09-07	9/32	5/16	7/16	2	.020	59363-89-W	59363-85-W
4SR-09-13	9/32	5/16	13/16	2-1/2	.020	59365-89-W	59365-85-W
4SR-10-07	5/16	5/16	7/16	2	.020	59367-89-W	59367-85-W
4SR-10-13	5/16	5/16	13/16	2-1/2	.020	59369-89-W	59369-85-W
4SR-11-08	11/32	3/8	1/2	2	.020	59371-89-W	59371-85-W
4SR-11-16	11/32	3/8	1	2-1/2	.020	59373-89-W	59373-85-W
4SR-12-08	3/8	3/8	1/2	2	.020	59375-89-W	59375-85-W
4SR-12-16	3/8	3/8	1	2-1/2	.020	59377-89-W	59377-85-W
4SR-14-09	7/16	7/16	9/16	2-1/2	.020	59379-89-W	59379-85-W
4SR-14-20	7/16	7/16	1	2-3/4	.020	59381-89-W	59381-85-W
4SR-16-10	1/2	1/2	5/8	2-1/2	.030	59383-89-W	59383-85-W
4SR-16-20	1/2	1/2	1-1/4	3	.030	59385-89-W	59385-85-W
4SR-20-12	5/8	5/8	3/4	3	.030	59387-89-W	59387-85-W
4SR-20-26	5/8	5/8	1-5/8	3-1/2	.030	59389-89-W	59389-85-W
4SR-24-16	3/4	3/4	1	3	.030	59391-89-W	59391-85-W
4SR-24-26	3/4	3/4	1-5/8	4	.030	59393-89-W	59393-85-W
4SR-32-20	1	1	1-1/4	3	.030	59395-89-W	59395-85-W
4SR-32-32	1	1	2	4	.030	59397-89-W	59397-85-W



The 4SR-BN is a premium carbide ball nose end mill designed specifically for roughing and finishing in ferrous alloy materials. A full eccentric primary grind and a 40 degree flute helix ensures an excellent chip evacuation. Tools are stocked coated with either AlTiN or TiCN.

### Speed in Surface Feet per Minute (SFM)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought
Diameter	Description	10XX, 11XX, 13XX, 15XX	40XX, 41XX, 42XX, 43XX, 44XX, 46XX, 86XX, Series	304, 304L, 312, 316, 316L	416, 420, 420F, 440C	15-5PH, 16-6PH, 17-4PH, AM-xx Series	Gray	Ductile	Inconel 625/718, A286, Haynes	Pure	Cast/Wrought 6AL4V, ASTM 1,2,3 Alpha - Beta
		SFM < 32 Rc	150 - 300	150 - 350	200 - 450	80 - 250	250 - 450	120 - 350	70 - 120	140 - 220	140 - 200
		SFM > 32 Rc	80 - 200	80 - 200	100 - 250	90 - 125	130 - 300	80 - 140	40 - 90	90 - 160	90 - 160
1/8"	S	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
	HP	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
	LP	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008
1/4"	S	0.0012	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
	HP	0.0014	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0012	0.0013	0.0013
	LP	0.0017	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0014	0.0015	0.0015
5/16"	S	0.0015	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0012	0.0013	0.0013
	HP	0.0018	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0015	0.0016	0.0016
	LP	0.0021	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0018	0.0019	0.0019
3/8"	S	0.0018	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0014	0.0016	0.0016
	HP	0.0021	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0018	0.0019	0.0019
	LP	0.0025	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0021	0.0023	0.0023
1/2"	S	0.0025	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0020	0.0022	0.0022
	HP	0.0030	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0025	0.0027	0.0027
	LP	0.0035	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0030	0.0032	0.0032
5/8"	S	0.0031	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	0.0025	0.0028	0.0028
	HP	0.0038	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	0.0031	0.0034	0.0034
	LP	0.0044	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0038	0.0040	0.0040
3/4"	S	0.0038	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0030	0.0033	0.0033
	HP	0.0045	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0038	0.0041	0.0041
	LP	0.0053	0.0048	0.0048	0.0048	0.0048	0.0048	0.0048	0.0045	0.0048	0.0048
1"	S	0.0050	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0040	0.0044	0.0044
	HP	0.0060	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0050	0.0054	0.0054
	LP	0.0070	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0060	0.0064	0.0064

**S = SLOTTING**  
Axial Depth up to  
.5 x Diameter

**HP = HEAVY PERIPHERAL**  
Axial Depth up to Effective 1 x Diameter  
Radial width .3 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to 1.5 x Diameter  
Radial width .10 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameters.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 4SR-BN Ball Nose, 4 Flute Rougher/Finisher Premium Carbide

- 40 Degree Helix for Enhance Chip Evacuation
- Roughing/Finishing in Ferrous Alloys
- Ball Nose
- Stocked with TiCN or AlTiN

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	TiCN EDP	AlTiN EDP
4SR-BN-04-04	1/8	1/8	1/4	1-1/2	59908-89-W	59908-85-W
4SR-BN-04-08	1/8	1/8	1/2	1-1/2	59910-89-W	59910-85-W
4SR-BN-05-05	5/32	3/16	5/16	2	59912-89-W	59912-85-W
4SR-BN-05-09	5/32	3/16	9/16	2	59914-89-W	59914-85-W
4SR-BN-06-05	3/16	3/16	5/16	2	59916-89-W	59916-85-W
4SR-BN-06-09	3/16	3/16	9/16	2	59918-89-W	59918-85-W
4SR-BN-07-06	7/32	1/4	3/8	2	59920-89-W	59920-85-W
4SR-BN-07-12	7/32	1/4	3/4	2-1/2	59922-89-W	59922-85-W
4SR-BN-08-06	1/4	1/4	3/8	2	59924-89-W	59924-85-W
4SR-BN-08-12	1/4	1/4	3/4	2-1/2	59926-89-W	59926-85-W
4SR-BN-09-07	9/32	5/16	7/16	2	59928-89-W	59928-85-W
4SR-BN-09-13	9/32	5/16	13/16	2-1/2	59930-89-W	59930-85-W
4SR-BN-10-07	5/16	5/16	7/16	2	59932-89-W	59932-85-W
4SR-BN-10-13	5/16	5/16	13/16	2-1/2	59934-89-W	59934-85-W
4SR-BN-11-08	11/32	3/8	1/2	2	59936-89-W	59936-85-W
4SR-BN-11-16	11/32	3/8	1	2-1/2	59938-89-W	59938-85-W
4SR-BN-12-08	3/8	3/8	1/2	2	59940-89-W	59940-85-W
4SR-BN-12-16	3/8	3/8	1	2-1/2	59942-89-W	59942-85-W
4SR-BN-14-09	7/16	7/16	9/16	2-1/2	59944-89-W	59944-85-W
4SR-BN-14-20	7/16	7/16	1	2-3/4	59946-89-W	59946-85-W
4SR-BN-16-10	1/2	1/2	5/8	2-1/2	59948-89-W	59948-85-W
4SR-BN-16-20	1/2	1/2	1-1/4	3	59950-89-W	59950-85-W
4SR-BN-20-12	5/8	5/8	3/4	3	59952-89-W	59952-85-W
4SR-BN-20-26	5/8	5/8	1-5/8	3-1/2	59954-89-W	59954-85-W
4SR-BN-24-16	3/4	3/4	1	3	59956-89-W	59956-85-W
4SR-BN-24-26	3/4	3/4	1-5/8	4	59958-89-W	59958-85-W
4SR-BN-32-20	1	1	1-1/4	3	59960-89-W	59960-85-W
4SR-BN-32-32	1	1	2	4	59962-89-W	59962-85-W





The 5SF is a finishing premium carbide end mill. It has a full eccentric primary grind, 40 degree helix for proper chip evacuation and odd number of flutes to reduce unwanted harmonics.

### Speed in Surface Feet per Minute (SFM)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought	
Diameter	Description	10XX, 11XX, 13XX, 15XX	40XX, 41XX, 42XX, 43XX, 44XX, 46XX, 86XX, Series	304, 304L, 312, 316, 316L	416, 420, 420F, 440C	15-5PH, 16-6PH, 17-4PH, AM-xx Series	Gray	Ductile	Inconel 625/718, A286, Haynes	Pure	Cast/Wrought 6AL4V, ASTM 1,2,3 Alpha - Beta	
		SFM < 32 Rc	200 - 450	150 - 300	150 - 350	200 - 450	80 - 250	250 - 450	120 - 350	70 - 120	140 - 220	140 - 200
		SFM > 32 Rc	100 - 250	80 - 200	80 - 200	100 - 250	90 - 125	130 - 300	80 - 140	40 - 90	90 - 160	90 - 160
1/8"	HP	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0005	0.0007	0.0007	
	LP	0.0011	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0007	0.0010	0.0010	
	FINISH	0.0014	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0010	0.0013	0.0013	
1/4"	HP	0.0017	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0010	0.0014	0.0014	
	LP	0.0021	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0014	0.0019	0.0019	
	FINISH	0.0028	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0020	0.0025	0.0025	
5/16"	HP	0.0021	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0012	0.0018	0.0018	
	LP	0.0027	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0018	0.0024	0.0024	
	FINISH	0.0034	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0025	0.0031	0.0031	
3/8"	HP	0.0025	0.0021	0.0021	0.0021	0.0021	0.0021	0.0021	0.0014	0.0021	0.0021	
	LP	0.0032	0.0029	0.0029	0.0029	0.0029	0.0029	0.0029	0.0021	0.0029	0.0029	
	FINISH	0.0041	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0030	0.0038	0.0038	
1/2"	HP	0.0035	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0020	0.0030	0.0030	
	LP	0.0045	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0030	0.0040	0.0040	
	FINISH	0.0055	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0040	0.0050	0.0050	
5/8"	HP	0.0042	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	0.0024	0.0036	0.0036	
	LP	0.0053	0.0048	0.0048	0.0048	0.0048	0.0048	0.0048	0.0036	0.0048	0.0048	
	FINISH	0.0065	0.0059	0.0059	0.0059	0.0059	0.0059	0.0059	0.0048	0.0059	0.0059	
3/4"	HP	0.0050	0.0043	0.0043	0.0043	0.0043	0.0043	0.0043	0.0029	0.0043	0.0043	
	LP	0.0064	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0043	0.0057	0.0057	
	FINISH	0.0078	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0057	0.0071	0.0071	
1"	HP	0.0070	0.0060	0.0060	0.0060	0.0060	0.0060	0.0060	0.0040	0.0060	0.0060	
	LP	0.0090	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0060	0.0080	0.0080	
	FINISH	0.0110	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0080	0.0100	0.0100	

**HP = HEAVY PERIPHERAL**  
Axial Depth up to 1.0 x Diameter  
Radial width .2 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to Effective Length of Cut  
Radial width .05 x Diameter

**FINISH = FINISH OPERATION**  
Axial Depth up to Effective Length of Cut  
Radial width .02 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameters.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 5SF-5 Flute Finisher

# Premium Carbide

- 40 Degree Helix, Full Eccentric Primary
- Finishing in Aluminum and Non-Ferrous Alloys
- Available with Square and Radius Ends
- Available as TiCN and AlTiN Coatings

- Available Upon Request:
  - Coolant Groves
  - Additional Coatings
  - Specials

Part Number	Dia.	Shank	LOC	OAL	Coatings	Square 0.000	Radius Offerings					
							.030"	.060"	.090"	.120"	.156"	.190"
5SF-04-04	1/8	1/8	1/4	1-1/2	TiCN	59455-89-W						
					AlTiN	59455-85-W						
5SF-04-08	1/8	1/8	1/2	1-1/2	TiCN	59457-89-W						
					AlTiN	59457-85-W						
5SF-05-05	5/32	3/16	5/16	2	TiCN	59459-89-W						
					AlTiN	59459-85-W						
5SF-05-09	5/32	3/16	9/16	2	TiCN	59461-89-W						
					AlTiN	59461-85-W						
5SF-06-09	3/16	3/16	5/16	2	TiCN	59463-89-W						
					AlTiN	59463-85-W						
5SF-06-09	3/16	3/16	9/16	2	TiCN	59465-89-W						
					AlTiN	59465-85-W						
5SF-07-06	7/32	1/4	3/8	2	TiCN	59467-89-W						
					AlTiN	59467-85-W						
5SF-07-12	7/32	1/4	3/4	2-1/2	TiCN	59469-89-W						
					AlTiN	59469-85-W						
5SF-08-06	1/4	1/4	3/8	2	TiCN	59471-89-W	59559-89-W					
					AlTiN	59471-85-W	59559-85-W					
5SF-08-12	1/4	1/4	3/4	2-1/2	TiCN	59473-89-W	59560-89-W					
					AlTiN	59473-85-W	59560-85-W					
5SF-08-20	1/4	1/4	1-1/4	4	TiCN	59475-89-W	59561-89-W					
					AlTiN	59475-85-W	59561-85-W					
5SF-08-24	1/4	1/4	1-1/2	3-1/2	TiCN	59477-89-W	59562-89-W					
					AlTiN	59477-85-W	59562-85-W					
5SF-08-32	1/4	1/4	2	4	TiCN	59479-89-W	59563-89-W					
					AlTiN	59479-85-W	59563-85-W					
5SF-09-07	9/32	5/16	7/16	2	TiCN	59481-89-W						
					AlTiN	59481-85-W						
5SF-09-13	9/32	5/16	13/16	2-1/2	TiCN	59483-89-W						
					AlTiN	59483-85-W						
5SF-10-07	5/16	5/16	7/16	2	TiCN	59485-89-W	59564-89-W	59565-89-W				
					AlTiN	59485-85-W	59564-85-W	59565-85-W				
5SF-10-13	5/16	5/16	13/16	2-1/2	TiCN	59487-89-W	59566-89-W	59567-89-W				
					AlTiN	59487-85-W	59566-85-W	59567-85-W				
5SF-10-20	5/16	5/16	1-1/4	4	TiCN	59489-89-W	59568-89-W	59569-89-W				
					AlTiN	59489-85-W	59568-85-W	59569-85-W				
5SF-10-26	5/16	5/16	1-5/8	3-1/2	TiCN	59491-89-W	59570-89-W	59571-89-W				
					AlTiN	59491-85-W	59570-85-W	59571-85-W				
5SF-10-34	5/16	5/16	2-1/8	4	TiCN	59493-89-W	59572-89-W	59573-89-W				
					AlTiN	59493-85-W	59572-85-W	59573-85-W				
5SF-11-08	11/32	3/8	1/2	2	TiCN	59495-89-W						
					AlTiN	59495-85-W						
5SF-11-16	11/32	3/8	1	2-1/2	TiCN	59497-89-W						
					AlTiN	59497-85-W						



Part Number	Dia.	Shank	LOC	OAL	Coatings	Square 0.000	Radius Offerings					
							.030"	.060"	.090"	.120"	.156"	.190"
5SF-12-08	3/8	3/8	1/2	2	TiCN	59501-89-W	59574-89-W	59575-89-W				
					AlTiN	59501-85-W	59574-85-W	59575-85-W				
5SF-12-16	3/8	3/8	1	2-1/2	TiCN	59503-89-W	59576-89-W	59577-89-W				
					AlTiN	59503-85-W	59576-85-W	59577-85-W				
5SF-12-24	3/8	3/8	1-1/2	4	TiCN	59505-89-W	59578-89-W	59579-89-W				
					AlTiN	59505-85-W	59578-85-W	59579-85-W				
5SF-12-32	3/8	3/8	2	4	TiCN	59507-89-W	59580-89-W	59581-89-W				
					AlTiN	59507-85-W	59580-85-W	59581-85-W				
5SF-12-40	3/8	3/8	2-1/2	6	TiCN	59509-89-W	59582-89-W	59583-89-W				
					AlTiN	59509-85-W	59582-85-W	59583-85-W				
5SF-14-09	7/16	7/16	9/16	2-1/2	TiCN	59511-89-W						
					AlTiN	59511-85-W						
5SF-14-20	7/16	7/16	1	2-3/4	TiCN	59513-89-W						
					AlTiN	59513-85-W						
5SF-16-10	1/2	1/2	5/8	2-1/2	TiCN	59515-89-W	59584-89-W	59585-89-W	59586-89-W	59587-89-W		
					AlTiN	59515-85-W	59584-85-W	59585-85-W	59586-85-W	59587-85-W		
5SF-16-20	1/2	1/2	1-1/4	3	TiCN	59517-89-W	59588-89-W	59589-89-W	59590-89-W	59591-89-W		
					AlTiN	59517-85-W	59588-85-W	59589-85-W	59590-85-W	59591-85-W		
5SF-16-26	1/2	1/2	1-5/8	4	TiCN	59519-89-W	59592-89-W	59593-89-W	59594-89-W	59595-89-W		
					AlTiN	59519-85-W	59592-85-W	59593-85-W	59594-85-W	59595-85-W		
5SF-16-32	1/2	1/2	2	4	TiCN	59521-89-W	59596-89-W	59597-89-W	59598-89-W	59599-89-W		
					AlTiN	59521-85-W	59596-85-W	59597-85-W	59598-85-W	59599-85-W		
5SF-16-40	1/2	1/2	2-1/2	5	TiCN	59523-89-W	59600-89-W	59601-89-W	59602-89-W	59603-89-W		
					AlTiN	59523-85-W	59600-85-W	59601-85-W	59602-85-W	59603-85-W		
5SF-16-50	1/2	1/2	3-1/8	6	TiCN	59525-89-W	59604-89-W	59605-89-W	59606-89-W	59607-89-W		
					AlTiN	59525-85-W	59604-85-W	59605-85-W	59606-85-W	59607-85-W		
5SF-20-12	5/8	5/8	3/4	3	TiCN	59527-89-W	59608-89-W	59609-89-W	59610-89-W	59611-89-W		
					AlTiN	59527-85-W	59608-85-W	59609-85-W	59610-85-W	59611-85-W		
5SF-20-26	5/8	5/8	1-5/8	3-1/2	TiCN	59529-89-W	59612-89-W	59613-89-W	59614-89-W	59615-89-W		
					AlTiN	59529-85-W	59612-85-W	59613-85-W	59614-85-W	59615-85-W		
5SF-20-34	5/8	5/8	2-1/8	4	TiCN	59531-89-W	59616-89-W	59617-89-W	59618-89-W	59619-89-W		
					AlTiN	59531-85-W	59616-85-W	59617-85-W	59618-85-W	59619-85-W		
5SF-20-40	5/8	5/8	2-1/2	5	TiCN	59533-89-W	59620-89-W	59621-89-W	59622-89-W	59623-89-W		
					AlTiN	59533-85-W	59620-85-W	59621-85-W	59622-85-W	59623-85-W		
5SF-20-52	5/8	5/8	3-1/4	6	TiCN	59535-89-W	59624-89-W	59625-89-W	59626-89-W	59627-89-W		
					AlTiN	59535-85-W	59624-85-W	59625-85-W	59626-85-W	59627-85-W		
5SF-20-60	5/8	5/8	4	6	TiCN	59537-89-W	59628-89-W	59629-89-W	59630-89-W	59631-89-W		
					AlTiN	59537-85-W	59628-85-W	59629-85-W	59630-85-W	59631-85-W		

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





Part Number	Dia.	Shank	LOC	OAL	Coatings	Square 0.000	Radius Offerings					
							.030"	.060"	.090"	.120"	.156"	.190"
5SF-24-16	3/4	3/4	1	3	TiCN	59539-89-W	59632-89-W	59633-89-W	59634-89-W	59635-89-W	59636-89-W	59637-89-W
						59539-85-W	59632-85-W	59633-85-W	59634-85-W	59635-85-W	59636-85-W	59637-85-W
5SF-24-26	3/4	3/4	1-5/8	4	TiCN	59541-89-W	59638-89-W	59639-89-W	59640-89-W	59641-89-W	59642-89-W	59643-89-W
						59541-85-W	59638-85-W	59639-85-W	59640-85-W	59641-85-W	59642-85-W	59643-85-W
5SF-24-36	3/4	3/4	2-1/4	5	TiCN	59543-89-W	59644-89-W	59645-89-W	59646-89-W	59647-89-W	59648-89-W	59649-89-W
						59543-85-W	59644-85-W	59645-85-W	59646-85-W	59647-85-W	59648-85-W	59649-85-W
5SF-24-52	3/4	3/4	3-1/4	6	TiCN	59545-89-W	59650-89-W	59651-89-W	59652-89-W	59653-89-W	59654-89-W	59655-89-W
						59545-85-W	59650-85-W	59651-85-W	59652-85-W	59653-85-W	59654-85-W	59655-85-W
5SF-24-64	3/4	3/4	4	6	TiCN	59547-89-W	59656-89-W	59657-89-W	59658-89-W	59659-89-W	59660-89-W	59661-89-W
						59547-85-W	59656-85-W	59657-85-W	59658-85-W	59659-85-W	59660-85-W	59661-85-W
5SF-32-20	1	1	1-1/4	3	TiCN	59549-89-W	59662-89-W	59663-89-W	59664-89-W	59665-89-W	59666-89-W	59667-89-W
						59549-85-W	59662-85-W	59663-85-W	59664-85-W	59665-85-W	59666-85-W	59667-85-W
5SF-32-32	1	1	2	4	TiCN	59551-89-W	59668-89-W	59669-89-W	59670-89-W	59671-89-W	59672-89-W	59673-89-W
						59551-85-W	59668-85-W	59669-85-W	59670-85-W	59671-85-W	59672-85-W	59673-85-W
5SF-32-42	1	1	2-5/8	6	TiCN	59553-89-W	59674-89-W	59675-89-W	59676-89-W	59677-89-W	59678-89-W	59679-89-W
						59553-85-W	59674-85-W	59675-85-W	59676-85-W	59677-85-W	59678-85-W	59679-85-W
5SF-32-52	1	1	3-1/4	6	TiCN	59555-89-W	59680-89-W	59681-89-W	59682-89-W	59683-89-W	59684-89-W	59685-89-W
						59555-85-W	59680-85-W	59681-85-W	59682-85-W	59683-85-W	59684-85-W	59685-85-W
5SF-32-66	1	1	4-1/8	7	TiCN	59557-89-W	59686-89-W	59687-89-W	59688-89-W	59689-89-W	59690-89-W	59691-89-W
						59557-85-W	59686-85-W	59687-85-W	59688-85-W	59689-85-W	59690-85-W	59691-85-W





# Crest-Kut® Roughing/Finishing End Mills

Weldon® Crest-Kut® are one of the first tools designed to help save time and money by being able to rough and finish in one application. Weldon® offers this unique tool in a range of materials from High Speed Steel, Premium High Speed Steel and Powdered Metal (upon request), to help in machining materials from Alumium to Titanium. This unique tool has been copied by many, but there is still only one name in this tool style and that is the Weldon® “Crest-Kut®”.



As in the past, and going forward this tool will:

- Minimum Vibration and Chatter
- Efficient Distribution of Cutting Temperatures
- Compensating Cutting Forces
- Minimum Chip Recutting
- Maximum Cutting Edge Life
- Longer Tool Life
- Reduced Machine Down Time
- Easily Resharpened

## Finishing End Mills

Series	Description	Page
KB	2 Flute, Single End, High Speed Steel, M-7	34
KC	3 Flute, Single End, High Speed Steel, M-7	35
KA	4, 6, 8 and 10 Flute, Single End, High Speed Steel, M-7, Non-Center Cutting	36
KAC	4 and 6 Flute, Single End, High Speed Steel, M-7, Center Cutting	37
KPA	4, 6, and 8 Flute, Single End, Premium High Speed Steel, M42, Non-Center Cutting	38
KPAC	4, 6, and 8 Flute, Single End, Premium High Speed Steel, M42, Center Cutting	39
KP2	4, 6, and 8 Flute, Single End, Ground, Center Cutting	40
KP-RN	4 and 6 Flute, Single End, Reduce Neck, Center Cutting	41
	Aluminum and Non-Ferrous Technical Page	42
	Titanium and Ferrous Technical Page	43



# Crest-Kut® End Mills, 2 Flute

# M-7, HSS



Crest-Kuts® are designed to rough and finish in one operation. The sinusoidal wave minimizes chip re-cutting, reduces vibration and chatter thereby extending tool life.

- 30 Degree Right Hand Helix, Right Hand Cut
- Profile, Slot and Pocket
- Two Screw Drive on 7/8" Shanks and Larger
- Cutting Diameter Tolerance  $\pm .003/- .003$

- Available Upon Request:
  - Radius Ends
  - Whistle Notch
  - Additional Coatings

Part Number	Dia.	Shank	LOC	OAL	EDP	TICN EDP	ZrN EDP
KB16-3	1/2	1/2	1-1/4	3-1/4	65602-00-W	65602-89-W	65602-86-W
KB16-3A	1/2	1/2	2	4	65604-00-W	65604-89-W	65604-86-W
KB16-3B	1/2	1/2	3	5	65606-00-W	65606-89-W	65606-86-W
KB20-4	5/8	5/8	1-5/8	3-3/4	65608-00-W	65608-89-W	65608-86-W
KB20-4A	5/8	5/8	2-1/2	4-5/8	65610-00-W	65610-89-W	65610-86-W
KB20-4B	5/8	5/8	4	6-1/8	65612-00-W	65612-89-W	65612-86-W
KB24-5	3/4	3/4	1-5/8	3-7/8	65614-00-W	65614-89-W	65614-86-W
KB24-5A	3/4	3/4	3	5-1/4	65616-00-W	65616-89-W	65616-86-W
KB24-5B	3/4	3/4	4	6-1/4	65618-00-W	65618-89-W	65618-86-W
KB32-7	1	1	2	4-1/2	65620-00-W	65620-89-W	65620-86-W
KB32-7B	1	1	4	6-1/2	65622-00-W	65622-89-W	65622-86-W
KB32-7D	1	1	6	8-1/2	65624-00-W	65624-89-W	65624-86-W
KB40-8	1-1/4	1-1/4	2	4-1/2	65626-00-W	65626-89-W	65626-86-W
KB40-8B	1-1/4	1-1/4	4	6-1/2	65628-00-W	65628-89-W	65628-86-W
KB40-8D	1-1/4	1-1/4	6	8-1/2	65630-00-W	65630-89-W	65630-86-W
KB48-8	1-1/2	1-1/4	2	4-1/2	65632-00-W	65632-89-W	65632-86-W
KB48-8B	1-1/2	1-1/4	4	6-1/2	65634-00-W	65634-89-W	65634-86-W
KB48-8D	1-1/2	1-1/4	6	8-1/2	65636-00-W	65636-89-W	65636-86-W
KB64-11B	2	2	4	7-3/4	65638-00-W	65638-89-W	65638-86-W
KB64-11C	2	2	6	9-3/4	65640-00-W	65640-89-W	65640-86-W
KB64-11D	2	2	8	11-3/4	65642-00-W	65642-89-W	65642-86-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Crest-Kut® End Mills, 3 Flute

# M-7, HSS



Crest-Kuts® are designed to rough and finish in one operation. The sinusoidal wave minimizes chip re-cutting, reduces vibration and chatter thereby extending tool life. Three flutes offer a 50% increase feed over a similar two fluted tool.

- 30 Degree Right Hand Helix, Right Hand Cut
- Profile, Slot and Pocket
- Two Screw Drive on 7/8" Shanks and Larger

- Cutting Diameter Tolerance +.003/- .003

- Available Upon Request:
  - Radius Ends
  - Whistle Notch
  - Additional Coatings

Part Number	Dia.	Shank	LOC	OAL	EDP	TiCN EDP	ZrN EDP
KC16-3	1/2	1/2	1-1/4	3-1/4	65702-00-W	65702-89-W	65702-86-W
KC16-3A	1/2	1/2	2	4	65704-00-W	65704-89-W	65704-86-W
KC16-3B	1/2	1/2	3	5	65706-00-W	65706-89-W	65706-86-W
KC20-4	5/8	5/8	1-5/8	3-3/4	65708-00-W	65708-89-W	65708-86-W
KC20-4A	5/8	5/8	2-1/2	4-5/8	65710-00-W	65710-89-W	65710-86-W
KC20-4B	5/8	5/8	4	6-1/8	65712-00-W	65712-89-W	65712-86-W
KC24-5	3/4	3/4	1-5/8	3-7/8	65714-00-W	65714-89-W	65714-86-W
KC24-5A	3/4	3/4	3	5-1/4	65716-00-W	65716-89-W	65716-86-W
KC24-5B	3/4	3/4	4	6-1/4	65718-00-W	65718-89-W	65718-86-W
KC32-7	1	1	2	4-1/2	65720-00-W	65720-89-W	65720-86-W
KC32-7C	1	1	3	5-1/2	65722-00-W	65722-89-W	65722-86-W
KC32-7A	1	1	4	6-1/2	65724-00-W	65724-89-W	65724-86-W
KC32-7B	1	1	6	8-1/2	65726-00-W	65726-89-W	65726-86-W
KC40-8	1-1/4	1-1/4	2	4-1/2	65728-00-W	65728-89-W	65728-86-W
KC40-8C	1-1/4	1-1/4	3	5-1/2	65730-00-W	65730-89-W	65730-86-W
KC40-8A	1-1/4	1-1/4	4	6-1/2	65732-00-W	65732-89-W	65732-86-W
KC40-8B	1-1/4	1-1/4	6	8-1/2	65734-00-W	65734-89-W	65734-86-W
KC48-8	1-1/2	1-1/4	2	4-1/2	65736-00-W	65736-89-W	65736-86-W
KC48-8C	1-1/2	1-1/4	3	5-1/2	65738-00-W	65738-89-W	65738-86-W
KC48-8A	1-1/2	1-1/4	4	6-1/2	65742-00-W	65742-89-W	65742-86-W
KC48-8B	1-1/2	1-1/4	6	8-1/2	65744-00-W	65744-89-W	65744-86-W
KC48-9C	1-1/2	1-1/2	3	5-7/8	65740-00-W	65740-89-W	65740-86-W
KC64-11A	2	2	3	6-3/4	65746-00-W	65746-89-W	65746-86-W
KC64-11B	2	2	4	7-3/4	65748-00-W	65748-89-W	65748-86-W
KC64-11C	2	2	6	9-3/4	65750-00-W	65750-89-W	65750-86-W
KC64-11D	2	2	8	11-3/4	65752-00-W	65752-89-W	65752-86-W



# Crest-Kut® End Mills, Non-Center Cutting, Multi-Flute

## M-7, HSS



Crest-Kuts® are designed to rough and finish in one operation. The sinusoidal wave minimizes chip re-cutting, reduces vibration and chatter thereby extending tool life. These tool will not plunge.

- Non-Center Cutting, 4, 6, 8 and 10 Flutes
- 30 Degree Right Hand Helix, Right Hand Cut
- Two Screw Drive on 7/8" Shanks and Larger

- Cutting Diameter Tolerance  $\pm .003/- .003$

- Available Upon Request:
  - Radius Ends
  - Whistle Notch
  - Additional Coatings

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITiN EDP
KA12-2	3/8	3/8	3/4	2-1/2	4	65802-00-W	65802-89-W	65802-85-W
KA12-2A	3/8	3/8	1-3/8	3-1/8	4	65804-00-W	65804-89-W	65804-85-W
KA16-3	1/2	1/2	1-1/4	3-1/4	4	65806-00-W	65806-89-W	65806-85-W
KA16-3A	1/2	1/2	2	4	4	65808-00-W	65808-89-W	65808-85-W
KA16-3B	1/2	1/2	3	5	4	65810-00-W	65810-89-W	65810-85-W
KA20-4	5/8	5/8	1-5/8	3-3/4	4	65812-00-W	65812-89-W	65812-85-W
KA20-4A	5/8	5/8	2-1/2	4-5/8	4	65814-00-W	65814-89-W	65814-85-W
KA20-4B	5/8	5/8	4	6-1/8	4	65816-00-W	65816-89-W	65816-85-W
KA24-5	3/4	3/4	1-5/8	3-7/8	4	65818-00-W	65818-89-W	65818-85-W
KA24-5A	3/4	3/4	3	5-1/4	4	65820-00-W	65820-89-W	65820-85-W
KA24-5B	3/4	3/4	4	6-1/4	4	65822-00-W	65822-89-W	65822-85-W
KA28-5	7/8	3/4	1-7/8	4-1/8	4	65824-00-W	65824-89-W	65824-85-W
KA32-5	1	3/4	1-7/8	4-1/8	4	65826-00-W	65826-89-W	65826-85-W
KAF32-7	1	1	2	4-1/2	4	65828-00-W	65828-89-W	65828-85-W
KA32-7	1	1	2	4-1/2	6	65902-00-W	65902-89-W	65902-85-W
KA32-7A	1	1	3	5-1/2	6	65904-00-W	65904-89-W	65904-85-W
KAF32-7B	1	1	4	6-1/2	4	65830-00-W	65830-89-W	65830-85-W
KA32-7B	1	1	4	6-1/2	6	65906-00-W	65906-89-W	65906-85-W
KAF32-7D	1	1	6	8-1/2	4	65832-00-W	65832-89-W	65832-85-W
KA32-7D	1	1	6	8-1/2	6	65908-00-W	65908-89-W	65908-85-W
KA40-5	1-1/4	3/4	2	4-1/4	6	65910-00-W	65910-89-W	65910-85-W
KAF40-8	1-1/4	1-1/4	2	4-1/2	4	65834-00-W	65834-89-W	65834-85-W
KA40-8	1-1/4	1-1/4	2	4-1/2	6	65912-00-W	65912-89-W	65912-85-W
KA40-8A	1-1/4	1-1/4	3	5-1/2	6	65914-00-W	65914-89-W	65914-85-W
KAF40-8B	1-1/4	1-1/4	4	6-1/2	4	65836-00-W	65836-89-W	65836-85-W
KA40-8B	1-1/4	1-1/4	4	6-1/2	6	65916-00-W	65916-89-W	65916-85-W
KAF40-8D	1-1/4	1-1/4	6	8-1/2	4	65838-00-W	65838-89-W	65838-85-W
KA40-8D	1-1/4	1-1/4	6	8-1/2	6	65918-00-W	65918-89-W	65918-85-W
KA48-5	1-1/2	3/4	2	4-1/4	6	65920-00-W	65920-89-W	65920-85-W
KAF48-8	1-1/2	1-1/4	2	4-1/2	4	65840-00-W	65840-89-W	65840-85-W
KA48-8	1-1/2	1-1/4	2	4-1/2	6	65922-00-W	65922-89-W	65922-85-W
KA48-8A	1-1/2	1-1/4	3	5-1/2	6	65924-00-W	65924-89-W	65924-85-W
KAF48-8B	1-1/2	1-1/4	4	6-1/2	4	65842-00-W	65842-89-W	65842-85-W
KA48-8B	1-1/2	1-1/4	4	6-1/2	6	65926-00-W	65926-89-W	65926-85-W
KAF48-8D	1-1/2	1-1/4	6	8-1/2	4	65844-00-W	65844-89-W	65844-85-W
KA48-8D	1-1/2	1-1/4	6	8-1/2	6	65928-00-W	65928-89-W	65928-85-W
KAS64-8	2	1-1/4	2	4-1/2	6	65930-00-W	65930-89-W	65930-85-W
KA64-8	2	1-1/4	2	4-1/2	8	66002-00-W	66002-89-W	66002-85-W
KAS648-B	2	1-1/4	4	6-1/2	6	65932-00-W	65932-89-W	65932-85-W
KA64-8B	2	1-1/4	4	6-1/2	8	66004-00-W	66004-89-W	66004-85-W
KAF64-11B	2	2	4	7-3/4	4	65846-00-W	65846-89-W	65846-85-W
KAS64-11B	2	2	4	7-3/4	6	65934-00-W	65934-89-W	65934-85-W
KA64-11B	2	2	4	7-3/4	8	66006-00-W	66006-89-W	66006-85-W
KAS64-11E	2	2	5	8-3/4	6	65936-00-W	65936-89-W	65936-85-W
KA64-11E	2	2	5	8-3/4	8	66008-00-W	66008-89-W	66008-85-W
KAF64-11C	2	2	6	9-3/4	4	65848-00-W	65848-89-W	65848-85-W
KAS64-11C	2	2	6	9-3/4	6	65938-00-W	65938-89-W	65938-85-W
KA64-11C	2	2	6	9-3/4	8	66010-00-W	66010-89-W	66010-85-W
KAF64-11D	2	2	8	11-3/4	4	65850-00-W	65850-89-W	65850-85-W
KAS64-11D	2	2	8	11-3/4	6	65940-00-W	65940-89-W	65940-85-W
KA64-11D	2	2	8	11-3/4	8	66012-00-W	66012-89-W	66012-85-W
KA80-11	2-1/2	2	4	7-3/4	8	66014-00-W		
KA80-11B	2-1/2	2	6	9-3/4	8	66016-00-W		
KA80-11C	2-1/2	2	8	11-3/4	8	66018-00-W		
KA96-12	3	2-1/2	4	7-3/4	10	66020-00-W		
KA96-12B	3	2-1/2	6	9-3/4	10	66022-00-W		
KA96-12C	3	2-1/2	8	11-3/4	10	66024-00-W		

# Crest-Kut® End Mills, Center Cutting, Multi-Flute

## M-7, HSS



Crest-Kuts® are designed to rough and finish in one operation. The sinusoidal wave minimizes chip re-cutting, reduces vibration and chatter thereby extending tool life. These tools will profile, slot and pocket.

- 4 and 6 Flutes Center Cutting
- 30 Degree Right Hand Helix, Right Hand Cut
- Two Screw Drive on 7/8" Shanks and Larger

- Cutting Diameter Tolerance +.003/- .003

- Available Upon Request:
  - Radius Ends
  - Whistle Notch
  - Additional Coatings

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITIN EDP
KAC12-2	3/8	3/8	3/4	2-1/2	4	66102-00-W	66102-89-W	66102-85-W
KAC12-2A	3/8	3/8	1-3/8	3-1/8	4	66104-00-W	66104-89-W	66104-85-W
KAC16-3	1/2	1/2	1-1/4	3-1/4	4	66106-00-W	66106-89-W	66106-85-W
KAC16-3A	1/2	1/2	2	4	4	66108-00-W	66108-89-W	66108-85-W
KAC16-3B	1/2	1/2	3	5	4	66110-00-W	66110-89-W	66110-85-W
KAC20-4	5/8	5/8	1-5/8	3-3/4	4	66112-00-W	66112-89-W	66112-85-W
KAC20-4A	5/8	5/8	2-1/2	4-5/8	4	66114-00-W	66114-89-W	66114-85-W
KAC20-4B	5/8	5/8	4	6-1/8	4	66116-00-W	66116-89-W	66116-85-W
KAC24-5	3/4	3/4	1-5/8	3-7/8	4	66118-00-W	66118-89-W	66118-85-W
KAC24-5A	3/4	3/4	3	5-1/4	4	66120-00-W	66120-89-W	66120-85-W
KAC24-5B	3/4	3/4	4	6-1/4	4	66122-00-W	66122-89-W	66122-85-W
KAC28-6	7/8	7/8	1-7/8	4-1/8	4	66124-00-W	66124-89-W	66124-85-W
KAC28-6A	7/8	7/8	3-1/2	5-3/4	4	66126-00-W	66126-89-W	66126-85-W
KAC28-6B	7/8	7/8	5	7-1/4	4	66128-00-W	66128-89-W	66128-85-W
KAC32-7	1	1	2	4-1/2	4	66130-00-W	66130-89-W	66130-85-W
KAC32-7C	1	1	3	5-1/2	4	66132-00-W	66132-89-W	66132-85-W
KAC32-7A	1	1	4	6-1/2	4	66134-00-W	66134-89-W	66134-85-W
KAC32-7B	1	1	6	8-1/2	4	66136-00-W	66136-89-W	66136-85-W
KAC40-8	1-1/4	1-1/4	2	4-1/2	4	66138-00-W	66138-89-W	66138-85-W
KAC40-8C	1-1/4	1-1/4	3	5-1/2	4	66140-00-W	66140-89-W	66140-85-W
KAC40-8A	1-1/4	1-1/4	4	6-1/2	4	66142-00-W	66142-89-W	66142-85-W
KAC40-8B	1-1/4	1-1/4	6	8-1/2	4	66144-00-W	66144-89-W	66144-85-W
KAC48-8	1-1/2	1-1/4	2	4-1/2	4	66146-00-W	66146-89-W	66146-85-W
KAC48-8A	1-1/2	1-1/4	4	6-1/2	4	66148-00-W	66148-89-W	66148-85-W
KAC48-8B	1-1/2	1-1/4	6	8-1/2	4	66150-00-W	66150-89-W	66150-85-W
KAC64-11A	2	2	3	6-3/4	4	66152-00-W	66152-89-W	66152-85-W
KSC64-11A	2	2	3	6-3/4	6	66160-00-W	66160-89-W	66160-85-W
KAC64-11B	2	2	4	7-3/4	4	66154-00-W	66154-89-W	66154-85-W
KSC64-11B	2	2	4	7-3/4	6	66162-00-W	66162-89-W	66162-85-W
KSC64-11E	2	2	5	8-3/4	6	66164-00-W	66164-89-W	66164-85-W
KAC64-11C	2	2	6	9-3/4	4	66156-00-W	66156-89-W	66156-85-W
KSC64-11C	2	2	6	9-3/4	6	66166-00-W	66166-89-W	66166-85-W
KAC64-11D	2	2	8	11-3/4	4	66158-00-W	66158-89-W	66158-85-W

# Crest-Kut® End Mills, Non-Center Cutting, Multi-Flute

## M-42, HSS



- 4, 6 and 8 Flutes Non-Center Cutting
- 30 Degree Right Hand Helix, Right Hand Cut
- Two Screw Drive on 7/8" Shanks and Larger

- Cutting Diameter Tolerance  $\pm .003/- .003$

Crest-Kuts® are designed to rough and finish in one operation with excellent finish in titanium and ferrous alloys. The sinusoidal wave improves chip evacuation and minimizes chip re-cutting. These tools will not plunge.

- Available Upon Request:
  - Radius Ends
  - Whistle Notch
  - Additional Coatings

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITiN EDP
KPA12-2	3/8	3/8	3/4	2-1/2	4	66302-00-W	66302-89-W	66302-85-W
KPA12-2A	3/8	3/8	1-3/8	3-1/8	4	66304-00-W	66304-89-W	66304-85-W
KPA16-3	1/2	1/2	1-1/4	3-1/4	4	66306-00-W	66306-89-W	66306-85-W
KPA16-3A	1/2	1/2	2	4	4	66308-00-W	66308-89-W	66308-85-W
KPA16-3B	1/2	1/2	3	5	4	66310-00-W	66310-89-W	66310-85-W
KPA20-4	5/8	5/8	1-5/8	3-3/4	4	66312-00-W	66312-89-W	66312-85-W
KPA20-4A	5/8	5/8	2-1/2	4-5/8	4	66314-00-W	66314-89-W	66314-85-W
KPA20-4B	5/8	5/8	4	6-1/8	4	66316-00-W	66316-89-W	66316-85-W
KPA24-5	3/4	3/4	1-5/8	3-7/8	4	66318-00-W	66318-89-W	66318-85-W
KPA24-5A	3/4	3/4	3	5-1/4	4	66320-00-W	66320-89-W	66320-85-W
KPA24-5B	3/4	3/4	4	6-1/4	4	66322-00-W	66322-89-W	66322-85-W
KPA32-7	1	1	2	4-1/2	6	66402-00-W	66402-89-W	66402-85-W
KPA32-7A	1	1	3	5-1/2	6	66404-00-W	66404-89-W	66404-85-W
KPA32-7B	1	1	4	6-1/2	6	66406-00-W	66406-89-W	66406-85-W
KPA32-7D	1	1	6	8-1/2	6	66408-00-W	66408-89-W	66408-85-W
KPA40-8	1-1/4	1-1/4	2	4-1/2	6	66410-00-W	66410-89-W	66410-85-W
KPA40-8A	1-1/4	1-1/4	3	5-1/2	6	66412-00-W	66412-89-W	66412-85-W
KPA40-8B	1-1/4	1-1/4	4	6-1/2	6	66414-00-W	66414-89-W	66414-85-W
KPA40-8D	1-1/4	1-1/4	6	8-1/2	6	66416-00-W	66416-89-W	66416-85-W
KPA48-8	1-1/2	1-1/4	2	4-1/2	6	66418-00-W	66418-89-W	66418-85-W
KPA48-8A	1-1/2	1-1/4	3	5-1/2	6	66420-00-W	66420-89-W	66420-85-W
KPA48-8B	1-1/2	1-1/4	4	6-1/2	6	66422-00-W	66422-89-W	66422-85-W
KPA48-8D	1-1/2	1-1/4	6	8-1/2	6	66424-00-W	66424-89-W	66424-85-W
KPA64-8	2	1-1/4	2	4-1/2	8	66426-00-W	66426-89-W	66426-85-W
KPA64-8B	2	1-1/4	4	6-1/2	8	66428-00-W	66428-89-W	66428-85-W
KPA64-11B	2	2	4	7-3/4	8	66430-00-W	66430-89-W	66430-85-W
KPA64-11E	2	2	5	8-3/4	8	66432-00-W	66432-89-W	66432-85-W
KPA64-11C	2	2	6	9-3/4	8	66434-00-W	66434-89-W	66434-85-W
KPA64-11D	2	2	8	11-3/4	8	66436-00-W	66436-89-W	66436-85-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Crest-Kut® End Mills, Center Cutting, Multi-Flute

## M-42, HSS



Crest-Kuts® are designed to rough and finish in one operation with excellent finish in titanium and ferrous alloys. The sinusoidal wave improves chip evacuation and minimizes chip re-cutting.

- 4, 6 and 8 Flutes Center Cutting
- 30 Degree Right Hand Helix, Right Hand Cut
- Two Screw Drive on 7/8" Shanks and Larger

- Cutting Diameter Tolerance +.003/- .003

- Available Upon Request:
  - Radius Ends
  - Whistle Notch
  - Additional Coatings

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	Radius	EDP	TICN EDP	AITIN EDP
KPAC16-3A	1/2	1/2	2	4	4		66502-00-W	66502-89-W	66502-85-W
KPAC16-3B	1/2	1/2	3	5	4		66504-00-W	66504-89-W	66504-85-W
KPAC20-4A	5/8	5/8	2-1/2	4-5/8	4		66506-00-W	66506-89-W	66506-85-W
KPAC24-5A	3/4	3/4	2-1/4	4-1/2	4		66500-00-W	66500-89-W	66500-85-W
KPAC24-5A	3/4	3/4	3	5-1/4	4		66508-00-W	66508-89-W	66508-85-W
KPAC24-5D	3/4	3/4	4	6-1/4	4		66501-00-W	66501-89-W	66501-85-W
KPAC32-7	1	1	2	4-1/2	4		66510-00-W	66510-89-W	66510-85-W
KPAC32-7A	1	1	3	5-1/2	4		66523-00-W	66523-89-W	66523-85-W
KPAC32-7B	1	1	4	6-1/2	4		66512-00-W	66512-89-W	66512-85-W
KPSC32-7	1	1	2	4-1/2	6		66602-00-W	66602-89-W	66602-85-W
KPSC32-7A	1	1	3	5-1/4	6		66600-00-W	66600-89-W	66600-85-W
KPSC32-7B	1	1	4	6-1/2	6		66604-00-W	66604-89-W	66604-85-W
KPSC40-8	1-1/4	1-1/4	2	4-1/2	6		66606-00-W	66606-89-W	66606-85-W
KPSC40-8A	1-1/4	1-1/4	3	5-1/2	6		66608-00-W	66608-89-W	66608-85-W
KPSC40-8B	1-1/4	1-1/4	4	6-1/2	6		66610-00-W	66610-89-W	66610-85-W
KPSC40-8D	1-1/4	1-1/4	6	8-1/2	6		66612-00-W	66612-89-W	66612-85-W
KPAC48-8B	1-1/2	1-1/4	4	6-1/2	4		66514-00-W	66514-89-W	66514-85-W
KPSC48-8	1-1/2	1-1/4	2	4-1/2	6		66601-00-W	66601-89-W	66601-85-W
KPSC48-8A	1-1/2	1-1/4	3	5-1/2	6		66633-00-W	66633-89-W	66633-85-W
KPSC48-8B	1-1/2	1-1/4	4	6-1/2	6		66614-00-W	66614-89-W	66614-85-W
KPSC48-8D	1-1/2	1-1/4	6	8-1/2	6		66640-00-W	66640-89-W	66640-85-W
KPSC64-10	2	2	2	5-3/4	6		66641-00-W	66641-89-W	66641-85-W
KPSC64-10A	2	2	3	6-3/4	6		66642-00-W	66642-89-W	66642-85-W
KPSC64-10B	2	2	4	7-3/4	6		66616-00-W	66616-89-W	66616-85-W
KPSC64-10C	2	2	6	9-3/4	6		66618-00-W	66618-89-W	66618-85-W
KPEC64-10B	2	2	4	7-3/4	8		66620-00-W	66620-89-W	66620-85-W
KPEC64-10C	2	2	6	9-3/4	8		66622-00-W	66622-89-W	66622-85-W
KPSC64-10B125	2	2	4	7-3/4	6	0.125	66700-00-W	66700-89-W	66700-85-W
KPSC64-10B250	2	2	4	7-3/4	6	0.250	66702-00-W	66702-89-W	66702-85-W
KPSC64-10B375	2	2	4	7-3/4	6	0.375	66704-00-W	66704-89-W	66704-85-W
KPSC64-11C125	2	2	6	9-3/4	6	0.125	66712-00-W	66712-89-W	66712-85-W
KPSC64-10C250	2	2	6	9-3/4	6	0.250	66714-00-W	66714-89-W	66714-85-W
KPSC64-10C375	2	2	6	9-3/4	6	0.375	66716-00-W	66716-89-W	66716-85-W



# Crest-Kut<sup>2</sup>™ End Mills, Center Cutting, Multi-Flute-Ground

## M-42, HSS



The Crest-Kut<sup>2</sup>® end mills are the next generation of this renowned tool. Ground completely on a CNC platform, this next generation allows a heavier cut with a more uniform chip. Preferred by some operators for peripheral milling. All tools are supplied as center cuttings.

- 4, 6 and 8 Flutes Center Cutting
- 37 Degree Right Hand Helix, Right Hand Cut
- Two Screw Drive on 7/8" Shanks and Larger

- Cutting Diameter Tolerance  $\pm .003/- .003$

- Available Upon Request:
  - Radius Ends
  - Whistle Notch
  - Additional Coatings

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TiCN EDP	AlTiN EDP
KP2AC16-3A	1/2	1/2	2	4	4	77957-00-W	77957-89-W	77957-85-W
KP2AC16-3B	1/2	1/2	3	5	4	77958-00-W	77958-89-W	77958-85-W
KP2AC20-4A	5/8	5/8	2-1/2	4-5/8	4	77960-00-W	77960-89-W	77960-85-W
KP2AC24-5	3/4	3/4	2-1/4	4-1/2	4	77961-00-W	77961-89-W	77961-85-W
KP2AC24-5A	3/4	3/4	3	5-1/4	4	77963-00-W	77963-89-W	77963-85-W
KP2AC32-7	1	1	2	4-1/2	4	77964-00-W	77964-89-W	77964-85-W
KP2AC32-7A	1	1	3	5-1/2	4	77966-00-W	77966-89-W	77966-85-W
KP2SC32-7	1	1	2	4-1/2	6	77967-00-W	77967-89-W	77967-85-W
KP2SC32-7A	1	1	3	5-1/2	6	77969-00-W	77969-89-W	77969-85-W
KP2SC32-7B	1	1	4	6-1/2	6	77970-00-W	77970-89-W	77970-85-W
KP2SC40-8	1-1/4	1-1/4	2	4-1/2	6	77972-00-W	77972-89-W	77972-85-W
KP2SC40-8A	1-1/4	1-1/4	3	5-1/2	6	77973-00-W	77973-89-W	77973-85-W
KP2SC40-8B	1-1/4	1-1/4	4	6-1/2	6	77974-00-W	77974-89-W	77974-85-W
KP2SC40-8D	1-1/4	1-1/4	6	8-1/2	6	77975-00-W	77975-89-W	77975-85-W
KP2SC48-8A	1-1/2	1-1/4	3	5-1/2	6	77976-00-W	77976-89-W	77976-85-W
KP2SC48-8B	1-1/2	1-1/4	4	6-1/2	6	77977-00-W	77977-89-W	77977-85-W
KP2SC48-8D	1-1/2	1-1/4	6	8-1/2	6	77978-00-W	77978-89-W	77978-85-W
KP2SC64-10A	2	2	3	6-3/4	6	77979-00-W	77979-89-W	77979-85-W
KP2SC64-10B	2	2	4	7-3/4	6	77980-00-W	77980-89-W	77980-85-W
KP2SC64-10D	2	2	6	9-3/4	6	77981-00-W	77981-89-W	77981-85-W
KP2EC64-10B	2	2	4	7-3/4	8	77982-00-W	77982-89-W	77982-85-W
KP2EC64-10D	2	2	6	9-3/4	8	77983-00-W	77983-89-W	77983-85-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Crest-Kut® Reduced Neck, Center Cutting, Multi-Flute

## M-42, HSS



A reduced neck for reach and stability enables this tool to rough and finish in hard to reach areas where heavier cuts are required over a conventional end mill. All tools are supplied as center cutting.

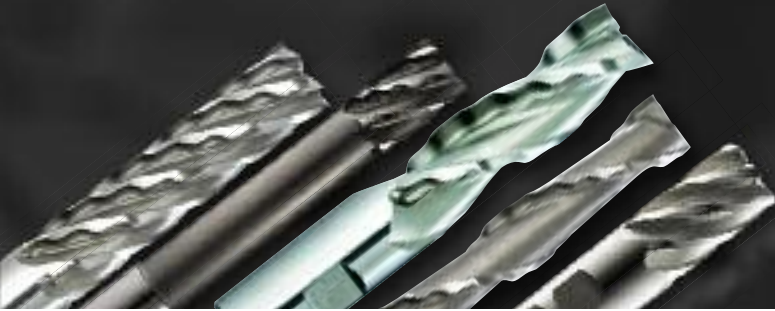
- 4 and 6 Flutes Center Cutting
- 30 Degree Right Hand Helix, Right Hand Cut
- Two Screw Drive on 7/8" Shanks and Larger

- Cutting Diameter Tolerance +.003/- .003

- Available Upon Request:
  - Radius Ends
  - Whistle Notch
  - Additional Coatings

Part Number	Dia.	Shank	LOC	LBS*	OAL	No. of Flutes	EDP	TICN EDP	AITIN EDP
KPACRN24-5	3/4	3/4	1	2	4-1/4	4	78105-00-W	78105-89-W	78105-85-W
KPACRN24-5A	3/4	3/4	3	3	5-1/4	4	78106-00-W	78106-89-W	78106-85-W
KPACRN32-7	1	1	1-1/4	2	4-1/2	4	78107-00-W	78107-89-W	78107-85-W
KPACRN32-7A	1	1	1-1/4	3	5-1/2	4	78108-00-W	78108-89-W	78108-85-W
KPACRN32-7B	1	1	1-1/4	4	6-1/2	4	78109-00-W	78109-89-W	78109-85-W
KPACRN32-7C	1	1	1-1/4	2	4-1/2	6	78110-00-W	78110-89-W	78110-85-W
KPACRN32-7A	1	1	1-1/4	3	5-1/2	6	78111-00-W	78111-89-W	78111-85-W
KPACRN32-7B	1	1	1-1/4	4	6-1/2	6	78112-00-W	78112-89-W	78112-85-W
KPACRN40-8	1-1/4	1-1/4	1-1/2	2	4-1/2	6	78113-00-W	78113-89-W	78113-85-W
KPACRN40-8A	1-1/4	1-1/4	1-1/2	3	5-1/2	6	78114-00-W	78114-89-W	78114-85-W
KPACRN40-8B	1-1/4	1-1/4	1-1/2	4	6-1/2	6	78115-00-W	78115-89-W	78115-85-W
KPACRN40-8D	1-1/4	1-1/4	1-1/2	6	8-1/2	6	78119-00-W	78119-89-W	78119-85-W
KPACRN48-8	1-1/2	1-1/4	1-1/2	2	4-1/2	6	78120-00-W	78120-89-W	78120-85-W
KPACRN48-8A	1-1/2	1-1/4	1-1/2	3	5-1/2	6	78121-00-W	78121-89-W	78121-85-W
KPACRN48-8B	1-1/2	1-1/4	1-1/2	4	6-1/2	6	78122-00-W	78122-89-W	78122-85-W
KPACRN48-8C	1-1/2	1-1/4	1-1/2	5	7-1/2	6	78123-00-W	78123-89-W	78123-85-W
KPACRN48-8D	1-1/2	1-1/4	1-1/2	6	8-1/2	6	78127-00-W	78127-89-W	78127-85-W
KPACRN64-10A	2	2	2-1/4	3	6-3/4	6	78128-00-W	78128-89-W	78128-85-W
KPACRN64-10B	2	2	2-1/4	4	7-3/4	6	78129-00-W	78129-89-W	78129-85-W
KPACRN64-10C	2	2	2-1/4	5	8-3/4	6	78130-00-W	78130-89-W	78130-85-W
KPACRN64-10D	2	2	2-1/4	6	9-3/4	6	78131-00-W	78131-89-W	78131-85-W

\*LBS: Length Below Shank



## HSS, Cobalt and Powdered Metal Speeds and Feeds Chart for Non-Ferrous Alloys

Speed in Surface Feet per Minute (SFM)		Feed in Feed per Tooth (FPT)				
Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass
Diameter	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass
	HSS SFM	450 - 650	150 - 300	200 - 400	250 - 450	250 - 450
	Cobalt SFM	600 - 800	200 - 400	250 - 500	300 - 600	300 - 600
	PM SFM	700 - Plus	300 - 600	400 - 700	450 - 800	450 - 900
1/4"	S	0.0024	0.0022	0.0020	0.0020	0.0020
	HP	0.0027	0.0027	0.0023	0.0023	0.0023
	LP	0.0037	0.0037	0.0032	0.0032	0.0032
3/8"	S	0.0038	0.0035	0.0032	0.0032	0.0032
	HP	0.0041	0.0041	0.0034	0.0034	0.0034
	LP	0.0054	0.0054	0.0047	0.0047	0.0047
1/2"	S	0.0060	0.0055	0.0050	0.0050	0.0050
	HP	0.0060	0.0060	0.0050	0.0050	0.0050
	LP	0.0080	0.0080	0.0070	0.0070	0.0070
5/8"	S	0.0065	0.0059	0.0054	0.0054	0.0054
	HP	0.0070	0.0070	0.0059	0.0059	0.0059
	LP	0.0095	0.0095	0.0085	0.0085	0.0085
3/4"	S	0.0068	0.0062	0.0057	0.0057	0.0057
	HP	0.0077	0.0077	0.0064	0.0064	0.0064
	LP	0.0103	0.0103	0.0090	0.0090	0.0090
1"	S	0.0108	0.0099	0.0090	0.0090	0.0090
	HP	0.0114	0.0114	0.0095	0.0095	0.0095
	LP	0.0152	0.0152	0.0133	0.0133	0.0133
1-1/4"	S	0.0115	0.0106	0.0096	0.0096	0.0096
	HP	0.0122	0.0122	0.0102	0.0102	0.0102
	LP	0.0162	0.0162	0.0142	0.0142	0.0142
1-1/2"	S	0.0194	0.0178	0.0162	0.0162	0.0162
	HP	0.0217	0.0217	0.0181	0.0181	0.0181
	LP	0.0289	0.0289	0.0253	0.0253	0.0253
2"	S	0.0220	0.0202	0.0184	0.0184	0.0184
	HP	0.0278	0.0278	0.0231	0.0231	0.0231
	LP	0.0370	0.0370	0.0324	0.0324	0.0324

**S = SLOTTING**  
Axial Depth up to  
1.0 x Diameter  
High Coolant Pressure

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.5 x Diameter  
Radial with .5 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to  
2.0 x Diameter  
Radial with .2 x Diameter

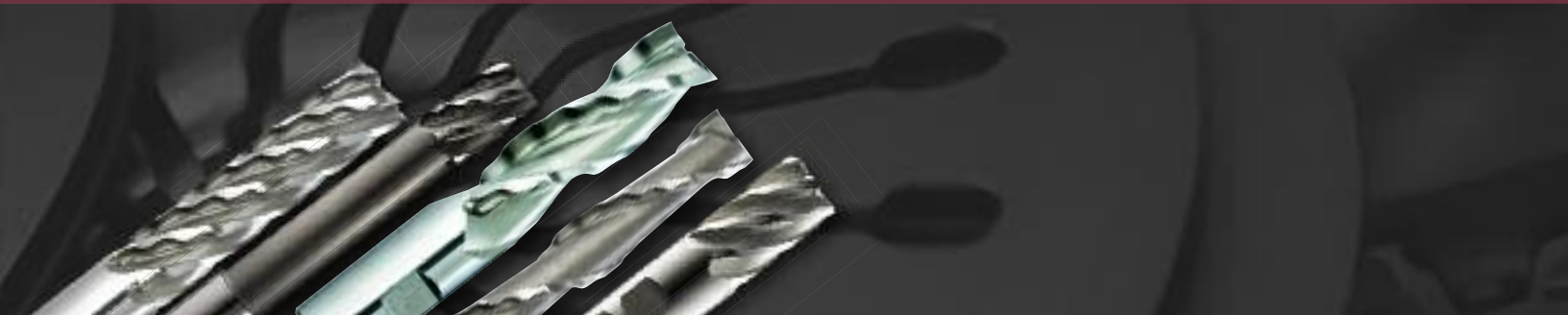
**CALCULATIONS FOR SPEED**  
RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**CALCULATIONS FOR FEED**  
IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mills will improve tool life.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





## HSS, Cobalt and Powdered Metal Speeds and Feeds Chart for Ferrous Alloys

Speed in Surface Feet per Minute (SFM)

Feed in Feed per Tooth (FPT)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought
Diameter	Description	10XX, 15XX,	40XX, 41XX, 86XX, Series	316L	416, 440C	15-5PH, AM-xx Series	Gray	Ductile	A286, Haynes	Pure	Cast/Wrought Alpha - Beta
	HSS SFM	50 - 110	30 - 80	30 - 80	50 - 100	30 - 65	55 - 150	35 - 75	5 - 30	40 - 90	35 - 80
	Cobalt SFM	60 - 120	30 - 100	30 - 90	50 - 110	30 - 70	60 - 160	40 - 80	5 - 35	55 - 100	40 - 90
	PM SFM	70 - 140	40 - 110	40 - 100	60 - 120	40 - 80	70 - 180	50 - 90	5 - 40	70 - 120	50 - 100
1/4"	S	0.0013	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0008	0.0013	0.0010
	HP	0.0015	0.0010	0.0013	0.0013	0.0010	0.0010	0.0013	0.0008	0.0015	0.0012
	LP	0.0019	0.0018	0.0018	0.0018	0.0018	0.0023	0.0020	0.0018	0.0019	0.0018
3/8"	S	0.0019	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0011	0.0019	0.0015
	HP	0.0023	0.0015	0.0019	0.0019	0.0015	0.0015	0.0019	0.0011	0.0023	0.0017
	LP	0.0028	0.0026	0.0026	0.0026	0.0026	0.0034	0.0030	0.0026	0.0028	0.0026
1/2"	S	0.0025	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0015	0.0025	0.0020
	HP	0.0030	0.0020	0.0025	0.0025	0.0020	0.0020	0.0025	0.0015	0.0030	0.0023
	LP	0.0037	0.0035	0.0035	0.0035	0.0035	0.0045	0.0040	0.0035	0.0037	0.0035
5/8"	S	0.0033	0.0024	0.0027	0.0027	0.0024	0.0024	0.0027	0.0017	0.0033	0.0025
	HP	0.0038	0.0026	0.0031	0.0031	0.0025	0.0025	0.0031	0.0019	0.0038	0.0029
	LP	0.0049	0.0044	0.0044	0.0044	0.0044	0.0057	0.0050	0.0044	0.0046	0.0044
3/4"	S	0.0038	0.0026	0.0032	0.0032	0.0026	0.0026	0.0032	0.0019	0.0038	0.0029
	HP	0.0043	0.0029	0.0036	0.0036	0.0029	0.0029	0.0036	0.0021	0.0043	0.0033
	LP	0.0053	0.0050	0.0050	0.0050	0.0050	0.0064	0.0057	0.0050	0.0053	0.0050
1"	S	0.0054	0.0036	0.0045	0.0045	0.0036	0.0036	0.0045	0.0027	0.0054	0.0041
	HP	0.0060	0.0040	0.0050	0.0050	0.0040	0.0040	0.0050	0.0030	0.0060	0.0046
	LP	0.0074	0.0070	0.0070	0.0070	0.0070	0.0090	0.0080	0.0070	0.0074	0.0070
1-1/4"	S	0.0069	0.0046	0.0058	0.0058	0.0046	0.0046	0.0058	0.0035	0.0069	0.0053
	HP	0.0075	0.0050	0.0063	0.0063	0.0050	0.0050	0.0063	0.0038	0.0075	0.0058
	LP	0.0093	0.0088	0.0088	0.0088	0.0088	0.0113	0.0100	0.0088	0.0093	0.0088
1-1/2"	S	0.0081	0.0054	0.0068	0.0068	0.0054	0.0054	0.0068	0.0041	0.0081	0.0062
	HP	0.0090	0.0060	0.0075	0.0075	0.0060	0.0060	0.0075	0.0045	0.0090	0.0069
	LP	0.0111	0.0105	0.0105	0.0105	0.0105	0.0135	0.0120	0.0105	0.0111	0.0105
2"	S	0.0108	0.0072	0.0090	0.0090	0.0072	0.0072	0.0090	0.0054	0.0108	0.0083
	HP	0.0120	0.0080	0.0100	0.0100	0.0080	0.0080	0.0100	0.0060	0.0120	0.0092
	LP	0.0148	0.0140	0.0140	0.0140	0.0140	0.0180	0.0160	0.0140	0.0148	0.0140

**S = SLOTTING**

Axial Depth up to 1.0 x Diameter  
High Coolant Pressure

**CALCULATIONS FOR SPEED**

RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**HP = HEAVY PERIPHERAL**

Axial Depth up to 2 x Diameter  
Radial width >.3 x Diameter

**CALCULATIONS FOR FEED**

IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

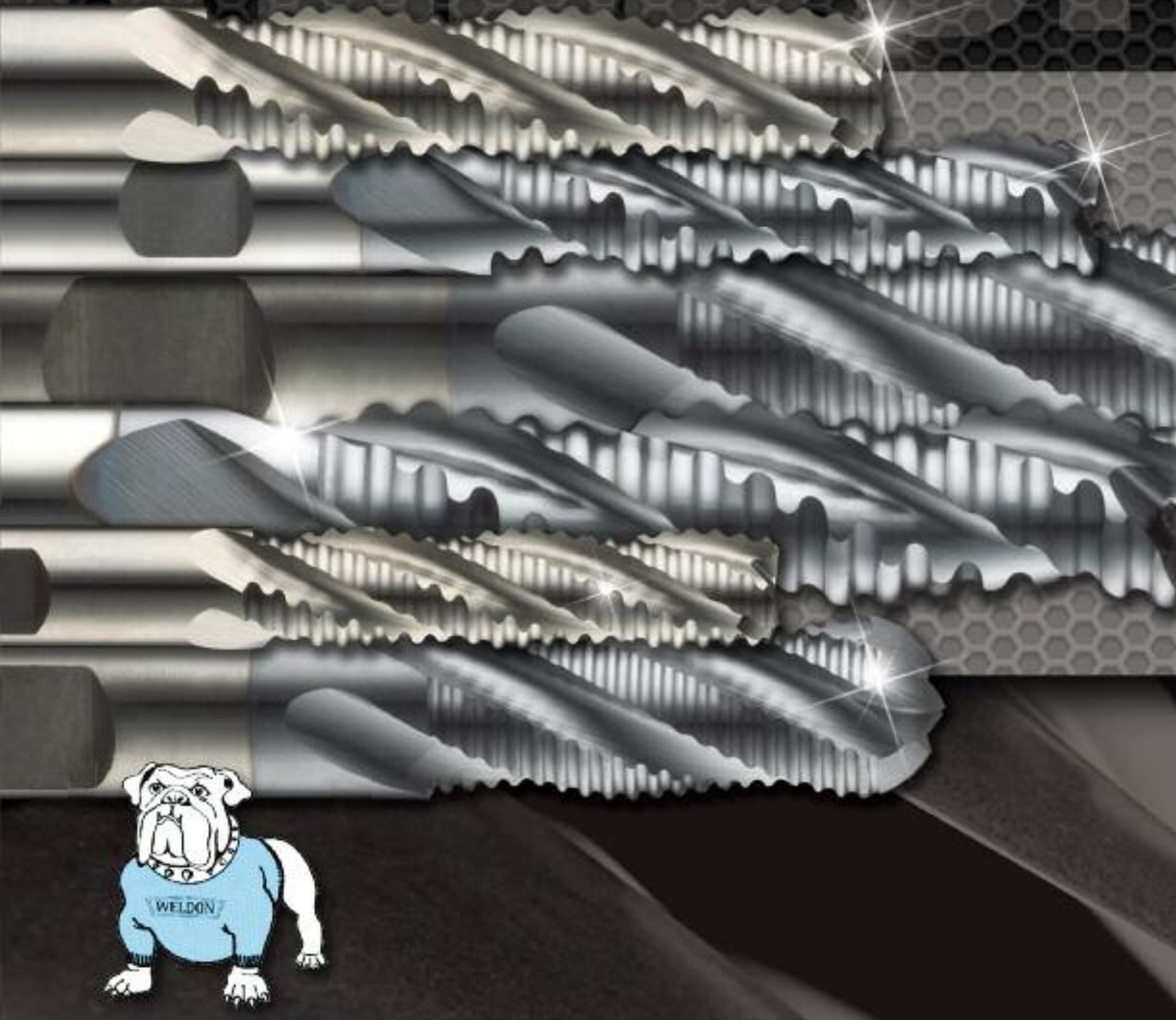
**LP = LIGHT PERIPHERAL**

Axial Depth up to 3.0 x Diameter  
Radial width >.05 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mill will improve tool life.



# WELDON





# Bulldog® Roughing End Mills

Bulldog® roughing end mills have a sinusoidal chipbreaker form which produces small chips. This feature allows the tool to run at faster feed rates than conventional tools resulting in higher material removal rates. Parts machined with these tools usually require a finishing pass with a conventional tool. The roughing end mills are offered with different substrates and several tooth forms that match tool design to specific applications.



## Roughing End Mills

Series		Page
WRF	3 Flute, Center Cutting, M-7, HSS, Fine Pitch for Aluminum	46
WR	Multi-Flute, Non-Center Cutting, M-7, HSS, Coarse Pitch	47
WR	Multi-Flute, Non-Center Cutting, M-7, HSS, Coarse Pitch for Bridgeport's	48
SR	Shell Mills, M-7, HSS, Coarse Pitch	49
WRC	Multi-Flute, Non-Center Cutting, M-42, HSS, Cobalt, Coarse Pitch	50
WRC	Multi-Flute, Non-Center Cutting, M-7, HSS, Coarse Pitch for Bridgeport's	51
WRCC	Multi-Flute, Center Cutting, M-42, HSS, Cobalt, Coarse Pitch	52
WRCR	Multi-Flute, Ball End, M-42, HSS, Cobalt, Coarse Pitch	53
SRC	Shell Mills, M-42, HSS, Cobalt, Fine Pitch	54
WRCF	Multi-Flute, Non-Center Cutting, M-42, HSS, Fine Pitch	55
WRCCF	Multi-Flute, Center Cutting, M-42, HSS, Cobalt, Fine Pitch	56
WRCRF	Multi-Flute, Non-Center Cutting, M-42, HSS, Fine Pitch	57
	Aluminum and Non-Ferrous Technical	58
	Titanium and Ferrous Technical	59

# Bulldog® Roughers, Three Flute, Fine Pitch for Aluminum

## M-7, HSS



- For Soft Materials
- Plunge and Ramp
- Profile, Slot and Pocket
- High Speed Steel
- 35 Degree Right Hand Cut
- Deep Flutes for Chip Evacuation
- Cutting Diameter Tolerance +.005/- .000
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	EDP	TIN EDP	TICN EDP
WRF12-2	3/8	3/8	3/4	2-1/2	64302-00-W	64302-88-W	64302-89-W
WRF16-3A	1/2	1/2	1-1/4	3-1/4	64304-00-W	64304-88-W	64304-89-W
WRF16-3B	1/2	1/2	2	4	64306-00-W	64306-88-W	64306-89-W
WRF20-4	5/8	5/8	1-5/8	3-3/4	64308-00-W	64308-88-W	64308-89-W
WRF20-4B	5/8	5/8	2-1/2	4-5/8	64310-00-W	64310-88-W	64310-89-W
WRF24-5	3/4	3/4	1-5/8	3-7/8	64312-00-W	64312-88-W	64312-89-W
WRF24-5B	3/4	3/4	3	5-1/4	64314-00-W	64314-88-W	64314-89-W
WRF28-5	7/8	3/4	1-7/8	4-1/8	64316-00-W	64316-88-W	64316-89-W
WRF32-7	1	1	2	4-1/2	64318-00-W	64318-88-W	64318-89-W
WRF32-7A	1	1	3	5-1/2	64320-00-W	64320-88-W	64320-89-W
WRF32-7B	1	1	4	6-1/2	64322-00-W	64322-88-W	64322-89-W
WRF40-8	1-1/4	1-1/4	2	4-1/2	64324-00-W	64324-88-W	64324-89-W
WRF40-8A	1-1/4	1-1/4	3	5-1/2	64326-00-W	64326-88-W	64326-89-W
WRF40-8B	1-1/4	1-1/4	4	6-1/2	64328-00-W	64328-88-W	64328-89-W
WRF48-8	1-1/2	1-1/4	2	4-1/2	64330-00-W	64330-88-W	64330-89-W
WRF48-8A	1-1/2	1-1/4	3	5-1/2	64332-00-W	64332-88-W	64332-89-W
WRF48-8B	1-1/2	1-1/4	4	6-1/2	64334-00-W	64334-88-W	64334-89-W
WRF64-11	2	2	2	5-3/4	64336-00-W	64336-88-W	64336-89-W
WRF64-11A	2	2	3	6-3/4	64338-00-W	64338-88-W	64338-89-W
WRF64-11B	2	2	4	7-3/4	64340-00-W	64340-88-W	64340-89-W
WRF64-11D	2	2	6	9-3/4	64342-00-W	64342-88-W	64342-89-W
WRF64-11F	2	2	8	11-3/4	64344-00-W	64344-88-W	64344-89-W



For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Single End Multi-Flute, Coarse Pitch Roughers, Non-Center Cutting

## M-7, HSS



- For Medium Hardness Materials
- Will Not Plunge
- Profile and Open-Ended Slotting
- High Speed Steel
- 30 Degree Right Hand Cut, Right Hand Helix
- Heavy Core for Rigidity
- Cutting Diameter Tolerance  $\pm .005/- .000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TIN EDP	TICN EDP
WR8-2	1/4	3/8	5/8	2-7/16	3	64000-00-W	64000-88-W	64000-89-W
WR10-2	5/16	3/8	3/4	2-1/2	3	64002-00-W	64002-88-W	64002-89-W
WR12-2	3/8	3/8	3/4	2-1/2	4	64004-00-W	64004-88-W	64004-89-W
WR16-3	1/2	1/2	1	3	4	64006-00-W	64006-88-W	64006-89-W
WR16-3A	1/2	1/2	1-1/4	3-1/4	4	64008-00-W	64008-88-W	64008-89-W
WR16-3B	1/2	1/2	2	4	4	64010-00-W	64010-88-W	64010-89-W
WR20-4	5/8	5/8	1-5/8	3-3/4	4	64012-00-W	64012-88-W	64012-89-W
WR20-4B	5/8	5/8	2-1/2	4-5/8	4	64014-00-W	64014-88-W	64014-89-W
WR24-5	3/4	3/4	1-5/8	3-7/8	4	64016-00-W	64016-88-W	64016-89-W
WR24-5B	3/4	3/4	3	5-1/4	4	64018-00-W	64018-88-W	64018-89-W
WR28-5	7/8	3/4	1-7/8	4-1/8	5	64020-00-W	64020-88-W	64020-89-W
WR28-5B	7/8	3/4	3-1/2	5-3/4	5	64022-00-W	64022-88-W	64022-89-W
WR32-5	1	3/4	3/4	3	5	64024-00-W	64024-88-W	64024-89-W
WR32-5A	1	3/4	1-7/8	4-1/8	5	64026-00-W	64026-88-W	64026-89-W
WR32-5B	1	3/4	4	6-1/4	5	64028-00-W	64028-88-W	64028-89-W
WR32-7	1	1	2	4-1/2	5	64030-00-W	64030-88-W	64030-89-W
WR32-7A	1	1	3	5-1/2	5	64032-00-W	64032-88-W	64032-89-W
WR32-7B	1	1	4	6-1/2	5	64034-00-W	64034-88-W	64034-89-W
WR36-7	1-1/8	1	2	4-1/2	6	64036-00-W	64036-88-W	64036-89-W
WR40-5	1-1/4	3/4	2	4-1/4	6	64038-00-W	64038-88-W	64038-89-W
WR40-5B	1-1/4	3/4	4	6-1/4	6	64040-00-W	64040-88-W	64040-89-W
WR40-8	1-1/4	1-1/4	2	4-1/2	6	64042-00-W	64042-88-W	64042-89-W
WR40-8A	1-1/4	1-1/4	3	5-1/2	6	64044-00-W	64044-88-W	64044-89-W
WR40-8B	1-1/4	1-1/4	4	6-1/2	6	64046-00-W	64046-88-W	64046-89-W
WR48-5	1-1/2	3/4	3/4	3	6	64048-00-W	64048-88-W	64048-89-W
WR48-5A	1-1/2	3/4	2-1/4	4-1/2	6	64050-00-W	64050-88-W	64050-89-W
WR48-5B	1-1/2	3/4	4	6-1/4	6	64052-00-W	64052-88-W	64052-89-W
WR48-8	1-1/2	1-1/4	2	4-1/2	6	64054-00-W	64054-88-W	64054-89-W
WR48-A	1-1/2	1-1/4	3	5-1/2	6	64056-00-W	64056-88-W	64056-89-W
WR48-8B	1-1/2	1-1/4	4	6-1/2	6	64058-00-W	64058-88-W	64058-89-W
WR48-8C	1-1/2	1-1/4	6	8-1/2	6	64060-00-W	64060-88-W	64060-89-W
WR56-8	1-3/4	1-1/4	2-1/2	5	6	64062-00-W	64062-88-W	64062-89-W
WR56-8A	1-3/4	1-1/4	4-1/2	7	6	64064-00-W	64064-88-W	64064-89-W
WR64-8	2	1-1/4	2	4-1/2	8	64066-00-W	64066-88-W	64066-89-W
WR64-8A	2	1-1/4	4	6-1/2	8	64068-00-W	64068-88-W	64068-89-W
WR64-11A	2	2	3	6-3/4	8	64070-00-W	64070-88-W	64070-89-W
WR64-11B	2	2	4	7-3/4	8	64072-00-W	64072-88-W	64072-89-W
WR64-11C	2	2	5	8-3/4	8	64074-00-W	64074-88-W	64074-89-W
WR64-11D	2	2	6	9-3/4	8	64076-00-W	64076-88-W	64076-89-W
WR64-11E	2	2	7	10-3/4	8	64078-00-W	64078-88-W	64078-89-W
WR64-11F	2	2	8	11-3/4	8	64080-00-W	64080-88-W	64080-89-W
WR80-11	2-1/2	2	4	7-3/4	8	64082-00-W		
WR80-11A	2-1/2	2	6	9-3/4	8	64084-00-W		
WR80-11B	2-1/2	2	8	11-3/4	8	64086-00-W		
WR80-11C	2-1/2	2	10	13-3/4	8	64088-00-W		
WR80-11D	2-1/2	2	12	15-3/4	8	64090-00-W		
WR96-12	3	2-1/2	4	7-3/4	10	64092-00-W		
WR96-12A	3	2-1/2	6	9-3/4	10	64094-00-W		
WR96-12B	3	2-1/2	8	11-3/4	10	64096-00-W		
WR96-12C	3	2-1/2	10	13-3/4	10	64098-00-W		
WR96-12D	3	2-1/2	12	15-3/4	10	64099-00-W		



# Single End Multi-Flute, Coarse Pitch Roughers for Bridgeports, Non-Center Cutting

## M-7, HSS



- For Medium Hardness Materials
- Will Not Plunge
- Profile and Open-Ended Slotting
- High Speed Steel
- 30 Degree Right Hand Cut, Right Hand Helix
- Cutting Diameter Tolerance  $+.005/- .000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TIN EDP	TICN EDP
WR28-5	7/8	3/4	1-7/8	4-1/8	5	64020-00-W	64020-88-W	64020-89-W
WR32-5	1	3/4	3/4	3	5	64024-00-W	64024-88-W	64024-89-W
WR32-5A	1	3/4	1-7/8	4-1/8	5	64026-00-W	64026-88-W	64026-89-W
WR32-5B	1	3/4	4	6-1/4	5	64028-00-W	64028-88-W	64028-89-W
WR40-5	1-1/4	3/4	2	4-1/4	6	64038-00-W	64038-88-W	64038-89-W
WR40-5B	1-1/4	3/4	4	6-1/4	6	64040-00-W	64040-88-W	64040-89-W
WR48-5	1-1/2	3/4	3/4	3	6	64048-00-W	64048-88-W	64048-89-W
WR48-5A	1-1/2	3/4	2-1/4	4-1/2	6	64050-00-W	64050-88-W	64050-89-W
WR48-5B	1-1/2	3/4	4	6-1/4	6	64052-00-W	64052-88-W	64052-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Shell Type Multi-Flute Coarse Pitch Roughers, Non-Center Cutting

M-7, HSS



- For Medium Hardness Material
- Will Not Plunge
- Profile and Open-Ended Slotting
- High Speed Steel
- 20 Degree Helix, Right Hand Cut
- Right Hand Helix
- Cutting Diameter Tolerance  $+.015/-0.000$

Part Number	Dia.	LOC	Hole Diameter	Drive Slot Width	Drive Slot Depth	No. of Teeth	EDP
SR200-5	2	2	3/4	5/16	3/16	8	65202-00-W
SR225-7	2-1/4	2	1	3/8	7/32	8	65204-00-W
SR250-7	2-1/2	2	1	3/8	7/32	8	65206-00-W
SR275-7	2-3/4	2	1	3/8	7/32	8	65208-00-W
SR300-8	3	2	1-1/4	1/2	9/32	10	65210-00-W
SR350-8	3-1/2	2	1-1/4	1/2	9/32	10	65212-00-W
SR400-9	4	2-1/4	1-1/2	5/8	3/8	12	65214-00-W
SR450-9	4-1/2	2-1/4	1-1/2	5/8	3/8	14	65216-00-W
SR500-9	5	2-1/4	1-1/2	5/8	3/8	14	65218-00-W
SR550-10	5-1/2	2-1/4	2	3/4	7/16	16	65220-00-W
SR600-10	6	2-1/4	2	3/4	7/16	16	65222-00-W



# Single End Multi-Flute, Coarse Pitch Roughers, Non-Center Cutting

## M-42, HSS



- For Medium to Medium Hardness Materials
- Will Not Plunge
- Profile and Open-Ended Slotting
- 8% Cobalt High Speed Steel
- 30 Degree Right Hand Cut, Right Hand Helix
- Heavy Core for Rigidity
- Cutting Diameter Tolerance +.005/-.000
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITiN EDP
WRC8-2	1/4	3/8	5/8	2-7/16	3	64410-00-W	64410-89-W	64410-85-W
WRC10-2	5/16	3/8	3/4	2-1/2	3	64420-00-W	64420-89-W	64420-85-W
WRC12-2	3/8	3/8	3/4	2-1/2	4	64430-00-W	64430-89-W	64430-85-W
WRC16-3	1/2	1/2	1	3	4	64440-00-W	64440-89-W	64440-85-W
WRC16-3A	1/2	1/2	1-1/4	3-1/4	4	64442-00-W	64442-89-W	64442-85-W
WRC16-3B	1/2	1/2	2	4	4	64444-00-W	64444-89-W	64444-85-W
WRC20-4	5/8	5/8	1-5/8	3-3/4	4	64450-00-W	64450-89-W	64450-85-W
WRC20-4B	5/8	5/8	2-1/2	4-5/8	4	64452-00-W	64452-89-W	64452-85-W
WRC24-5	3/4	3/4	1-5/8	3-7/8	4	64460-00-W	64460-89-W	64460-85-W
WRC24-5B	3/4	3/4	3	5-1/4	4	64462-00-W	64462-89-W	64462-85-W
WRC28-5	7/8	3/4	1-7/8	4-1/8	5	64470-00-W	64470-89-W	64470-85-W
WRC28-5B	7/8	3/4	3-1/2	5-3/4	5	64472-00-W	64472-89-W	64472-85-W
WRC32-5A	1	3/4	1-7/8	4-1/8	5	64480-00-W	64480-89-W	64480-85-W
WRC32-5B	1	3/4	4	6-1/4	5	64482-00-W	64482-89-W	64482-85-W
WRC32-7	1	1	2	4-1/2	5	64484-00-W	64484-89-W	64484-85-W
WRC32-7A	1	1	3	5-1/2	5	64486-00-W	64486-89-W	64486-85-W
WRC32-7B	1	1	4	6-1/2	5	64488-00-W	64488-89-W	64488-85-W
WRC36-7	1-1/8	1	2	4-1/2	6	64490-00-W	64490-89-W	64490-85-W
WRC40-5	1-1/4	3/4	2	4-1/4	6	64500-00-W	64500-89-W	64500-85-W
WRC40-5B	1-1/4	3/4	4	6-1/4	6	64502-00-W	64502-89-W	64502-85-W
WRC40-8	1-1/4	1-1/4	2	4-1/2	6	64504-00-W	64504-89-W	64504-85-W
WRC40-8A	1-1/4	1-1/4	3	5-1/2	6	64506-00-W	64506-89-W	64506-85-W
WRC40-8B	1-1/4	1-1/4	4	6-1/2	6	64508-00-W	64508-89-W	64508-85-W
WRC48-5A	1-1/2	3/4	2-1/4	4-1/2	6	64510-00-W	64510-89-W	64510-85-W
WRC48-8B	1-1/2	3/4	4	6-1/4	6	64512-00-W	64512-89-W	64512-85-W
WRC48-8	1-1/2	1-1/4	2	4-1/2	6	64514-00-W	64514-89-W	64514-85-W
WRC48-8A	1-1/2	1-1/4	3	5-1/2	6	64516-00-W	64516-89-W	64516-85-W
WRC48-8B	1-1/2	1-1/4	4	6-1/2	6	64518-00-W	64518-89-W	64518-85-W
WRC48-8C	1-1/2	1-1/4	6	8-1/2	6	64520-00-W	64520-89-W	64520-85-W
WRC56-8	1-3/4	1-1/4	2-1/2	5	6	64530-00-W	64530-89-W	64530-85-W
WRC56-8A	1-3/4	1-1/4	4-1/2	7	6	64532-00-W	64532-89-W	64532-85-W
WRC64-8	2	1-1/4	2	4-1/2	8	64540-00-W	64540-89-W	64540-85-W
WRC64-8A	2	1-1/4	4	6-1/2	8	64542-00-W	64542-89-W	64542-85-W
WRC64-11A	2	2	3	6-3/4	8	64544-00-W	64544-89-W	64544-85-W
WRC64-11B	2	2	4	7-3/4	8	64546-00-W	64546-89-W	64546-85-W
WRC64-11C	2	2	5	8-3/4	8	64548-00-W	64548-89-W	64548-85-W
WRC64-11D	2	2	6	9-3/4	8	64550-00-W	64550-89-W	64550-85-W
WRC64-11E	2	2	7	10-3/4	8	64552-00-W	64552-89-W	64552-85-W
WRC64-11F	2	2	8	11-3/4	8	64554-00-W	64554-89-W	64554-85-W
WRC64-11G	2	2	10	13-3/4	8	64556-00-W	64556-89-W	64556-85-W
WRC64-11H	2	2	12	15-3/4	8	64558-00-W	64558-89-W	64558-85-W
WRC80-11	2-1/2	2	4	7-3/4	8	64560-00-W	64560-89-W	64560-85-W
WRC80-11A	2-1/2	2	6	9-3/4	8	64562-00-W	64562-89-W	64562-85-W
WRC80-11B	2-1/2	2	8	11-3/4	8	64564-00-W	64564-89-W	64564-85-W
WRC80-11C	2-1/2	2	10	13-3/4	8	64566-00-W	64566-89-W	64566-85-W
WRC80-11D	2-1/2	2	12	15-3/4	8	64568-00-W	64568-89-W	64568-85-W
WRC96-12	3	2-1/2	4	7-3/4	10	64570-00-W	64570-89-W	64570-85-W
WRC96-12A	3	2-1/2	6	9-3/4	10	64572-00-W	64572-89-W	64572-85-W
WRC96-12B	3	2-1/2	8	11-3/4	10	64574-00-W	64574-89-W	64574-85-W
WRC96-12C	3	2-1/2	10	13-3/4	10	64576-00-W	64576-89-W	64576-85-W
WRC96-12D	3	2-1/2	12	15-3/4	10	64578-00-W	64578-89-W	64578-85-W

# Bulldog® Roughers, Coarse Pitch for Bridgeport, Non-Center Cutting

M-42, HSS



- For Medium to Medium Hardness Materials
- Will Not Plunge
- Profile and Open-Ended Slotting
- 8% Cobalt High Speed Steel
- 30 Degree Right Hand Cut, Right Hand Helix
- Heavy Core for Rigidity
- Cutting Diameter Tolerance  $+.005/-0.000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITIN EDP
WRC28-5	7/8	3/4	1-7/8	4-1/8	5	64470-00-W	64470-89-W	64470-85-W
WRC32-5A	1	3/4	1-7/8	4-1/8	5	64480-00-W	64480-89-W	64480-85-W
WRC32-5B	1	3/4	4	6-1/4	5	64482-00-W	64482-89-W	64482-85-W
WRC40-5	1-1/4	3/4	2	4-1/4	6	64500-00-W	64500-89-W	64500-85-W
WRC40-5B	1-1/4	3/4	4	6-1/4	6	64502-00-W	64502-89-W	64502-85-W
WRC48-5A	1-1/2	3/4	2-1/4	4-1/2	6	64510-00-W	64510-89-W	64510-85-W
WRC48-5B	1-1/2	3/4	4	6-1/4	6	64512-00-W	64512-89-W	64512-85-W





# Single End Multi-Flute, Coarse Pitch Roughers, Center Cutting

## M-42, HSS



- For Medium Hardness Materials
- 30 Degree Right Hand Cut, Right Hand Helix
- Two Screw Drive on 7/8" Shanks and Larger
- Plunge and Ramp
- Profile, Slot and Pocket
- Cutting Diameter Tolerance +.005/- .000
- 8% Cobalt High Speed Steel

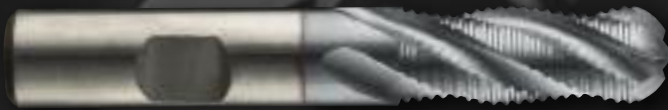
Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITiN EDP
WRCCS8-2	1/4	3/8	1/4	2-1/16	3	64108-00-W	64108-89-W	64108-85-W
WRCCS12-2	3/8	3/8	3/8	2-5/32	4	64112-00-W	64112-89-W	64112-85-W
WRCCS16-3	1/2	1/2	1/2	2-1/2	4	64116-00-W	64116-89-W	64116-85-W
WRCC16-3A	1/2	1/2	1-1/4	3-1/4	4	64602-00-W	64602-89-W	64602-85-W
WRCC16-3B	1/2	1/2	2	4	4	64604-00-W	64604-89-W	64604-85-W
WRCCS20-4	5/8	5/8	5/8	2-3/4	4	64120-00-W	64120-89-W	64120-85-W
WRCC20-4	5/8	5/8	1-5/8	3-3/4	4	64606-00-W	64606-89-W	64606-85-W
WRCC20-4B	5/8	5/8	2-1/2	4-5/8	4	64608-00-W	64608-89-W	64608-85-W
WRCCS24-5	3/4	3/4	3/4	2-7/8	4	64124-00-W	64124-89-W	64124-85-W
WRCC24-5	3/4	3/4	1-5/8	3-7/8	4	64610-00-W	64610-89-W	64610-85-W
WRCC24-5B	3/4	3/4	3	5-1/4	4	64612-00-W	64612-89-W	64612-85-W
WRCC28-5	7/8	3/4	1-7/8	4-1/8	5	64614-00-W	64614-89-W	64614-85-W
WRCCS32-7	1	1	1	3-1/2	5	64132-00-W	64132-89-W	64132-85-W
WRCC32-7	1	1	2	4-1/2	5	64616-00-W	64616-89-W	64616-85-W
WRCC32-7A	1	1	3	5-1/2	5	64618-00-W	64618-89-W	64618-85-W
WRCC32-7B	1	1	4	6-1/2	5	64620-00-W	64620-89-W	64620-85-W
WRCCS40-8	1-1/4	1-1/4	1-1/4	3-3/4	6	64140-00-W	64140-89-W	64140-85-W
WRCC40-8	1-1/4	1-1/4	2	4-1/2	6	64622-00-W	64622-89-W	64622-85-W
WRCC40-8A	1-1/4	1-1/4	3	5-1/2	6	64624-00-W	64624-89-W	64624-85-W
WRCC40-8B	1-1/4	1-1/4	4	6-1/2	6	64626-00-W	64626-89-W	64626-85-W
WRCC48-8	1-1/2	1-1/4	2	4-1/2	6	64628-00-W	64628-89-W	64628-85-W
WRCC48-8A	1-1/2	1-1/4	3	5-1/2	6	64630-00-W	64630-89-W	64630-85-W
WRCC48-8B	1-1/2	1-1/4	4	6-1/2	6	64632-00-W	64632-89-W	64632-85-W
WRCC64-11	2	2	2	5-3/4	8	64634-00-W	64634-89-W	64634-85-W
WRCC64-11A	2	2	3	6-3/4	8	64636-00-W	64636-89-W	64636-85-W
WRCC64-11B	2	2	4	7-3/4	8	64638-00-W	64638-89-W	64638-85-W
WRCC64-11D	2	2	6	9-3/4	8	64640-00-W	64640-89-W	64640-85-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Single End Multi-Flute Ball, Coarse Pitch Roughers, Center Cutting

M-42, HSS



- For Medium Hardness Materials
- Plunge and Ramp
- Profile, Slot and Pocket
- 8% Cobalt High Speed Steel
- Large Core for Rigidity
- 30 Degree Right Hand Cut, Right Hand Helix
- Cutting Diameter Tolerance  $+.005/-0.000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITIN EDP
WRCR16-3A	1/2	1/2	1-1/4	3-1/4	4	64702-00-W	64702-89-W	64702-85-W
WRCR16-3B	1/2	1/2	2	4	4	64704-00-W	64704-89-W	64704-85-W
WRCR20-4	5/8	5/8	1-5/8	3-3/4	4	64706-00-W	64706-89-W	64706-85-W
WRCR20-4B	5/8	5/8	2-1/2	4-5/8	4	64708-00-W	64708-89-W	64708-85-W
WRCR24-5	3/4	3/4	1-5/8	3-7/8	4	64710-00-W	64710-89-W	64710-85-W
WRCR24-5B	3/4	3/4	3	5-1/4	4	64712-00-W	64712-89-W	64712-85-W
WRCR32-7	1	1	2	4-1/2	5	64714-00-W	64714-89-W	64714-85-W
WRCR32-7B	1	1	4	6-1/2	5	64716-00-W	64716-89-W	64716-85-W
WRCR40-8	1-1/4	1-1/4	2	4-1/2	6	64718-00-W	64718-89-W	64718-85-W
WRCR40-8B	1-1/4	1-1/4	4	6-1/2	6	64720-00-W	64720-89-W	64720-85-W
WRCR48-8	1-1/2	1-1/4	2	4-1/2	6	64722-00-W	64722-89-W	64722-85-W
WRCR48-8B	1-1/2	1-1/4	4	6-1/2	6	64724-00-W	64724-89-W	64724-85-W
WRCR64-11B	2	2	4	7-3/4	8	64726-00-W	64726-89-W	64726-85-W
WRCR64-11D	2	2	6	9-3/4	8	64728-00-W	64728-89-W	64728-85-W



# Shell Type Multi-Flute Fine Pitch Roughers, Non-Center Cutting

M-42, HSS



- For Medium Hardness Material
- Will Not Plunge
- Profile and Open-Ended Slotting
- 8% Cobalt High Speed Steel
- 20 Degree Right Hand Helix, Right Hand Cut
- Cutting Diameter Tolerance  $+.015/-0.000$

Part Number	Dia.	LOC	Hole Diameter	Drive Slot Width	Drive Slot Depth	No. of Teeth	EDP
SRC200-5	2	2	3/4	5/16	3/16	8	65110-00-W
SRC225-7	2-1/4	2	1	3/8	7/32	8	65112-00-W
SRC250-7	2-1/2	2	1	3/8	7/32	8	65114-00-W
SRC275-7	2-3/4	2	1	3/8	7/32	8	65116-00-W
SRC300-8	3	2	1-1/4	1/2	9/32	10	65118-00-W
SRC350-8	3-1/2	2	1-1/4	1/2	9/32	10	65120-00-W
SRC400-9	4	2-1/4	1-1/2	5/8	3/8	12	65122-00-W
SRC450-9	4-1/2	2-1/4	1-1/2	5/8	3/8	14	65124-00-W
SRC500-9	5	2-1/4	1-1/2	5/8	3/8	14	65126-00-W
SRC550-10	5-1/2	2-1/4	2	3/4	7/16	16	65128-00-W
SRC600-10	6	2-1/4	2	3/4	7/16	16	65130-00-W



For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Single End Multi-Flute, Fine Pitch Roughers, Non-Center Cutting

## M-42, HSS



- For High Temperature Alloys and Stainless Steel
- Plunge and Ramp
- Profile, Slot and Pocket
- 8% Cobalt High Speed Steel
- 30 Degree Helix, Right Hand Cut, Right Hand Helix
- Fine Chip for Easier Evacuation
- Cutting Diameter Tolerance +.005/- .000
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITIN EDP
WRCF8-2	1/4	3/8	5/8	2-7/16	3	64902-00-W	64902-89-W	64902-85-W
WRCF10-2	5/16	3/8	3/4	2-1/2	3	64904-00-W	64904-89-W	64904-85-W
WRCF12-2	3/8	3/8	3/4	2-1/2	4	64906-00-W	64906-89-W	64906-85-W
WRCF16-3A	1/2	1/2	1-1/4	3-1/4	4	64908-00-W	64908-89-W	64908-85-W
WRCF16-3B	1/2	1/2	2	4	4	64910-00-W	64910-89-W	64910-85-W
WRCF20-4	5/8	5/8	1-5/8	3-3/4	4	64912-00-W	64912-89-W	64912-85-W
WRCF20-4B	5/8	5/8	2-1/2	4-5/8	4	64914-00-W	64914-89-W	64914-85-W
WRCF24-5	3/4	3/4	1-5/8	3-7/8	4	64916-00-W	64916-89-W	64916-85-W
WRCF24-5B	3/4	3/4	3	5-1/4	4	64918-00-W	64918-89-W	64918-85-W
WRCF28-5	7/8	3/4	1-7/8	4-1/8	5	64920-00-W	64920-89-W	64920-85-W
WRCF28-5B	7/8	3/4	3-1/2	5-3/4	5	64922-00-W	64922-89-W	64922-85-W
WRCF32-7	1	1	2	4-1/2	5	64924-00-W	64924-89-W	64924-85-W
WRCF32-7A	1	1	3	5-1/2	5	64926-00-W	64926-89-W	64926-85-W
WRCF32-7B	1	1	4	6-1/2	5	64928-00-W	64928-89-W	64928-85-W
WRCF36-7	1-1/8	1	2	4-1/2	6	64930-00-W	64930-89-W	64930-85-W
WRCF40-8	1-1/4	1-1/4	2	4-1/2	6	64932-00-W	64932-89-W	64932-85-W
WRCF40-8A	1-1/4	1-1/4	3	5-1/2	6	64934-00-W	64934-89-W	64934-85-W
WRCF40-8B	1-1/4	1-1/4	4	6-1/2	6	64936-00-W	64936-89-W	64936-85-W
WRCF48-8	1-1/2	1-1/4	2	4-1/2	6	64938-00-W	64938-89-W	64938-85-W
WRCF48-8A	1-1/2	1-1/4	3	5-1/2	6	64940-00-W	64940-89-W	64940-85-W
WRCF48-8B	1-1/2	1-1/4	4	6-1/2	6	64942-00-W	64942-89-W	64942-85-W
WRCF48-8C	1-1/2	1-1/4	6	8-1/2	6	64944-00-W	64944-89-W	64944-85-W
WRCF56-8	1-3/4	1-1/4	2-1/2	5	6	64946-00-W	64946-89-W	64946-85-W
WRCF56-8A	1-3/4	1-1/4	4-1/2	7	6	64948-00-W	64948-89-W	64948-85-W
WRCF64-8	2	1-1/4	2	4-1/2	8	64950-00-W	64950-89-W	64950-85-W
WRCF64-8A	2	1-1/4	4	6-1/2	8	64952-00-W	64952-89-W	64952-85-W
WRCF64-11A	2	2	3	6-3/4	8	64954-00-W	64954-89-W	64954-85-W
WRCF64-11B	2	2	4	7-3/4	8	64956-00-W	64956-89-W	64956-85-W
WRCF64-11C	2	2	5	8-3/4	8	64958-00-W	64958-89-W	64958-85-W
WRCF64-11D	2	2	6	9-3/4	8	64960-00-W	64960-89-W	64960-85-W
WRCF64-11E	2	2	7	10-3/4	8	64962-00-W	64962-89-W	64962-85-W
WRCF64-11F	2	2	8	11-3/4	8	64964-00-W	64964-89-W	64964-85-W



# Single End Multi-Flute, Fine Pitch Roughers, Center Cutting

## M-42, HSS



- For High Temperature Alloys and Stainless Steel
- Plunge and Ramp
- Profile, Slot and Pocket
- 8% Cobalt High Speed Steel
- 30 Degree Right Hand Cut, Right Hand Helix
- Fine Chip for Easier Evacuation
- Cutting Diameter Tolerance +.005/-0.000
- Two Screw Drive on 7/8" Shanks and Larger

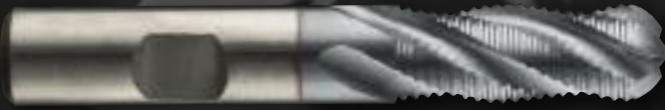
Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITiN EDP
WRCCFS8-2	1/4	3/8	1/4	2-1/16	3	64158-00-W	64158-89-W	64158-85-W
WRCCFS12-2	3/8	3/8	3/8	2-5/32	4	64162-00-W	64162-89-W	64162-85-W
WRCCFS16-3	1/2	1/2	1/2	2-1/2	4	64166-00-W	64166-89-W	64166-85-W
WRCCF16-3A	1/2	1/2	1-1/4	3-1/4	4	65002-00-W	65002-89-W	65002-85-W
WRCCF16-3B	1/2	1/2	2	4	4	65004-00-W	65004-89-W	65004-85-W
WRCCFS20-4	5/8	5/8	5/8	2-3/4	4	64168-00-W	64168-89-W	64168-85-W
WRCCF20-4	5/8	5/8	1-5/8	3-3/4	4	65006-00-W	65006-89-W	65006-85-W
WRCCF20-4B	5/8	5/8	2-1/2	4-5/8	4	65008-00-W	65008-89-W	65008-85-W
WRCCFS24-5	3/4	3/4	3/4	2-7/8	4	64170-00-W	64170-89-W	64170-85-W
WRCCF24-5	3/4	3/4	1-5/8	3-7/8	4	65010-00-W	65010-89-W	65010-85-W
WRCCF24-5B	3/4	3/4	3	5-1/4	4	65012-00-W	65012-89-W	65012-85-W
WRCCF28-5	7/8	3/4	1-7/8	4-1/8	5	65014-00-W	65014-89-W	65014-85-W
WRCCFS32-7	1	1	1	3-1/2	5	64172-00-W	64172-89-W	64172-85-W
WRCCF32-7	1	1	2	4-1/2	5	65016-00-W	65016-89-W	65016-85-W
WRCCF32-7A	1	1	3	5-1/2	5	65018-00-W	65018-89-W	65018-85-W
WRCCF32-7B	1	1	4	6-1/2	5	65020-00-W	65020-89-W	65020-85-W
WRCCFS40-8	1-1/4	1-1/4	1-1/4	3-3/4	6	64174-00-W	64174-89-W	64174-85-W
WRCCF40-8	1-1/4	1-1/4	2	4-1/2	6	65022-00-W	65022-89-W	65022-85-W
WRCCF40-8A	1-1/4	1-1/4	3	5-1/2	6	65024-00-W	65024-89-W	65024-85-W
WRCCF40-8B	1-1/4	1-1/4	4	6-1/2	6	65026-00-W	65026-89-W	65026-85-W
WRCCF48-8	1-1/2	1-1/4	2	4-1/2	6	65028-00-W	65028-89-W	65028-85-W
WRCCF48-8A	1-1/2	1-1/4	3	5-1/2	6	65030-00-W	65030-89-W	65030-85-W
WRCCF48-8B	1-1/2	1-1/4	4	6-1/2	6	65032-00-W	65032-89-W	65032-85-W
WRCCF64-11	2	2	2	5-3/4	8	65034-00-W	65034-89-W	65034-85-W
WRCCF64-11A	2	2	3	6-3/4	8	65036-00-W	65036-89-W	65036-85-W
WRCCF64-11B	2	2	4	7-3/4	8	65038-00-W	65038-89-W	65038-85-W
WRCCF64-11D	2	2	6	9-3/4	8	65040-00-W	65040-89-W	65040-85-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Single End Multi-Flute Ball, Fine Pitch Roughers, Center Cutting

M-42, HSS



- For High Temperature Alloys and Stainless Steel
- Plunge and Ramp
- Profile, Slot and Pocket
- 8% Cobalt High Speed Steel
- 30 Degree Helix, Right Hand Cut, Right Hand Helix
- Fine Chip for Easier Evacuation
- Cutting Diameter Tolerance +.005/- .000
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITIN EDP
WRCRF16-3A	1/2	1/2	1-1/4	3-1/4	4	64202-00-W	64202-89-W	64202-85-W
WRCRF20-4	5/8	5/8	1-5/8	3-3/4	4	64204-00-W	64204-89-W	64204-85-W
WRCRF24-5	3/4	3/4	1-5/8	3-7/8	4	64206-00-W	64206-89-W	64206-85-W
WRCRF32-7	1	1	2	4-1/2	5	64208-00-W	64208-89-W	64208-85-W
WRCRF40-8	1-1/4	1-1/4	2	4-1/2	6	64210-00-W	64210-89-W	64210-85-W
WRCRF48-8	1-1/2	1-1/4	2	4-1/2	6	64212-00-W	64212-89-W	64212-85-W
WRCRF64-11B	2	2	4	7-3/4	8	64214-00-W	64214-89-W	64214-85-W
WRCRF64-11D	2	2	6	9-3/4	8	64216-00-W	64216-89-W	64216-85-W





## HSS, Cobalt and Powdered Metal Speeds and Feeds Chart for Non-Ferrous Alloys

Speed in Surface Feet per Minute (SFM)		Feed in Feed per Tooth (FPT)				
Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass
Dia.	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass
	HSS SFM	450 - 650	150 - 300	200 - 400	250 - 450	250 - 450
	Cobalt SFM	600 - 800	200 - 400	250 - 500	300 - 600	300 - 600
	PM SFM	700 - Plus	300 - 600	400 - 700	450 - 800	450 - 900
1/4"	S	0.0024	0.0022	0.0020	0.0020	0.0020
	HP	0.0027	0.0027	0.0023	0.0023	0.0023
	LP	0.0037	0.0037	0.0032	0.0032	0.0032
3/8"	S	0.0038	0.0035	0.0032	0.0032	0.0032
	HP	0.0041	0.0041	0.0034	0.0034	0.0034
	LP	0.0054	0.0054	0.0047	0.0047	0.0047
1/2"	S	0.0060	0.0055	0.0050	0.0050	0.0050
	HP	0.0060	0.0060	0.0050	0.0050	0.0050
	LP	0.0080	0.0080	0.0070	0.0070	0.0070
5/8"	S	0.0065	0.0059	0.0054	0.0054	0.0054
	HP	0.0070	0.0070	0.0059	0.0059	0.0059
	LP	0.0095	0.0095	0.0085	0.0085	0.0085
3/4"	S	0.0068	0.0062	0.0057	0.0057	0.0057
	HP	0.0077	0.0077	0.0064	0.0064	0.0064
	LP	0.0103	0.0103	0.0090	0.0090	0.0090
1"	S	0.0108	0.0099	0.0090	0.0090	0.0090
	HP	0.0114	0.0114	0.0095	0.0095	0.0095
	LP	0.0152	0.0152	0.0133	0.0133	0.0133
1-1/4"	S	0.0115	0.0106	0.0096	0.0096	0.0096
	HP	0.0122	0.0122	0.0102	0.0102	0.0102
	LP	0.0162	0.0162	0.0142	0.0142	0.0142
1-1/2"	S	0.0194	0.0178	0.0162	0.0162	0.0162
	HP	0.0217	0.0217	0.0181	0.0181	0.0181
	LP	0.0289	0.0289	0.0253	0.0253	0.0253
2"	S	0.0220	0.0202	0.0184	0.0184	0.0184
	HP	0.0278	0.0278	0.0231	0.0231	0.0231
	LP	0.0370	0.0370	0.0324	0.0324	0.0324

**S = SLOTTING**  
Axial Depth up to  
1.0 x Diameter  
High Coolant Pressure

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.5 x Diameter  
Radial with .5 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to  
2.0 x Diameter  
Radial with .2 x Diameter

**CALCULATIONS FOR SPEED**  
RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**CALCULATIONS FOR FEED**  
IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mills will improve tool life.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





## HSS, Cobalt and Powdered Metal Speeds and Feeds Chart for Ferrous Alloys

Speed in Surface Feet per Minute (SFM)

Feed in Feed per Tooth (FPT)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought
Dia.	Description	10XX, 15XX,	40XX, 41XX, 86XX, Series	316L	416, 440C	15-5PH, AM-xx Series	Gray	Ductile	A286, Haynes	Pure	Cast/Wrought Alpha - Beta
	HSS SFM	50 - 110	30 - 80	30 - 80	50 - 100	30 - 65	55 - 150	35 - 75	5 - 30	40 - 90	35 - 80
	Cobalt SFM	60 - 120	30 - 100	30 - 90	50 - 110	30 - 70	60 - 160	40 - 80	5 - 35	55 - 100	40 - 90
	PM SFM	70 - 140	40 - 110	40 - 100	60 - 120	40 - 80	70 - 180	50 - 90	5 - 40	70 - 120	50 - 100
1/4"	S	0.0013	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0008	0.0013	0.0010
	HP	0.0015	0.0010	0.0013	0.0013	0.0010	0.0010	0.0013	0.0008	0.0015	0.0012
	LP	0.0019	0.0018	0.0018	0.0018	0.0018	0.0023	0.0020	0.0018	0.0019	0.0018
3/8"	S	0.0019	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0011	0.0019	0.0015
	HP	0.0023	0.0015	0.0019	0.0019	0.0015	0.0015	0.0019	0.0011	0.0023	0.0017
	LP	0.0028	0.0026	0.0026	0.0026	0.0026	0.0034	0.0030	0.0026	0.0028	0.0026
1/2"	S	0.0025	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0015	0.0025	0.0020
	HP	0.0030	0.0020	0.0025	0.0025	0.0020	0.0020	0.0025	0.0015	0.0030	0.0023
	LP	0.0037	0.0035	0.0035	0.0035	0.0035	0.0045	0.0040	0.0035	0.0037	0.0035
5/8"	S	0.0033	0.0024	0.0027	0.0027	0.0024	0.0024	0.0027	0.0017	0.0033	0.0025
	HP	0.0038	0.0026	0.0031	0.0031	0.0025	0.0025	0.0031	0.0019	0.0038	0.0029
	LP	0.0049	0.0044	0.0044	0.0044	0.0044	0.0057	0.0050	0.0044	0.0046	0.0044
3/4"	S	0.0038	0.0026	0.0032	0.0032	0.0026	0.0026	0.0032	0.0019	0.0038	0.0029
	HP	0.0043	0.0029	0.0036	0.0036	0.0029	0.0029	0.0036	0.0021	0.0043	0.0033
	LP	0.0053	0.0050	0.0050	0.0050	0.0050	0.0064	0.0057	0.0050	0.0053	0.0050
1"	S	0.0054	0.0036	0.0045	0.0045	0.0036	0.0036	0.0045	0.0027	0.0054	0.0041
	HP	0.0060	0.0040	0.0050	0.0050	0.0040	0.0040	0.0050	0.0030	0.0060	0.0046
	LP	0.0074	0.0070	0.0070	0.0070	0.0070	0.0090	0.0080	0.0070	0.0074	0.0070
1-1/4"	S	0.0069	0.0046	0.0058	0.0058	0.0046	0.0046	0.0058	0.0035	0.0069	0.0053
	HP	0.0075	0.0050	0.0063	0.0063	0.0050	0.0050	0.0063	0.0038	0.0075	0.0058
	LP	0.0093	0.0088	0.0088	0.0088	0.0088	0.0113	0.0100	0.0088	0.0093	0.0088
1-1/2"	S	0.0081	0.0054	0.0068	0.0068	0.0054	0.0054	0.0068	0.0041	0.0081	0.0062
	HP	0.0090	0.0060	0.0075	0.0075	0.0060	0.0060	0.0075	0.0045	0.0090	0.0069
	LP	0.0111	0.0105	0.0105	0.0105	0.0105	0.0135	0.0120	0.0105	0.0111	0.0105
2"	S	0.0108	0.0072	0.0090	0.0090	0.0072	0.0072	0.0090	0.0054	0.0108	0.0083
	HP	0.0120	0.0080	0.0100	0.0100	0.0080	0.0080	0.0100	0.0060	0.0120	0.0092
	LP	0.0148	0.0140	0.0140	0.0140	0.0140	0.0180	0.0160	0.0140	0.0148	0.0140

**S = SLOTTING**

Axial Depth up to 1.0 x Diameter  
High Coolant Pressure

**CALCULATIONS FOR SPEED**

RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**HP = HEAVY PERIPHERAL**

Axial Depth up to 1.5 x Diameter  
Radial width >.5 x Diameter

**CALCULATIONS FOR FEED**

IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

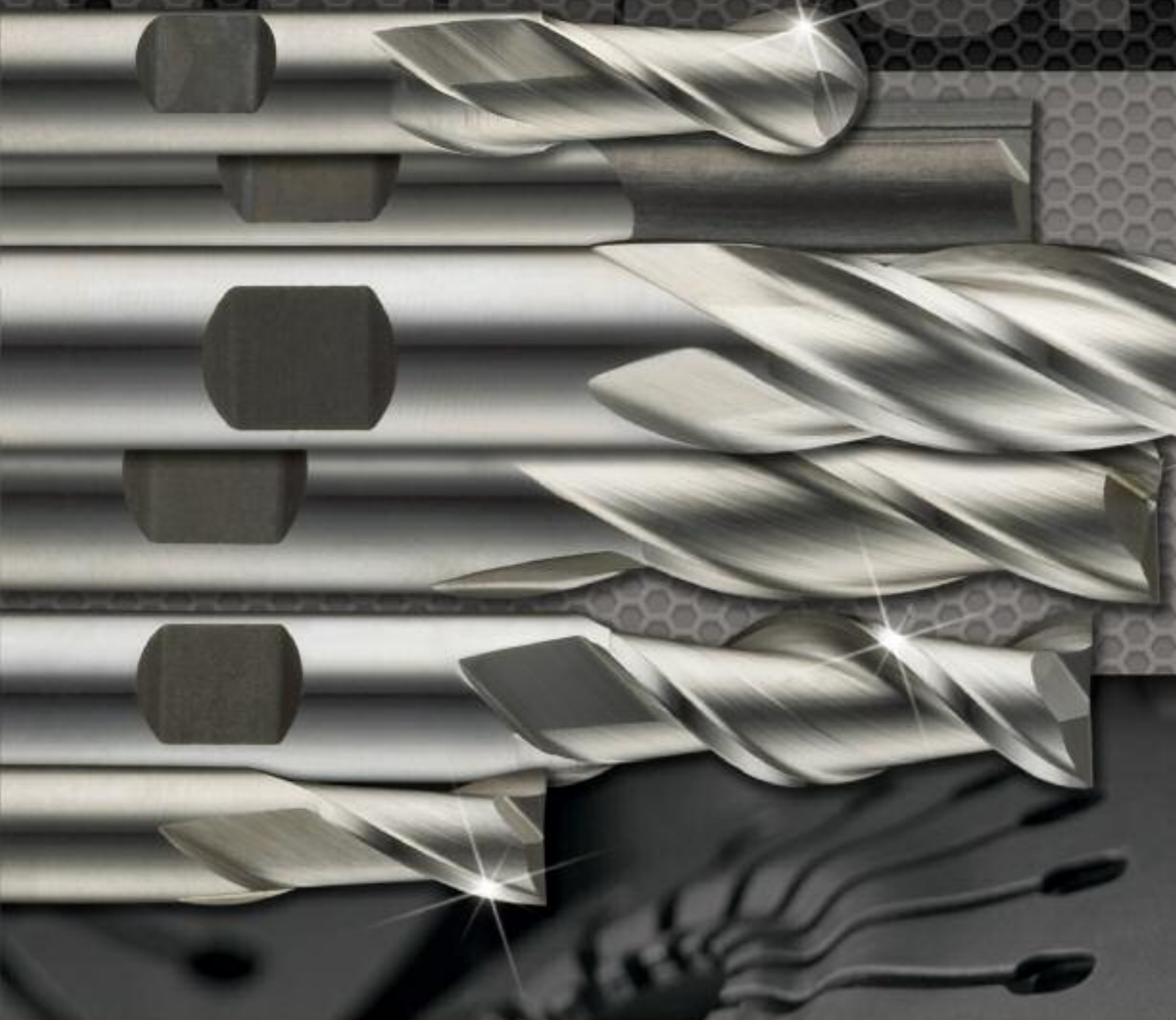
**LP = LIGHT PERIPHERAL**

Axial Depth up to 2.0 x Diameter  
Radial width >.2 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mill will improve tool life.



# WELDDOOR



# General Purpose M7, HSS End Mills

Weldon® offers a variety of general purpose and special application end mills that have been designed to ANSI specifications. These tools are made from a substrate that offers good abrasion resistance for wear and red hardness at higher milling temperatures than other high speed steels.



## M-7, HSS End Mills Index

Series		Page
B, BLF, BL, BMF	2 Flute Single End, M-7	62-63
BSF	2 Flute Single End, Plain Shank, M-7	64
SB	2 Flute Single End, Straight Flute, M-7	65
B-K	2 Flute Single End, Keyway Cutters, M-7	66
SKB	2 Flute Single End, Ski-Kut® Roughing, M-7	67
SKX	2 Flute Single End, Ski-Kut® Finishing, M-7	68
R, RL	2 Flute Ball, Single End, M-7	69
C, CL	3 Flute, Single End, M-7	70
ASF	4 Flute, Non-Center Cutting, Plain Shank, Single End, M-7	71
A, AL, AE, AEX	Multi-Flute, Non-Center Cuttings, Single End, M-7	72-73
AC	Multi-Flute, Center Cutting, Single End, M-7	74
RK	Multi-Flute Ball, Single End, M-7	75
	Aluminum and Non-Ferrous Technical	76
	Titanium and Ferrous Technical	77



# 2 Flute, Single End

# M-7, HSS



- Medium Hardness Materials
- Plunge and Ramp
- Pocket, Profile and Slot
- 30 Degree Right Hand Helix, Right Hand Cut
- Center Cutting
- Large Core for Rigidity
- Cutting Tolerance is  $\pm .003/- .000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	Length Below Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
B16-2	1/2	3/8		13/16	2-1/2	25302-00-W	25302-88-W	25302-89-W
B16-3	1/2	1/2		1	3	25304-00-W	25304-88-W	25304-89-W
BL16-3	1/2	1/2	2-1/4	1	4	25602-00-W	25602-88-W	25602-89-W
BMF16-3	1/2	1/2		1-1/2	3-1/2	25402-00-W	25402-88-W	25402-89-W
BLF16-3	1/2	1/2		2	4	25502-00-W	25502-88-W	25502-89-W
B18-3	9/16	1/2		1-1/8	3-1/8	25306-00-W	25306-88-W	25306-89-W
B20-3	5/8	1/2		1-1/8	3-1/8	25308-00-W	25308-88-W	25308-89-W
B20-4	5/8	5/8		1-5/16	3-7/16	25310-00-W	25310-88-W	25310-89-W
BL20-4	5/8	5/8	2-3/4	1-3/8	4-5/8	25604-00-W	25604-88-W	25604-89-W
BMF20-4	5/8	5/8		1-5/8	3-3/4	25404-00-W	25404-88-W	25404-89-W
BLF20-4	5/8	5/8		2	4-1/8	25504-00-W	25504-88-W	25504-89-W
B22-3	11/16	1/2		1-5/16	3-5/16	25312-00-W	25312-88-W	25312-89-W
B22-4	11/16	5/8		1-5/16	3-7/16	25314-00-W	25314-88-W	25314-89-W
B24-3	3/4	1/2		1-5/16	3-5/16	25316-00-W	25316-88-W	25316-89-W
B24-4	3/4	5/8		1-5/16	3-7/16	25318-00-W	25318-88-W	25318-89-W
B24-5	3/4	3/4		1-5/16	3-9/16	25320-00-W	25320-88-W	25320-89-W
BL24-5	3/4	3/4	3-3/8	1-5/8	5-3/8	25606-00-W	25606-88-W	25606-89-W
BMF24-5	3/4	3/4		1-3/4	4	25406-00-W	25406-88-W	25406-89-W
BLF24-5	3/4	3/4		2-1/4	4-1/2	25506-00-W	25506-88-W	25506-89-W
B26-4	13/16	5/8		1-1/2	3-5/8	25322-00-W	25322-88-W	25322-89-W
B28-4	7/8	5/8		1-1/2	3-5/8	25324-00-W	25324-88-W	25324-89-W
B28-5	7/8	3/4		1-1/2	3-3/4	25326-00-W	25326-88-W	25326-89-W
B28-6	7/8	7/8		1-1/2	3-3/4	25328-00-W	25328-88-W	25328-89-W
BMF28-6	7/8	7/8		2	4-1/4	25408-00-W	25408-88-W	25408-89-W
BL28-6	7/8	7/8	4	2	6	25608-00-W	25608-88-W	25608-89-W
BLF28-6	7/8	7/8		2-1/2	4-3/4	25508-00-W	25508-88-W	25508-89-W
B30-4	15/16	5/8		1-1/2	3-5/8	25330-00-W	25330-88-W	25330-89-W
B30-6	15/16	7/8		1-1/2	3-3/4	25332-00-W	25332-88-W	25332-89-W
B32-4	1	5/8		1-1/2	3-5/8	25334-00-W	25334-88-W	25334-89-W
B32-5	1	3/4		1-1/2	3-3/4	25336-00-W	25336-88-W	25336-89-W
B32-6	1	7/8		1-1/2	3-3/4	25338-00-W	25338-88-W	25338-89-W
B32-7	1	1		1-5/8	4-1/8	25340-00-W	25340-88-W	25340-89-W
BMF32-7	1	1		2-1/4	4-3/4	25410-00-W	25410-88-W	25410-89-W
BL32-7	1	1	5	2-1/2	7-1/4	25610-00-W	25610-88-W	25610-89-W
BLF32-7	1	1		3	5-1/2	25510-00-W	25510-88-W	25510-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



## 2 Flute, Single End (continued)

M-7, HSS



Part Number	Dia.	Shank	Length Below Shank	LOC	OAL	EDP	TIN EDP	TICN EDP
B36-6	1-1/8	7/8		1-5/8	3-7/8	25342-00-W	25342-88-W	25342-89-W
B36-7	1-1/8	1		1-5/8	4-1/8	25344-00-W	25344-88-W	25344-89-W
BMF36-7	1-1/8	1		2-1/4	4-3/4	25412-00-W	25412-88-W	25412-89-W
BLF36-7	1-1/8	1		3	5-1/2	25512-00-W	25512-88-W	25512-89-W
B40-6	1-1/4	7/8		1-5/8	3-7/8	25346-00-W	25346-88-W	25346-89-W
B40-7	1-1/4	1		1-5/8	4-1/8	25348-00-W	25348-88-W	25348-89-W
BMF40-7	1-1/4	1		2-1/4	4-3/4	25414-00-W	25414-88-W	25414-89-W
BLF40-7	1-1/4	1		3	5-1/2	25514-00-W	25514-88-W	25514-89-W
B40-8	1-1/4	1-1/4		1-5/8	4-1/8	25350-00-W	25350-88-W	25350-89-W
BMF40-8	1-1/4	1-1/4		2-1/4	4-3/4	25416-00-W	25416-88-W	25416-89-W
BLF40-8	1-1/4	1-1/4		3	5-1/2	25516-00-W	25516-88-W	25516-89-W
BL40-8	1-1/4	1-1/4	5	3	7-1/4	25612-00-W	25612-88-W	25612-89-W
B44-7	1-3/8	1		1-5/8	4-1/8	25352-00-W	25352-88-W	25352-89-W
BMF44-7	1-3/8	1		2-1/4	4-3/4	25418-00-W	25418-88-W	25418-89-W
BLF44-7	1-3/8	1		3	5-1/2	25518-00-W	25518-88-W	25518-89-W
B48-7	1-1/2	1		1-5/8	4-1/8	25354-00-W	25354-88-W	25354-89-W
B48-8	1-1/2	1-1/4		1-5/8	4-1/8	25356-00-W	25356-88-W	25356-89-W
BMF48-8	1-1/2	1-1/4		2-1/4	4-3/4	25420-00-W	25420-88-W	25420-89-W
BLF48-8	1-1/2	1-1/4		3	5-1/2	25520-00-W	25520-88-W	25520-89-W
B52-8	1-5/8	1-1/4		1-5/8	4-1/8	25358-00-W	25358-88-W	25358-89-W
BMF52-8	1-5/8	1-1/4		2-1/4	4-3/4	25422-00-W	25422-88-W	25422-89-W
BLF52-8	1-5/8	1-1/4		3	5-1/2	25522-00-W	25522-88-W	25522-89-W
B56-8	1-3/4	1-1/4		1-5/8	4-1/8	25360-00-W	25360-88-W	25360-89-W
BMF56-8	1-3/4	1-1/4		2-1/4	4-3/4	25424-00-W	25424-88-W	25424-89-W
BLF56-8	1-3/4	1-1/4		3	5-1/2	25524-00-W	25524-88-W	25524-89-W
B60-8	1-7/8	1-1/4		1-5/8	4-1/8	25362-00-W	25362-88-W	25362-89-W
BMF60-8	1-7/8	1-1/4		2-1/4	4-3/4	25426-00-W	25426-88-W	25426-89-W
BLF60-8	1-7/8	1-1/4		3	5-1/2	25526-00-W	25526-88-W	25526-89-W
B64-8	2	1-1/4		1-5/8	4-1/8	25364-00-W	25364-88-W	25364-89-W
BMF64-8	2	1-1/4		2-1/4	4-3/4	25428-00-W	25428-88-W	25428-89-W
BLF64-8	2	1-1/4		3	5-1/2	25528-00-W	25528-88-W	25528-89-W
B64-11B	2	2		2	5-3/4	25366-00-W	25366-88-W	25366-89-W
B64-11A	2	2		3	6-3/4	25368-00-W	25368-88-W	25368-89-W
B64-11	2	2		4	7-3/4	25370-00-W	25370-88-W	25370-89-W
B64-11D	2	2		6	9-3/4	25372-00-W	25372-88-W	25372-89-W
B72-8	2-1/4	1-1/4		1-5/8	4-1/8	25374-00-W		
BLF72-8	2-1/4	1-1/4		3	5-1/2	25530-00-W		
BLF80-8	2-1/2	1-1/4		3	5-1/2	25532-00-W		
B80-11	2-1/2	2		4	7-3/4	25376-00-W		
B80-11A	2-1/2	2		6	9-3/4	25378-00-W		
B96-12	3	2-1/2		4	7-3/4	25380-00-W		



# 2 Flute, Single End, Plain Shanks

M-7, HSS



- Shank Diameter Same as Flute Diameter
- Plain Shank, No Flats
- Plunge and Ramp
- Pocket, Profile and Slot
- Center Cutting
- Large Core for Rigidity
- Cutting Tolerance is  $+.000/-0.0015$
- 30 Degree Right Hand Helix, Right Hand Cut

Part Number	Dia.	Shank	LOC	OAL	EDP	TIN EDP	TICN EDP
BSF-8	1/4	1/4	3/8	1-7/16	25202-00-W	25202-88-W	25202-89-W
BSF-10	5/16	5/16	15/32	1-9/16	25204-00-W	25204-88-W	25204-89-W
BSF-12	3/8	3/8	9/16	1-5/8	25206-00-W	25206-88-W	25206-89-W
BSF-16	1/2	1/2	3/4	2-1/16	25208-00-W	25208-88-W	25208-89-W
BSF-20	5/8	5/8	15/16	2-5/16	25210-00-W	25210-88-W	25210-89-W
BSF-24	3/4	3/4	1-1/8	2-1/2	25212-00-W	25212-88-W	25212-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 2 Flute, Straight Flute, Single End

M-7, HSS



- Medium Hardness Materials
- Plunge, Slot and Ramp
- 30 Degree Right Hand Helix, Right Hand Cut
- Center Cutting
- Large Core for Rigidity
- Cutting Tolerance is  $+.000/-0.015$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
SB16-3	1/2	1/2	1	3	25702-00-W	25702-88-W	25702-89-W
SB20-4	5/8	5/8	1-5/16	3-7/16	25704-00-W	25704-88-W	25704-89-W
SB24-5	3/4	3/4	1-5/16	3-9/16	25706-00-W	25706-88-W	25706-89-W
SB28-6	7/8	7/8	1-1/2	3-3/4	25708-00-W	25708-88-W	25708-89-W
SB32-6	1	7/8	1-1/2	3-3/4	25710-00-W	25710-88-W	25710-89-W
SB36-6	1-1/8	7/8	1-5/8	3-7/8	25712-00-W	25712-88-W	25712-89-W
SB40-6	1-1/4	7/8	1-5/8	3-7/8	25714-00-W	25714-88-W	25714-89-W
SB40-8	1-1/4	1-1/4	1-5/8	4-1/8	25716-00-W	25716-88-W	25716-89-W
SB48-8	1-1/2	1-1/4	1-5/8	4-1/8	25718-00-W	25718-88-W	25718-89-W

# 2 Flute, Keyway Cutters, Single End

## M-7, HSS



- Medium Hardness Materials
- Plunge and Ramp
- Keyway, Slot and Pocket
- 30 Degree Right Hand Helix, Right Hand Cut
- Center Cutting
- Large Core for Rigidity
- Cutting Tolerance is  $\pm .0000/- .0015$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	EDP	TIN EDP	TICN EDP
B16-3K	1/2	1/2	1	3	25902-00-W	25902-88-W	25902-89-W
B20-4K	5/8	5/8	1-5/16	3-7/16	25904-00-W	25904-88-W	25904-89-W
B24-5K	3/4	3/4	1-5/16	3-9/16	25906-00-W	25906-88-W	25906-89-W
B28-6K	7/8	7/8	1-1/2	3-3/4	25908-00-W	25908-88-W	25908-89-W
B32-7K	1	1	1-5/8	4-1/8	25910-00-W	25910-88-W	25910-89-W
B40-8K	1-1/4	1-1/4	1-5/8	4-1/8	25912-00-W	25912-88-W	25912-89-W
B48-8K	1-1/2	1-1/4	1-5/8	4-1/8	25914-00-W	25914-88-W	25914-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Ski-Kut® 2 Flute Single End, for Roughing Aluminum

## M-7, HSS



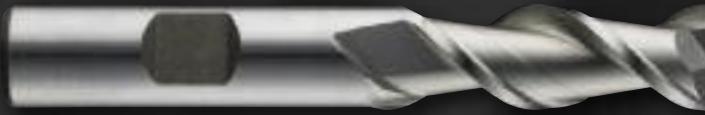
- Machining Aluminum, Copper, Zinc, ect.
- Design for Heavier Stock Removal
- Less Vibration and Chatter
- Greater Feed Rates
- Center Cutting
- 45 Degree Right Hand Helix, Right Hand Cut
- Better Chip Evacuation
- Cutting Diameter Tolerance is  $+.003/-0.000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
SKB8-2	1/4	3/8	5/8	2-7/16	57010-00-W	57010-88-W	57010-89-W
SKB8-2A	1/4	3/8	1-1/4	3-1/16	57012-00-W	57012-88-W	57012-89-W
SKB8-2B	1/4	3/8	1-3/4	3-9/16	57014-00-W	57014-88-W	57014-89-W
SKB10-2	5/16	3/8	3/4	2-1/2	57020-00-W	57020-88-W	57020-89-W
SKB10-2A	5/16	3/8	1-3/8	3-3/16	57022-00-W	57022-88-W	57022-89-W
SKB10-2B	5/16	3/8	2	3-3/4	57024-00-W	57024-88-W	57024-89-W
SKB12-2	3/8	3/8	3/4	2-1/2	57030-00-W	57030-88-W	57030-89-W
SKB12-2A	3/8	3/8	1-1/2	3-1/4	57032-00-W	57032-88-W	57032-89-W
SKB12-2B	3/8	3/8	2-1/2	4-1/4	57034-00-W	57034-88-W	57034-89-W
SKB14-2	7/16	3/8	1	2-11/16	57040-00-W	57040-88-W	57040-89-W
SKB14-3A	7/16	1/2	1-3/4	3-3/4	57042-00-W	57042-88-W	57042-89-W
SKB14-3B	7/16	1/2	2-3/4	4-3/4	57044-00-W	57044-88-W	57044-89-W
SKB16-3	1/2	1/2	1-1/4	3-1/4	57050-00-W	57050-88-W	57050-89-W
SKB16-3A	1/2	1/2	2	4	57052-00-W	57052-88-W	57052-89-W
SKB16-3B	1/2	1/2	3	5	57054-00-W	57054-88-W	57054-89-W
SKB20-4	5/8	5/8	1-5/8	3-3/4	57060-00-W	57060-88-W	57060-89-W
SKB20-4A	5/8	5/8	2-1/2	4-5/8	57062-00-W	57062-88-W	57062-89-W
SKB20-4C	5/8	5/8	4	6-1/8	57064-00-W	57064-88-W	57064-89-W
SKB24-5	3/4	3/4	1-5/8	3-7/8	57070-00-W	57070-88-W	57070-89-W
SKB24-5B	3/4	3/4	3	5-1/4	57072-00-W	57072-88-W	57072-89-W
SKB24-5D	3/4	3/4	4	6-1/4	57074-00-W	57074-88-W	57074-89-W
SKB28-6	7/8	7/8	1-7/8	4-1/8	57080-00-W	57080-88-W	57080-89-W
SKB28-6B	7/8	7/8	3-1/2	5-3/4	57082-00-W	57082-88-W	57082-89-W
SKB28-6D	7/8	7/8	5	7-1/4	57084-00-W	57084-88-W	57084-89-W
SKB32-7	1	1	2	4-1/2	57090-00-W	57090-88-W	57090-89-W
SKB32-7A	1	1	3	5-1/2	57092-00-W	57092-88-W	57092-89-W
SKB32-7B	1	1	4	6-1/2	57094-00-W	57094-88-W	57094-89-W
SKB32-7D	1	1	6	8-1/2	57096-00-W	57096-88-W	57096-89-W
SKB40-8	1-1/4	1-1/4	2	4-1/2	57110-00-W	57110-88-W	57110-89-W
SKB40-8A	1-1/4	1-1/4	3	5-1/2	57112-00-W	57112-88-W	57112-89-W
SKB40-8B	1-1/4	1-1/4	4	6-1/2	57114-00-W	57114-88-W	57114-89-W
SKB40-8D	1-1/4	1-1/4	6	8-1/2	57116-00-W	57116-88-W	57116-89-W
SKB48-8	1-1/2	1-1/4	2	4-1/2	57120-00-W	57120-88-W	57120-89-W
SKB48-8A	1-1/2	1-1/4	3	5-1/2	57122-00-W	57122-88-W	57122-89-W
SKB48-8B	1-1/2	1-1/4	4	6-1/2	57124-00-W	57124-88-W	57124-89-W
SKB48-8D	1-1/2	1-1/4	6	8-1/2	57126-00-W	57126-88-W	57126-89-W
SKB56-8	1-3/4	1-1/4	2	4-1/2	57130-00-W	57130-88-W	57130-89-W
SKB56-8B	1-3/4	1-1/4	4	6-1/2	57132-00-W	57132-88-W	57132-89-W
SKB64-8	2	1-1/4	2	4-1/2	57140-00-W	57140-88-W	57140-89-W
SKB64-8B	2	1-1/4	4	6-1/2	57142-00-W	57142-88-W	57142-89-W



# Ski-Kut® 2 Flute Single End, for Finishing Aluminum

## M-7, HSS



- Machining Aluminum, Copper, Zinc, ect.
- Design for Finishing
- Less Vibration and Chatter
- Superior Work Piece Finish
- Center Cutting
- 45 Degree Right Hand Helix, Right Hand Cut
- Better Chip Evacuation
- Cutting Diameter Tolerance is  $\pm .003/- .000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	EDP	TIN EDP	TICN EDP
SKX8-2	1/4	3/8	5/8	2-7/16	57202-00-W	57202-88-W	57202-89-W
SKX8-2A	1/4	3/8	1-1/4	3-1/16	57204-00-W	57204-88-W	57204-89-W
SKX8-2B	1/4	3/8	1-3/4	3-9/16	57206-00-W	57206-88-W	57206-89-W
SKX10-2	5/16	3/8	3/4	2-1/2	57208-00-W	57208-88-W	57208-89-W
SKX10-2A	5/16	3/8	1-3/8	3-3/16	57210-00-W	57210-88-W	57210-89-W
SKX10-2B	5/16	3/8	2	3-3/4	57212-00-W	57212-88-W	57212-89-W
SKX12-2	3/8	3/8	3/4	2-1/2	57214-00-W	57214-88-W	57214-89-W
SKX12-2A	3/8	3/8	1-1/2	3-1/4	57216-00-W	57216-88-W	57216-89-W
SKX12-2B	3/8	3/8	2-1/2	4-1/4	57218-00-W	57218-88-W	57218-89-W
SKX14-2	7/16	3/8	1	2-11/16	57220-00-W	57220-88-W	57220-89-W
SKX14-3A	7/16	1/2	1-3/4	3-3/4	57222-00-W	57222-88-W	57222-89-W
SKX14-3B	7/16	1/2	2-3/4	4-3/4	57224-00-W	57224-88-W	57224-89-W
SKX16-3	1/2	1/2	1-1/4	3-1/4	57226-00-W	57226-88-W	57226-89-W
SKX16-3A	1/2	1/2	2	4	57228-00-W	57228-88-W	57228-89-W
SKX16-3B	1/2	1/2	3	5	57230-00-W	57230-88-W	57230-89-W
SKX20-4	5/8	5/8	1-5/8	3-3/4	57232-00-W	57232-88-W	57232-89-W
SKX20-4A	5/8	5/8	2-1/2	4-5/8	57234-00-W	57234-88-W	57234-89-W
SKX20-4C	5/8	5/8	4	6-1/8	57324-00-W	57324-88-W	57324-89-W
SKX24-5	3/4	3/4	1-5/8	3-7/8	57238-00-W	57238-88-W	57238-89-W
SKX24-5B	3/4	3/4	3	5-1/4	57240-00-W	57240-88-W	57240-89-W
SKX24-5D	3/4	3/4	4	6-1/4	57242-00-W	57242-88-W	57242-89-W
SKX28-6	7/8	7/8	1-7/8	4-1/8	57244-00-W	57244-88-W	57244-89-W
SKX28-6B	7/8	7/8	3-1/2	5-3/4	57246-00-W	57246-88-W	57246-89-W
SKX28-6D	7/8	7/8	5	7-1/4	57248-00-W	57248-88-W	57248-89-W
SKX32-7	1	1	2	4-1/2	57250-00-W	57250-88-W	57250-89-W
SKX32-7A	1	1	3	5-1/2	57252-00-W	57252-88-W	57252-89-W
SKX32-7B	1	1	4	6-1/2	57254-00-W	57254-88-W	57254-89-W
SKX32-7D	1	1	6	8-1/2	57256-00-W	57256-88-W	57256-89-W
SKX40-8	1-1/4	1-1/4	2	4-1/2	57258-00-W	57258-88-W	57258-89-W
SKX40-8A	1-1/4	1-1/4	3	5-1/2	57260-00-W	57260-88-W	57260-89-W
SKX40-8B	1-1/4	1-1/4	4	6-1/2	57262-00-W	57262-88-W	57262-89-W
SKX40-8D	1-1/4	1-1/4	6	8-1/2	57264-00-W	57264-88-W	57264-89-W
SKX48-8	1-1/2	1-1/4	2	4-1/2	57266-00-W	57266-88-W	57266-89-W
SKX48-8A	1-1/2	1-1/4	3	5-1/2	57268-00-W	57268-88-W	57268-89-W
SKX48-8B	1-1/2	1-1/4	4	6-1/2	57270-00-W	57270-88-W	57270-89-W
SKX48-8D	1-1/2	1-1/4	6	8-1/2	57272-00-W	57272-88-W	57272-89-W
SKX56-8	1-3/4	1-1/4	2	4-1/2	57274-00-W	57274-88-W	57274-89-W
SKX56-8B	1-3/4	1-1/4	4	6-1/2	57276-00-W	57276-88-W	57276-89-W
SKX64-8	2	1-1/4	2	4-1/2	57278-00-W	57278-88-W	57278-89-W
SKX64-8B	2	1-1/4	4	6-1/2	57280-00-W	57280-88-W	57280-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 2 Flute Ball, Single End

M-7, HSS



- Medium Hardness Materials
- Plunge and Ramp
- Profile, Slot and Pocket
- 30 Degree Right Hand Helix, Right Hand Cut
- Center Cutting
- Large Core for Rigidity
- Cutting Diameter Tolerance is  $\pm .003/- .000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	Length Below Shank	LOC	OAL	EDP	TIN EDP	TICN EDP
R14-3	7/16	1/2		1	3	27040-00-W	27040-88-W	27040-89-W
RL14-3	7/16	1/2	1-7/8	1	3-11/16	27140-00-W	27140-88-W	27140-89-W
R16-3	1/2	1/2		1	3	27042-00-W	27042-88-W	27042-89-W
RL16-3	1/2	1/2	2-1/4	1	4	27142-00-W	27142-88-W	27142-89-W
R18-3	9/16	1/2		1	3	27044-00-W	27044-88-W	27044-89-W
R20-3	5/8	1/2		1-3/8	3-3/8	27046-00-W	27046-88-W	27046-89-W
R20-4	5/8	5/8		1-3/8	3-1/2	27048-00-W	27048-88-W	27048-89-W
RL20-4	5/8	5/8	2-3/4	1-3/8	4-5/8	27144-00-W	27144-88-W	27144-89-W
R24-3	3/4	1/2		1-5/8	3-5/8	27050-00-W	27050-88-W	27050-89-W
R24-5	3/4	3/4		1-5/8	3-7/8	27052-00-W	27052-88-W	27052-89-W
RL24-5	3/4	3/4	3-3/8	1-5/8	5-3/8	27146-00-W	27146-88-W	27146-89-W
R26-5	13/16	3/4		2	4-1/4	27054-00-W	27054-88-W	27054-89-W
R28-5	7/8	3/4		2	4-1/4	27056-00-W	27056-88-W	27056-89-W
R28-6	7/8	7/8		2	4-1/4	27058-00-W	27058-88-W	27058-89-W
RL28-6	7/8	7/8	4	2	6	27148-00-W	27148-88-W	27148-89-W
R30-5	15/16	3/4		2-1/4	4-1/2	27060-00-W	27060-88-W	27060-89-W
R32-5	1	3/4		2-1/4	4-1/2	27062-00-W	27062-88-W	27062-89-W
R32-7	1	1		2-1/4	4-3/4	27064-00-W	27064-88-W	27064-89-W
RL32-7	1	1	5	2-1/2	7-1/4	27150-00-W	27150-88-W	27150-89-W
R36-7	1-1/8	1		2-1/4	4-3/4	27066-00-W	27066-88-W	27066-89-W
R40-8	1-1/4	1-1/4		2-1/2	5	27068-00-W	27068-88-W	27068-89-W
RL40-8	1-1/4	1-1/4	5	3	7-1/4	27152-00-W	27152-88-W	27152-89-W
R44-8	1-3/8	1		2-1/2	5	27070-00-W	27070-88-W	27070-89-W
R48-8	1-1/2	1-1/4		2-1/2	5	27072-00-W	27072-88-W	27072-89-W
R64-11	2	2		5	8-3/4	47188-00-W	47188-88-W	47188-89-W
R80-11	2-1/2	2		5	8-3/4	47190-00-W	47190-88-W	47190-89-W

# 3 Flute, Single End

# M-7, HSS



- Medium Hardness Materials
- Plunge and Ramp
- Profile, Slot and Pocket
- 30 Degree Right Hand Helix, Right Hand Cut
- Center Cutting
- Large Core for Rigidity
- Cutting Diameter Tolerance is +.003/- .000
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	EDP	TIN EDP	TICN EDP
CL14-3	7/16	1/2	1-3/4	3-3/4	31120-00-W	31120-88-W	31120-89-W
C16-2	1/2	3/8	1	2-11/16	31020-00-W	31020-88-W	31020-89-W
C16-3	1/2	1/2	1-1/4	3-1/4	31022-00-W	31022-88-W	31022-89-W
CL16-3	1/2	1/2	2	4	31122-00-W	31122-88-W	31122-89-W
C18-3	9/16	1/2	1-3/8	3-3/8	31024-00-W	31024-88-W	31024-89-W
C20-3	5/8	1/2	1-3/8	3-3/8	31026-00-W	31026-88-W	31026-89-W
C20-4	5/8	5/8	1-5/8	3-3/4	31028-00-W	31028-88-W	31028-89-W
CL20-4	5/8	5/8	2-1/2	4-5/8	31124-00-W	31124-88-W	31124-89-W
C24-3	3/4	1/2	1-5/8	3-5/8	31030-00-W	31030-88-W	31030-89-W
C24-4	3/4	5/8	1-5/8	3-3/4	31032-00-W	31032-88-W	31032-89-W
C24-5	3/4	3/4	1-5/8	3-7/8	31034-00-W	31034-88-W	31034-89-W
CL24-5	3/4	3/4	3	5-1/4	31126-00-W	31126-88-W	31126-89-W
C28-4	7/8	5/8	1-7/8	4	31036-00-W	31036-88-W	31036-89-W
C28-5	7/8	3/4	1-7/8	4-1/8	31038-00-W	31038-88-W	31038-89-W
C28-6	7/8	7/8	1-7/8	4-1/8	31040-00-W	31040-88-W	31040-89-W
CL28-6	7/8	7/8	3-1/2	5-3/4	31128-00-W	31128-88-W	31128-89-W
C32-4	1	5/8	1-7/8	4	31042-00-W	31042-88-W	31042-89-W
C32-5	1	3/4	1-7/8	4-1/8	31044-00-W	31044-88-W	31044-89-W
C32-6	1	7/8	1-7/8	4-1/8	31046-00-W	31046-88-W	31046-89-W
C32-7	1	1	2	4-1/2	31048-00-W	31048-88-W	31048-89-W
CL32-7	1	1	4	6-1/2	31130-00-W	31130-88-W	31130-89-W
C36-7	1-1/8	1	2	4-1/2	31050-00-W	31050-88-W	31050-89-W
C40-7	1-1/4	1	2	4-1/2	31052-00-W	31052-88-W	31052-89-W
C40-8	1-1/4	1-1/4	2	4-1/2	31054-00-W	31054-88-W	31054-89-W
CL40-8	1-1/4	1-1/4	4	6-1/2	31132-00-W	31132-88-W	31132-89-W
C48-7	1-1/2	1	2	4-1/2	31056-00-W	31056-88-W	31056-89-W
C48-8	1-1/2	1-1/4	2	4-1/2	31058-00-W	31058-88-W	31058-89-W
CL48-8	1-1/2	1-1/4	4	6-1/2	31134-00-W	31134-88-W	31134-89-W
C56-8	1-3/4	1-1/4	2	4-1/2	31060-00-W	31060-88-W	31060-89-W
CL56-8	1-3/4	1-1/4	4	6-1/2	31136-00-W	31136-88-W	31136-89-W
C64-8	2	1-1/4	2	4-1/2	31062-00-W	31062-88-W	31062-89-W
CL64-8	2	1-1/4	4	6-1/2	31138-00-W	31138-88-W	31138-89-W
C64-11B	2	2	2	5-3/4	31064-00-W	31064-88-W	31064-89-W
C64-11A	2	2	3	6-3/4	31066-00-W	31066-88-W	31066-89-W
C64-11	2	2	4	7-3/4	31068-00-W	31068-88-W	31068-89-W
CL64-11	2	2	6	9-3/4	31140-00-W	31140-88-W	31140-89-W
C80-11	2-1/2	2	4	7-3/4	31070-00-W		
CL80-11	2-1/2	2	6	9-3/4	31142-00-W		
CL80-11A	2-1/2	2	8	11-3/4	31144-00-W		
C80-12B	2-1/2	2-1/2	8	12	31072-00-W		
C96-12	3	2-1/2	4	7-3/4	31074-00-W		
CL96-14A	3	2-1/2	6	9-3/4	31146-00-W		
CL96-14B	3	2-1/2	8	11-3/4	31148-00-W		

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 4 Flute, Single End, Plain Shanks, Non-Center Cutting

M-7, HSS



- Medium Hardness Materials
- Will Not Plunge
- Shank Diameter Same as Flute Diameter
- 30 Degree Right Hand Helix, Right Hand Cut
- Plain Shank, No Flats
- Large Core for Rigidity
- Cutting Diameter Tolerance is  $+.003/-0.000$

Part Number	Dia.	Shank	LOC	OAL	TiN EDP	TiCN EDP	EDP
ASF4	1/8	1/8	5/16	1-1/4	41410-00-W	41410-88-W	41410-89-W
ASF5	5/32	5/32	5/16	1-1/4	41412-00-W	41412-88-W	41412-89-W
ASF6	3/16	3/16	1/2	1-3/8	41414-00-W	41414-88-W	41414-89-W
ASF7	7/32	7/32	9/16	1-5/8	41416-00-W	41416-88-W	41416-89-W
ASF8	1/4	1/4	5/8	1-11/16	41418-00-W	41418-88-W	41418-89-W
ASF10	5/16	5/16	11/16	1-3/4	41420-00-W	41420-88-W	41420-89-W
ASF12	3/8	3/8	3/4	1-13/16	41422-00-W	41422-88-W	41422-89-W
ASF14	7/16	7/16	7/8	2-3/16	41424-00-W	41424-88-W	41424-89-W
ASF16	1/2	1/2	15/16	2-1/4	41426-00-W	41426-88-W	41426-89-W
ASF18	9/16	9/16	1	2-5/16	41428-00-W	41428-88-W	41428-89-W
ASF20	5/8	5/8	1-1/8	2-1/2	41430-00-W	41430-88-W	41430-89-W
ASF24	3/4	3/4	1-1/4	2-5/8	41432-00-W	41432-88-W	41432-89-W



# Multi-Flute, Non-Center Cutting, Single End

## M-7, HSS



- Medium Hardness Materials
- Will Not Plunge
- Profile, Open-Ended Slot
- Large Core for Rigidity
- 30 Degree Right Hand Helix, Right Hand Cut
- Cutting Diameter Tolerance is  $\pm .003/- .000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TiN EDP	TiCN EDP
AL14-3	7/16	1/2	1-3/4	3-3/4	4	41730-00-W	41730-88-W	41730-89-W
A16-2	1/2	3/8	1	2-11/16	4	41530-00-W	41530-88-W	41530-89-W
A16-3	1/2	1/2	1-1/4	3-1/4	4	41532-00-W	41532-88-W	41532-89-W
AL16-3	1/2	1/2	2	4	4	41732-00-W	41732-88-W	41732-89-W
AE16-3	1/2	1/2	3	5	4	41830-00-W	41830-88-W	41830-89-W
A18-3	9/16	1/2	1-3/8	3-3/8	4	41534-00-W	41534-88-W	41534-89-W
A20-3	5/8	1/2	1-3/8	3-3/8	4	41536-00-W	41536-88-W	41536-89-W
A20-4	5/8	5/8	1-5/8	3-3/4	4	41538-00-W	41538-88-W	41538-89-W
AL20-4	5/8	5/8	2-1/2	4-5/8	4	41734-00-W	41734-88-W	41734-89-W
AE20-4	5/8	5/8	4	6-1/8	4	41832-00-W	41832-88-W	41832-89-W
A22-3	11/16	1/2	1-5/8	3-5/8	4	41540-00-W	41540-88-W	41540-89-W
A22-4	11/16	5/8	1-5/8	3-3/4	4	41542-00-W	41542-88-W	41542-89-W
A24-3	3/4	1/2	1-5/8	3-5/8	4	41544-00-W	41544-88-W	41544-89-W
A24-4	3/4	5/8	1-5/8	3-3/4	4	41546-00-W	41546-88-W	41546-89-W
A24-5	3/4	3/4	1-5/8	3-7/8	4	41548-00-W	41548-88-W	41548-89-W
AL24-5	3/4	3/4	3	5-1/4	4	41736-00-W	41736-88-W	41736-89-W
AE24-5	3/4	3/4	4	6-1/4	4	41834-00-W	41834-88-W	41834-89-W
A26-4	13/16	5/8	1-7/8	4	6	41930-00-W	41930-88-W	41930-89-W
A28-4	7/8	5/8	1-7/8	4	6	41932-00-W	41932-88-W	41932-89-W
A28-5	7/8	3/4	1-7/8	4-1/8	4	41550-00-W	41550-88-W	41550-89-W
A28-6	7/8	7/8	1-7/8	4-1/8	4	41552-00-W	41552-88-W	41552-89-W
AL28-6	7/8	7/8	3-1/2	5-3/4	4	41738-00-W	41738-88-W	41738-89-W
AE28-6	7/8	7/8	5	7-1/4	4	41836-00-W	41836-88-W	41836-89-W
A30-4	15/16	5/8	1-7/8	4	6	41934-00-W	41934-88-W	41934-89-W
A30-6	15/16	7/8	1-7/8	4-1/8	4	41554-00-W	41554-88-W	41554-89-W
A32-4	1	5/8	1-7/8	4	6	41936-00-W	41936-88-W	41936-89-W
A32-5	1	3/4	1-7/8	4-1/8	4	41556-00-W	41556-88-W	41556-89-W
A32-6	1	7/8	1-7/8	4-1/8	4	41558-00-W	41558-88-W	41558-89-W
A32-7	1	1	2	4-1/2	4	41560-00-W	41560-88-W	41560-89-W
AM32-7	1	1	3	5-1/2	4	41630-00-W	41630-88-W	41630-89-W
AL32-7	1	1	4	6-1/2	4	41740-00-W	41740-88-W	41740-89-W
AE32-7	1	1	6	8-1/2	4	41838-00-W	41838-88-W	41838-89-W
A36-6	1-1/8	7/8	2	4-1/4	6	41938-00-W	41938-88-W	41938-89-W
A36-7	1-1/8	1	2	4-1/2	6	41940-00-W	41940-88-W	41940-89-W
AL36-7	1-1/8	1	4	6-1/2	6	42110-00-W	42110-88-W	42110-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Multi-Flute, Non-Center Cutting, Single End (continued)

## M-7, HSS

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TIN EDP	TICN EDP
A40-6	1-1/4	7/8	2	4-1/4	6	41942-00-W	41942-88-W	41942-89-W
A40-7	1-1/4	1	2	4-1/2	6	41944-00-W	41944-88-W	41944-89-W
AL40-7	1-1/4	1	4	6-1/2	6	42112-00-W	42112-88-W	42112-89-W
A40-8A	1-1/4	1-1/4	2	4-1/2	4	41562-00-W	41562-88-W	41562-89-W
A40-8	1-1/4	1-1/4	2	4-1/2	6	41946-00-W	41946-88-W	41946-89-W
AM40-8	1-1/4	1-1/4	3	5-1/2	4	41632-00-W	41632-88-W	41632-89-W
AL40-8A	1-1/4	1-1/4	4	6-1/2	4	41742-00-W	41742-88-W	41742-89-W
AL40-8	1-1/4	1-1/4	4	6-1/2	6	42114-00-W	42114-88-W	42114-89-W
AE40-8	1-1/4	1-1/4	6	8-1/2	6	42210-00-W	42210-88-W	42210-89-W
A44-7	1-3/8	1	2	4-1/2	6	41948-00-W	41948-88-W	41948-89-W
AL44-7	1-3/8	1	4	6-1/2	6	42116-00-W	42116-88-W	42116-89-W
A48-7	1-1/2	1	2	4-1/2	6	41950-00-W	41950-88-W	41950-89-W
AL48-7	1-1/2	1	4	6-1/2	6	42118-00-W	42118-88-W	42118-89-W
A48-8A	1-1/2	1-1/4	2	4-1/2	4	41564-00-W	41564-88-W	41564-89-W
A48-8	1-1/2	1-1/4	2	4-1/2	6	41952-00-W	41952-88-W	41952-89-W
AM48-8	1-1/2	1-1/4	3	5-1/2	4	41634-00-W	41634-88-W	41634-89-W
AL48-8A	1-1/2	1-1/4	4	6-1/2	4	41744-00-W	41744-88-W	41744-89-W
AL48-8	1-1/2	1-1/4	4	6-1/2	6	42120-00-W	42120-88-W	42120-89-W
ALX48-8	1-1/2	1-1/4	6	8-1/2	6	42122-00-W	42122-88-W	42122-89-W
AE48-8	1-1/2	1-1/4	8	10-1/2	6	42212-00-W	42212-88-W	42212-89-W
A52-8	1-5/8	1-1/4	2	4-1/2	6	41954-00-W	41954-88-W	41954-89-W
A56-8	1-3/4	1-1/4	2	4-1/2	6	41956-00-W	41956-88-W	41956-89-W
AM56-8	1-3/4	1-1/4	3	5-1/2	6	42030-00-W	42030-88-W	42030-89-W
AL56-8	1-3/4	1-1/4	4	6-1/2	6	42124-00-W	42124-88-W	42124-89-W
A60-8	1-7/8	1-1/4	2	4-1/2	6	41958-00-W	41958-88-W	41958-89-W
A64-8	2	1-1/4	2	4-1/2	6	41960-00-W	41960-88-W	41960-89-W
A64-8A	2	1-1/4	2	4-1/2	8	42340-00-W	42340-88-W	42340-89-W
AM64-8	2	1-1/4	3	5-1/2	6	42032-00-W	42032-88-W	42032-89-W
AL64-8	2	1-1/4	4	6-1/2	6	42126-00-W	42126-88-W	42126-89-W
AL64-8A	2	1-1/4	4	6-1/2	8	42342-00-W	42342-88-W	42342-89-W
A64-11D	2	2	2	5-3/4	4	41566-00-W	41566-88-W	41566-89-W
A64-11E	2	2	2	5-3/4	6	41962-00-W	41962-88-W	41962-89-W
A64-11	2	2	4	7-3/4	4	41568-00-W	41568-88-W	41568-89-W
A64-11A	2	2	4	7-3/4	6	41964-00-W	41964-88-W	41964-89-W
AL64-11A	2	2	6	9-3/4	4	41746-00-W	41746-88-W	41746-89-W
AL64-11	2	2	6	9-3/4	6	42128-00-W	42128-88-W	42128-89-W
AE64-11	2	2	8	11-3/4	6	42214-00-W	42214-88-W	42214-89-W
AEX64-11	2	2	10	13-3/4	6	42216-00-W		
A72-8	2-1/4	1-1/4	2	4-1/2	6	41966-00-W		
A80-8	2-1/2	1-1/4	3	5-1/2	8	42344-00-W		
A80-11A	2-1/2	2	4	7-3/4	4	41570-00-W		
A80-11	2-1/2	2	4	7-3/4	6	41968-00-W		
AL80-11A	2-1/2	2	6	9-3/4	4	41748-00-W		
AL80-11	2-1/2	2	6	9-3/4	6	42130-00-W		
AE80-11	2-1/2	2	8	11-3/4	6	42218-00-W		
A80-12	2-1/2	2-1/2	4	8	6	41970-00-W		
A80-12A	2-1/2	2-1/2	6	10	6	41972-00-W		
A80-12B	2-1/2	2-1/2	8	12	6	41974-00-W		
A80-12C	2-1/2	2-1/2	10	14	6	41976-00-W		
A80-12D	2-1/2	2-1/2	12	16	6	41978-00-W		
A96-12	3	2-1/2	4	7-3/4	8	42346-00-W		
AY96-14A	3	2-1/2	6	9-3/4	6	42220-00-W		
A96-12A	3	2-1/2	6	9-3/4	8	42348-00-W		
AY96-14B	3	2-1/2	8	11-3/4	6	42222-00-W		
A96-12B	3	2-1/2	8	11-3/4	8	42352-00-W		
AY96-14C	3	2-1/2	10	13-3/4	6	42224-00-W		
A96-12C	3	2-1/2	10	13-3/4	8	42354-00-W		
AY96-14D	3	2-1/2	12	15-3/4	6	42226-00-W		
A96-12D	3	2-1/2	12	15-3/4	8	42356-00-W		

# Multi-Flute, Center Cutting, Single End

## M-7, HSS



- Medium Hardness Materials
- 30 Degree Right Hand Helix, Right Hand Cut
- Plunge and Ramp
- Large Core for Rigidity
- Pocket, Profile and Slot
- Cutting Diameter Tolerance is  $\pm .003/- .000$
- Center Cutting
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TiN EDP	TiCN EDP
AC16-3	1/2	1/2	1-1/4	3-1/4	4	42640-00-W	42640-88-W	42640-89-W
AC16-3A	1/2	1/2	2	4	4	42840-00-W	42840-88-W	42840-89-W
AC16-3B	1/2	1/2	3	5	4	42940-00-W	42940-88-W	42940-89-W
AC20-4	5/8	5/8	1-5/8	3-3/4	4	42642-00-W	42642-88-W	42642-89-W
AC20-4A	5/8	5/8	2-1/2	4-5/8	4	42842-00-W	42842-88-W	42842-89-W
AC20-4B	5/8	5/8	4	6-1/8	4	42942-00-W	42942-88-W	42942-89-W
AC22-4	11/16	5/8	1-5/8	3-3/4	4	42644-00-W	42644-88-W	42644-89-W
AC24-5	3/4	3/4	1-5/8	3-7/8	4	42646-00-W	42646-88-W	42646-89-W
AC24-5A	3/4	3/4	3	5-1/4	4	42844-00-W	42844-88-W	42844-89-W
AC24-5B	3/4	3/4	4	6-1/4	4	42944-00-W	42944-88-W	42944-89-W
AC28-6	7/8	7/8	1-7/8	4-1/8	4	42648-00-W	42648-88-W	42648-89-W
AC28-6A	7/8	7/8	3-1/2	5-3/4	4	42846-00-W	42846-88-W	42846-89-W
AC28-6B	7/8	7/8	5	7-1/4	4	42946-00-W	42946-88-W	42946-89-W
AC32-7	1	1	2	4-1/2	4	42650-00-W	42650-88-W	42650-89-W
AC32-7C	1	1	3	5-1/2	4	42740-00-W	42740-88-W	42740-89-W
AC32-7A	1	1	4	6-1/2	4	42848-00-W	42848-88-W	42848-89-W
AC32-7B	1	1	6	8-1/2	4	42948-00-W	42948-88-W	42948-89-W
AC36-7	1-1/8	1	2	4-1/2	6	42652-00-W	42652-88-W	42652-89-W
AC40-8	1-1/4	1-1/4	2	4-1/2	4	42654-00-W	42654-88-W	42654-89-W
AC40-8C	1-1/4	1-1/4	3	5-1/2	4	42742-00-W	42742-88-W	42742-89-W
AC40-8A	1-1/4	1-1/4	4	6-1/2	4	42850-00-W	42850-88-W	42850-89-W
AC40-8B	1-1/4	1-1/4	6	8-1/2	4	42950-00-W	42950-88-W	42950-89-W
AC48-8	1-1/2	1-1/4	2	4-1/2	4	42656-00-W	42656-88-W	42656-89-W
AC48-8A	1-1/2	1-1/4	4	6-1/2	4	42852-00-W	42852-88-W	42852-89-W
AC48-8B	1-1/2	1-1/4	8	10-1/2	4	42952-00-W	42952-88-W	42952-89-W
AC56-8	1-3/4	1-1/4	2	4-1/2	4	42658-00-W	42658-88-W	42658-89-W
AC56-8A	1-3/4	1-1/4	4	6-1/2	4	42854-00-W	42854-88-W	42854-89-W
AC64-8	2	1-1/4	2	4-1/2	4	42660-00-W	42660-88-W	42660-89-W
AC64-8A	2	1-1/4	4	6-1/2	4	42856-00-W	42856-88-W	42856-89-W
AC64-11A	2	2	3	6-3/4	4	42744-00-W	42744-88-W	42744-89-W
AC96-14A	3	2-1/2	6	9-3/4	4	42954-00-W		
AC96-14B	3	2-1/2	8	11-3/4	4	42956-00-W		
AC96-14C	3	2-1/2	10	13-3/4	4	42958-00-W		
AC96-14D	3	2-1/2	12	15-3/4	4	42960-00-W		

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Multi-Flute Ball, Single End

# M-7, HSS



- Medium Hardness Materials
- Plunge and Ramp
- Pocket, Profile and Slot
- Center Cutting
- 30 Degree Right Hand Helix, Right Hand Cut
- Large Core for Rigidity
- Cutting Diameter Tolerance is  $\pm .003/-.000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TIN EDP	TICN EDP
RK16-3	1/2	1/2	1	3	4	47130-00-W	47130-88-W	47130-89-W
RK16-3A	1/2	1/2	1-1/2	3-1/2	4	47132-00-W	47132-88-W	47132-89-W
RK16-3B	1/2	1/2	2	4	4	47134-00-W	47134-88-W	47134-89-W
RK16-3C	1/2	1/2	2-1/2	4-1/2	4	47136-00-W	47136-88-W	47136-89-W
RK16-3D	1/2	1/2	3	5	4	47138-00-W	47138-88-W	47138-89-W
RK20-4	5/8	5/8	1-1/4	3-3/8	4	47140-00-W	47140-88-W	47140-89-W
RK20-4A	5/8	5/8	1-3/4	3-7/8	4	47142-00-W	47142-88-W	47142-89-W
RK20-4B	5/8	5/8	2-1/2	4-5/8	4	47144-00-W	47144-88-W	47144-89-W
RK20-4C	5/8	5/8	3	5-1/8	4	47146-00-W	47146-88-W	47146-89-W
RK20-4D	5/8	5/8	3-3/4	5-7/8	4	47148-00-W	47148-88-W	47148-89-W
RK24-5	3/4	3/4	1-1/2	3-3/4	4	47150-00-W	47150-88-W	47150-89-W
RK24-5A	3/4	3/4	2-1/4	4-1/2	4	47152-00-W	47152-88-W	47152-89-W
RK24-5B	3/4	3/4	3	5-1/4	4	47154-00-W	47154-88-W	47154-89-W
RK24-5C	3/4	3/4	3-3/4	6	4	47156-00-W	47156-88-W	47156-89-W
RK24-5D	3/4	3/4	4-1/2	6-3/4	4	47158-00-W	47158-88-W	47158-89-W
RK28-6A	7/8	7/8	1-7/8	4-1/8	4	47160-00-W	47160-88-W	47160-89-W
RK32-7	1	1	2	4-1/2	4	47162-00-W	47162-88-W	47162-89-W
RK32-7A	1	1	3	5-1/2	4	47164-00-W	47164-88-W	47164-89-W
RK32-7B	1	1	4	6-1/2	4	47166-00-W	47166-88-W	47166-89-W
RK32-7C	1	1	5	7-1/2	4	47168-00-W	47168-88-W	47168-89-W
RK32-7D	1	1	6	8-1/2	4	47170-00-W	47170-88-W	47170-89-W
RK40-8	1-1/4	1-1/4	2	4-1/2	4	47172-00-W	47172-88-W	47172-89-W
RK40-8A	1-1/4	1-1/4	3	5-1/2	4	47174-00-W	47174-88-W	47174-89-W
RKX40-8A	1-1/4	1-1/4	4	6-1/2	4	47176-00-W	47176-88-W	47176-89-W
RKA40-8B	1-1/4	1-1/4	4-1/2	7	4	47178-00-W	47178-88-W	47178-89-W
RK40-8B	1-1/4	1-1/4	4-1/2	7	6	47240-00-W	47240-88-W	47240-89-W
RKA40-8C	1-1/4	1-1/4	6	8-1/2	4	47180-00-W	47180-88-W	47180-89-W
RK40-8C	1-1/4	1-1/4	6	8-1/2	6	47242-00-W	47242-88-W	47242-89-W
RKA48-8	1-1/2	1-1/4	2	4-1/2	4	47182-00-W	47182-88-W	47182-89-W
RK48-8	1-1/2	1-1/4	2	4-1/2	6	47244-00-W	47244-88-W	47244-89-W
RKA48-8A	1-1/2	1-1/4	4	6-1/2	4	47184-00-W	47184-88-W	47184-89-W
RK48-8A	1-1/2	1-1/4	4	6-1/2	6	47246-00-W	47246-88-W	47246-89-W
RKA48-8B	1-1/2	1-1/4	6	8-1/2	4	47186-00-W	47186-88-W	47186-89-W
RK48-8B	1-1/2	1-1/4	6	8-1/2	6	47248-00-W	47248-88-W	47248-89-W
RK64-11A	2	2	4	7-3/4	6	47250-00-W	47250-88-W	47250-89-W
RK64-11B	2	2	6	9-3/4	6	47252-00-W	47252-88-W	47252-89-W
RK64-11C	2	2	8	11-3/4	6	47254-00-W	47254-88-W	47254-89-W
RK80-11	2-1/2	2	4	7-3/4	6	47256-00-W	47256-88-W	47256-89-W
RK80-11A	2-1/2	2	6	9-3/4	6	47258-00-W	47258-88-W	47258-89-W





## HSS, Speeds and Feeds Chart for Non-Ferrous Alloys

Speed in Surface Feet per Minute (SFM)		Feed in Feed per Tooth (FPT)				
Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass
Diameter	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass
	HSS SFM	450 - 650	150 - 300	200 - 400	250 - 450	250 - 450
1/4"	S	0.0024	0.0022	0.0020	0.0020	0.0020
	HP	0.0027	0.0027	0.0023	0.0023	0.0023
	LP	0.0037	0.0037	0.0032	0.0032	0.0032
3/8"	S	0.0038	0.0035	0.0032	0.0032	0.0032
	HP	0.0041	0.0041	0.0034	0.0034	0.0034
	LP	0.0054	0.0054	0.0047	0.0047	0.0047
1/2"	S	0.0060	0.0055	0.0050	0.0050	0.0050
	HP	0.0060	0.0060	0.0050	0.0050	0.0050
	LP	0.0080	0.0080	0.0070	0.0070	0.0070
5/8"	S	0.0065	0.0059	0.0054	0.0054	0.0054
	HP	0.0070	0.0070	0.0059	0.0059	0.0059
	LP	0.0095	0.0095	0.0085	0.0085	0.0085
3/4"	S	0.0068	0.0062	0.0057	0.0057	0.0057
	HP	0.0077	0.0077	0.0064	0.0064	0.0064
	LP	0.0103	0.0103	0.0090	0.0090	0.0090
1"	S	0.0108	0.0099	0.0090	0.0090	0.0090
	HP	0.0114	0.0114	0.0095	0.0095	0.0095
	LP	0.0152	0.0152	0.0133	0.0133	0.0133
1-1/4"	S	0.0115	0.0106	0.0096	0.0096	0.0096
	HP	0.0122	0.0122	0.0102	0.0102	0.0102
	LP	0.0162	0.0162	0.0142	0.0142	0.0142
1-1/2"	S	0.0194	0.0178	0.0162	0.0162	0.0162
	HP	0.0217	0.0217	0.0181	0.0181	0.0181
	LP	0.0289	0.0289	0.0253	0.0253	0.0253
2"	S	0.0220	0.0202	0.0184	0.0184	0.0184
	HP	0.0278	0.0278	0.0231	0.0231	0.0231
	LP	0.0370	0.0370	0.0324	0.0324	0.0324

**S = SLOTTING**  
Axial Depth up to  
1.0 x Diameter  
High Coolant Pressure

**CALCULATIONS FOR SPEED**  
RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.5 x Diameter  
Radial with .5 x Diameter

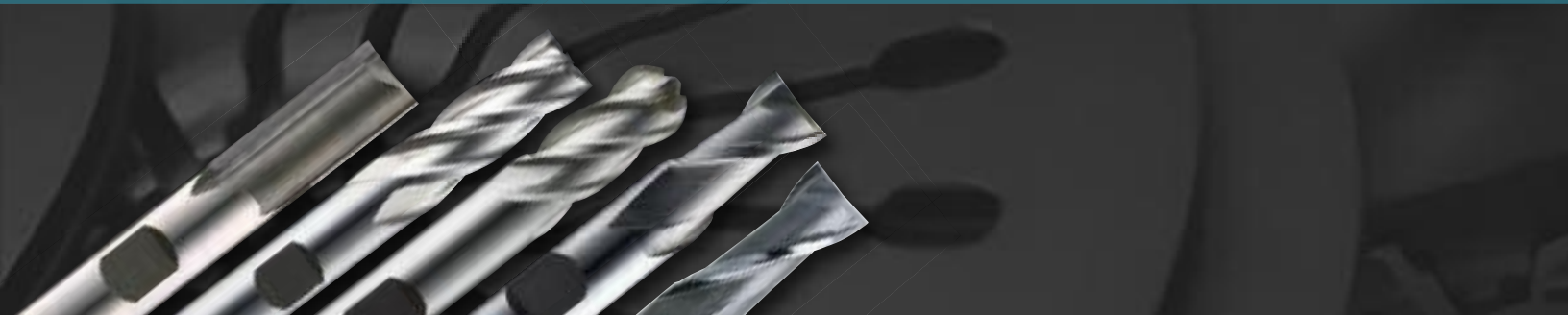
**CALCULATIONS FOR FEED**  
IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

**LP = LIGHT PERIPHERAL**  
Axial Depth up to  
2.0 x Diameter  
Radial with .2 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mills will improve tool life.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





## HSS, Speeds and Feeds Chart for Ferrous Alloys

Speed in Surface Feet per Minute (SFM)      Feed in Feed per Tooth (FPT)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought
Diameter	Description	10XX, 15XX,	40XX, 41XX, 86XX, Series	316L	416, 440C	15-5PH, AM-xx Series	Gray	Ductile	A286, Haynes	Pure	Cast/Wrought Alpha - Beta
HSS SFM		50 - 110	30 - 80	30 - 80	50 - 100	30 - 65	55 - 150	35 - 75	5 - 30	40 - 90	35 - 80
1/4"	S	0.0013	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0008	0.0013	0.0010
	HP	0.0015	0.0010	0.0013	0.0013	0.0010	0.0010	0.0013	0.0008	0.0015	0.0012
	LP	0.0019	0.0018	0.0018	0.0018	0.0018	0.0023	0.0020	0.0018	0.0019	0.0018
3/8"	S	0.0019	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0011	0.0019	0.0015
	HP	0.0023	0.0015	0.0019	0.0019	0.0015	0.0015	0.0019	0.0011	0.0023	0.0017
	LP	0.0028	0.0026	0.0026	0.0026	0.0026	0.0034	0.0030	0.0026	0.0028	0.0026
1/2"	S	0.0025	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0015	0.0025	0.0020
	HP	0.0030	0.0020	0.0025	0.0025	0.0020	0.0020	0.0025	0.0015	0.0030	0.0023
	LP	0.0037	0.0035	0.0035	0.0035	0.0035	0.0045	0.0040	0.0035	0.0037	0.0035
5/8"	S	0.0033	0.0024	0.0027	0.0027	0.0024	0.0024	0.0027	0.0017	0.0033	0.0025
	HP	0.0038	0.0026	0.0031	0.0031	0.0025	0.0025	0.0031	0.0019	0.0038	0.0029
	LP	0.0049	0.0044	0.0044	0.0044	0.0044	0.0057	0.0050	0.0044	0.0046	0.0044
3/4"	S	0.0038	0.0026	0.0032	0.0032	0.0026	0.0026	0.0032	0.0019	0.0038	0.0029
	HP	0.0043	0.0029	0.0036	0.0036	0.0029	0.0029	0.0036	0.0021	0.0043	0.0033
	LP	0.0053	0.0050	0.0050	0.0050	0.0050	0.0064	0.0057	0.0050	0.0053	0.0050
1"	S	0.0054	0.0036	0.0045	0.0045	0.0036	0.0036	0.0045	0.0027	0.0054	0.0041
	HP	0.0060	0.0040	0.0050	0.0050	0.0040	0.0040	0.0050	0.0030	0.0060	0.0046
	LP	0.0074	0.0070	0.0070	0.0070	0.0070	0.0090	0.0080	0.0070	0.0074	0.0070
1-1/4"	S	0.0069	0.0046	0.0058	0.0058	0.0046	0.0046	0.0058	0.0035	0.0069	0.0053
	HP	0.0075	0.0050	0.0063	0.0063	0.0050	0.0050	0.0063	0.0038	0.0075	0.0058
	LP	0.0093	0.0088	0.0088	0.0088	0.0088	0.0113	0.0100	0.0088	0.0093	0.0088
1-1/2"	S	0.0081	0.0054	0.0068	0.0068	0.0054	0.0054	0.0068	0.0041	0.0081	0.0062
	HP	0.0090	0.0060	0.0075	0.0075	0.0060	0.0060	0.0075	0.0045	0.0090	0.0069
	LP	0.0111	0.0105	0.0105	0.0105	0.0105	0.0135	0.0120	0.0105	0.0111	0.0105
2"	S	0.0108	0.0072	0.0090	0.0090	0.0072	0.0072	0.0090	0.0054	0.0108	0.0083
	HP	0.0120	0.0080	0.0100	0.0100	0.0080	0.0080	0.0100	0.0060	0.0120	0.0092
	LP	0.0148	0.0140	0.0140	0.0140	0.0140	0.0180	0.0160	0.0140	0.0148	0.0140

**S = SLOTTING**

Axial Depth up to 1.0 x Diameter  
High Coolant Pressure

**CALCULATIONS FOR SPEED**

RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**HP = HEAVY PERIPHERAL**

Axial Depth up to 1.5 x Diameter  
Radial width >.5 x Diameter

**CALCULATIONS FOR FEED**

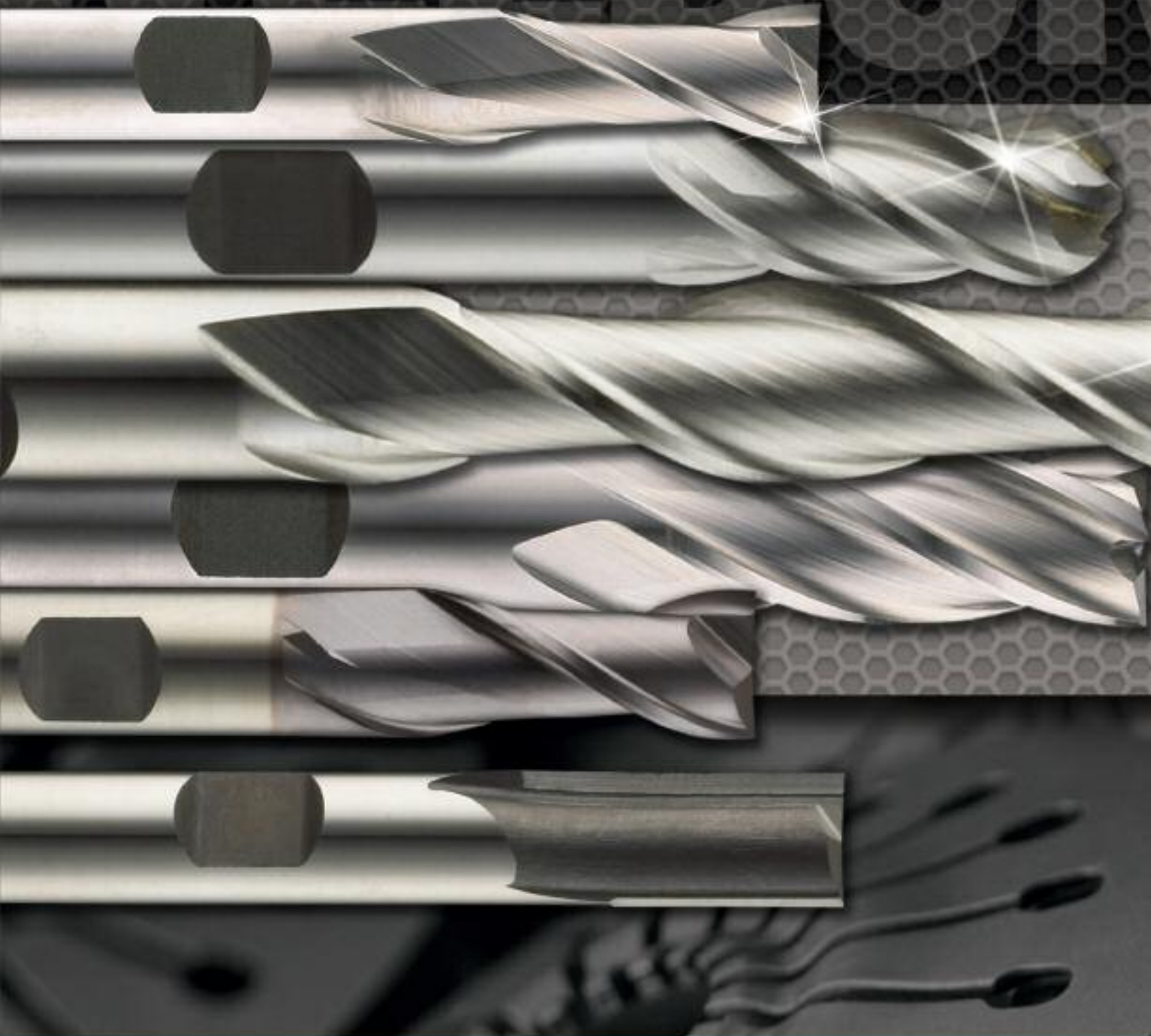
IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

**LP = LIGHT PERIPHERAL**

Axial Depth up to 2.0 x Diameter  
Radial width >.2 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mill will improve tool life.

# WELDDOOR





# General Purpose M-42, HSS End Mills-Multi-Flute

Weldon® offers a variety of M-42, HSS and special application end mills that have been designed to ANSI and NAS specifications. These tools are made from a substrate that offers good abrasion resistance for wear and red hardness at higher milling temperatures than other high speed steels.



## M-42, HSS End Mills Index

Series		Page
CoBS, CoB, CoBL, CoBMF, CoBLF	2 Flute, Single End, M-42	80
CoB-FC	2 Flute, .001 to .0015 Dia. Tolerance, Single End M-42	81
CoB-K	2 Flute, Keyway Mills, Single End, M-42	82
CoSBB	2 Flute, Straight Flute, Single End, M-42	82
CoR, CoRL	2 Flute Ball, Single End, M-42	83
CoC, CoCL	3 Flute, Single End, M-42	84
CoA, CoAS, CoCA CoKC	Multi-Flute, Single End M-42	85-86
CoA-FC	4 Flute, .001 to .0015 Dia. Tolerance, Single End, M-42	87
CoRK, CoAR	4 Flute Ball, Single End, M-42	87
	Aluminum and Non-Ferrous Technical	88
	Titanium and Ferrous Technical	89

# 2 Flute, Single-End

# M-42, HSS



- Medium to Medium Hard and Abrasive Materials
- Profile, Slot and Pocket
- Plunge and Ramp
- Center Cutting
- 30 Degree Right Hand Helix, Right Hand Cut
- Large Core for Rigidity
- Cutting Diameter Tolerance is  $\pm .001/- .000$

Part Number	Dia.	Shank	Length Below Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
CoBS4-2	1/8	3/8		3/16	2-1/8	28002-00-W	28002-88-W	28002-89-W
CoB4-2	1/8	3/8		3/8	2-5/16	28202-00-W	28202-88-W	28202-89-W
CoBL4-2	1/8	3/8	13/16	3/8	2-3/8	28502-00-W	28502-88-W	28502-89-W
CoB5-2	5/32	3/8		7/16	2-5/16	28204-00-W	28204-88-W	28204-89-W
CoBS6-2	3/16	3/8		9/32	2-3/16	28004-00-W	28004-88-W	28004-89-W
CoB6-2	3/16	3/8		7/16	2-5/16	28206-00-W	28206-88-W	28206-89-W
CoBL6-2	3/16	3/8	1-1/8	1/2	2-11/16	28504-00-W	28504-88-W	28504-89-W
CoB7-2	7/32	3/8		1/2	2-5/16	28208-00-W	28208-88-W	28208-89-W
CoBS8-2	1/4	3/8		3/8	2-1/4	28006-00-W	28006-88-W	28006-89-W
CoB8-2	1/4	3/8		1/2	2-5/16	28210-00-W	28210-88-W	28210-89-W
CoBL8-2	1/4	3/8	1-1/2	5/8	3-1/16	28506-00-W	28506-88-W	28506-89-W
CoB9-2	9/32	3/8		9/16	2-5/16	28212-00-W	28212-88-W	28212-89-W
CoB10-2	5/16	3/8		9/16	2-5/16	28214-00-W	28214-88-W	28214-89-W
CoBL10-2	5/16	3/8	1-3/4	3/4	3-5/16	28508-00-W	28508-88-W	28508-89-W
CoB11-2	11/32	3/8		9/16	2-5/16	28216-00-W	28216-88-W	28216-89-W
CoB12-2	3/8	3/8		9/16	2-5/16	28218-00-W	28218-88-W	28218-89-W
CoBL12-2	3/8	3/8	1-3/4	3/4	3-5/16	28510-00-W	28510-88-W	28510-89-W
CoBMF12-2	3/8	3/8		1	2-3/4	28302-00-W	28302-88-W	28302-89-W
CoBLF12-2	3/8	3/8		1-1/2	3-1/4	28402-00-W	28402-88-W	28402-89-W
CoB13-2	13/32	3/8		13/16	2-1/2	28220-00-W	28220-88-W	28220-89-W
CoB14-2	7/16	3/8		13/16	2-1/2	28222-00-W	28222-88-W	28222-89-W
CoB15-2	15/32	3/8		13/16	2-1/2	28224-00-W	28224-88-W	28224-89-W
CoB16-2	1/2	3/8		13/16	2-1/2	28226-00-W	28226-88-W	28226-89-W
CoB16-3	1/2	1/2		1	3	28228-00-W	28228-88-W	28228-89-W
CoB20-4	5/8	5/8		1-5/16	3-7/16	28230-00-W	28230-88-W	28230-89-W
CoB24-5	3/4	3/4		1-5/16	3-9/16	28232-00-W	28232-88-W	28232-89-W
CoB28-6	7/8	7/8		1-1/2	3-3/4	28234-00-W	28234-88-W	28234-89-W
CoB32-7	1	1		1-5/8	4-1/8	28236-00-W	28236-88-W	28236-89-W
CoB40-8	1-1/4	1-1/4		1-5/8	4-1/8	28238-00-W	28238-88-W	28238-89-W
CoB48-8	1-1/2	1-1/4		1-5/8	4-1/8	28240-00-W	28240-88-W	28240-89-W
CoB64-8	2	1-1/4		1-5/8	4-1/8	28242-00-W	28242-88-W	28242-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# 2 Flute, Single-End .001 to .0015 Over Basic Diameter

M-42, HSS



- Medium to Medium Hard and Abrasive Materials
- Profile, Slot and Pocket
- Plunge and Ramp
- 30 Degree Right Hand Helix, Right Hand Cut
- Center Cutting
- Large Core for Rigidity
- Cutting Diameter Tolerance is  $+.001$  to  $+.0015$

Part Number	Dia.	Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
CoB6-2FC	3/16	3/8	7/16	2-5/16	28802-00-W	28802-88-W	28802-89-W
CoB8-2FC	1/4	3/8	1/2	2-5/16	28804-00-W	28804-88-W	28804-89-W
CoB10-2FC	5/16	3/8	9/16	2-5/16	28806-00-W	28806-88-W	28806-88-W
CoB12-2FC	3/8	3/8	9/16	2-5/16	28808-00-W	28808-88-W	28808-89-W

## 2 Flute, Single-End Keyway Cutters

M-42, HSS



- Medium to Medium Hard and Abrasive Materials
- Plunge and Ramp
- Center Cutting
- Keyway, Slot and Pocket
- 30 Degree Right Hand Helix, Right Hand Cut
- Large Core for Rigidity
- Cutting Tolerance is  $+.0000/-0.0015$

Part Number	Dia.	Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
CoB4-2K	1/8	3/8	3/8	2-5/16	28702-00-W	28702-88-W	28702-89-W
CoB6-2K	3/16	3/8	7/16	2-5/16	28704-00-W	28704-88-W	28704-89-W
CoB8-2K	1/4	3/8	1/2	2-5/16	28706-00-W	28706-88-W	28706-89-W
CoB10-2K	5/16	3/8	9/16	2-5/16	28708-00-W	28708-88-W	28708-89-W
CoB12-2K	3/8	3/8	9/16	2-5/16	28710-00-W	28710-88-W	28710-89-W

## 2 Flute, Single-End Straight Flute



- Medium to Medium Hard and Abrasive Materials
- Plunge and Ramp
- Center Cutting
- Slot
- Right Hand Cut
- Large Core for Rigidity
- Cutting Diameter Tolerance is  $+.0000/-0.0015$

Part Number	Dia.	Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
CoSB4-2	1/8	3/8	3/8	2-5/16	28602-00-W	28602-88-W	28602-89-W
CoSB6-2	3/16	3/8	7/16	2-5/16	28604-00-W	28604-88-W	28604-89-W
CoSB8-2	1/4	3/8	1/2	2-5/16	28606-00-W	28606-88-W	28606-89-W
CoSB10-2	5/16	3/8	9/16	2-5/16	28608-00-W	28608-88-W	28608-89-W
CoSB12-2	3/8	3/8	9/16	2-5/16	28610-00-W	28610-88-W	28610-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 2 Flute Ball, Single-End

M-42, HSS



- Medium to Medium Hardness and Abrasive Materials
- Plunge and Ramp
- Profile, Slot and Pocket
- 30 Degree Right Hand Helix, Right Hand Cut
- Center Cutting
- Large Core for Rigidity
- Cutting Diameter Tolerance is + .001/- .000
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	Length Below Shank	LOC	OAL	EDP	TIN EDP	TICN EDP
CoR4-2	1/8	3/8		3/8	2-5/16	27602-00-W	27602-88-W	27602-89-W
CoRL4-2	1/8	3/8	13/16	3/8	2-3/8	27702-00-W	27702-88-W	27702-89-W
CoR5-2	5/32	3/8		7/16	2-5/16	27604-00-W	27604-88-W	27604-89-W
CoR6-2	3/16	3/8		1/2	2-3/8	27606-00-W	27606-88-W	27606-89-W
CoRL6-2	3/16	3/8	1-1/8	1/2	2-11/16	27704-00-W	27704-88-W	27704-89-W
CoR7-2	7/32	3/8		1/2	2-5/16	27608-00-W	27608-88-W	27608-89-W
CoR8-2	1/4	3/8		5/8	2-7/16	27610-00-W	27610-88-W	27610-89-W
CoRL8-2	1/4	3/8	1-1/2	5/8	3-1/16	27706-00-W	27706-88-W	27706-89-W
CoR9-2	9/32	3/8		9/16	2-5/16	27612-00-W	27612-88-W	27612-89-W
CoR10-2	5/16	3/8		3/4	2-1/2	27614-00-W	27614-88-W	27614-89-W
CoRL10-2	5/16	3/8	1-3/4	3/4	3-5/16	27708-00-W	27708-88-W	27708-89-W
CoR11-2	11/32	3/8		9/16	2-5/16	27616-00-W	27616-88-W	27616-89-W
CoR12-2	3/8	3/8		3/4	2-1/2	27618-00-W	27618-88-W	27618-89-W
CoRL12-2	3/8	3/8	1-3/4	3/4	3-5/16	27710-00-W	27710-88-W	27710-89-W
CoR13-3	13/32	3/8		13/16	2-1/2	27620-00-W	27620-88-W	27620-89-W
CoR14-2	7/16	3/8		13/16	2-1/2	27622-00-W	27622-88-W	27622-89-W
CoR16-3	1/2	1/2		1	3	27624-00-W	27624-88-W	27624-89-W
CoR20-4	5/8	5/8		1-3/8	3-1/2	27626-00-W	27626-88-W	27626-89-W
CoR24-5	3/4	3/4		1-5/8	3-7/8	27628-00-W	27628-88-W	27628-89-W
CoR32-7	1	1		2-1/4	4-3/4	27630-00-W	27630-88-W	27630-89-W
CoR40-8	1-1/4	1-1/4		2-1/2	5	27632-00-W	27632-88-W	27632-89-W

# 3 Flute, Single-End

# M-42, HSS



- Medium to Medium Hard and Abrasive Materials
- Profile, Slot and Pocket
- Plunge and Ramp
- Center Cutting
- 30 Degree Right Hand Helix, Right Hand Cut
- Large Core for Rigidity
- Cutting Diameter Tolerance is  $\pm .001/- .000$

Part Number	Dia.	Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
CoC4-2	1/8	3/8	3/8	2-5/16	32010-00-W	32010-88-W	32010-89-W
CoC5-2	5/32	3/8	1/2	2-3/8	32012-00-W	32012-88-W	32012-89-W
CoC6-2	3/16	3/8	1/2	2-3/8	32014-00-W	32014-88-W	32014-89-W
CoC7-2	7/32	3/8	5/8	2-7/16	32016-00-W	32016-88-W	32016-89-W
CoC8-2	1/4	3/8	5/8	2-7/16	32018-00-W	32018-88-W	32018-89-W
CoCL8-2	1/4	3/8	1-1/4	3-1/8	32110-00-W	32110-88-W	32110-89-W
CoC9-2	9/32	3/8	3/4	2-1/2	32020-00-W	32020-88-W	32020-89-W
CoC10-2	5/16	3/8	3/4	2-1/2	32022-00-W	32022-88-W	32022-89-W
CoCL10-2	5/16	3/8	1-3/8	3-3/16	32112-00-W	32112-88-W	32112-89-W
CoC11-2	11/32	3/8	3/4	2-1/2	32024-00-W	32024-88-W	32024-89-W
CoC12-2	3/8	3/8	3/4	2-1/2	32026-00-W	32026-88-W	32026-89-W
CoCL12-2	3/8	3/8	1-1/2	3-1/4	32114-00-W	32114-88-W	32114-89-W
CoC13-2	13/32	3/8	1	2-11/16	32028-00-W	32028-88-W	32028-89-W
CoC14-2	7/16	3/8	1	2-11/16	32030-00-W	32030-88-W	32030-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# 4 and 6 Flute, Single End, Center Cutting

M-42, HSS



- Medium to Medium Hardness and Abrasive Materials
- Plunge and Ramp
- Profile, Slot and Pocket
- 35 Degree Right Hand Helix, Right Hand Cut
- Large Core for Rigidity
- Cutting Diameter Tolerance is  $\pm .003/- .000$
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TIN EDP	TICN EDP
CoAS4-2	1/8	3/8	3/16	2-1/8	4	44010-00-W	44010-88-W	44010-89-W
CoA4-2	1/8	3/8	3/8	2-5/16	4	44110-00-W	44110-88-W	44110-89-W
CoA5-2	5/32	3/8	1/2	2-3/8	4	44112-00-W	44112-88-W	44112-89-W
CoAS6-2	3/16	3/8	9/32	2-3/16	4	44012-00-W	44012-88-W	44012-89-W
CoA6-2	3/16	3/8	1/2	2-3/8	4	44114-00-W	44114-88-W	44114-89-W
CoA7-2	7/32	3/8	5/8	2-7/16	4	44116-00-W	44116-88-W	44116-89-W
CoAS8-2	1/4	3/8	3/8	2-1/4	4	44014-00-W	44014-88-W	44014-89-W
CoA8-2	1/4	3/8	5/8	2-7/16	4	44118-00-W	44118-88-W	44118-89-W
CoA8-2A	1/4	3/8	1-1/4	3-1/16	4	44310-00-W	44310-88-W	44310-89-W
CoA8-2B	1/4	3/8	1-3/4	3-9/16	4	44410-00-W	44410-88-W	44410-89-W
CoA9-2	9/32	3/8	3/4	2-1/2	4	44120-00-W	44120-88-W	44120-89-W
CoA10-2	5/16	3/8	3/4	2-1/2	4	44122-00-W	44122-88-W	44122-89-W
CoA10-2A	5/16	3/8	1-3/8	3-1/8	4	44312-00-W	44312-88-W	44312-89-W
CoA10-2B	5/16	3/8	2	3-3/4	4	44412-00-W	44412-88-W	44412-89-W
CoA11-2	11/32	3/8	3/4	2-1/2	4	44124-00-W	44124-88-W	44124-89-W
CoA12-2	3/8	3/8	3/4	2-1/2	4	44126-00-W	44126-88-W	44126-89-W
CoA12-2A	3/8	3/8	1-1/2	3-1/4	4	44314-00-W	44314-88-W	44314-89-W
CoA12-2B	3/8	3/8	2-1/2	4-1/4	4	44414-00-W	44414-88-W	44414-89-W
COA13-2	13/32	3/8	1	2-11/16	4	44128-00-W	44128-88-W	44128-89-W
CoA14-2	7/16	3/8	1	2-11/16	4	44130-00-W	44130-88-W	44130-89-W
CoA15-2	15/32	3/8	1	2-11/16	4	44132-00-W	44132-88-W	44132-89-W
CoA16-2	1/2	3/8	1	2-11/16	4	44134-00-W	44134-88-W	44134-89-W
CoAC16-3	1/2	1/2	1-1/4	3-1/4	4	44136-00-W	44136-88-W	44136-89-W
CoKC16-3	1/2	1/2	1-1/4	3-1/4	6	44540-00-W	44540-88-W	44540-89-W
CoAC16-3A	1/2	1/2	2	4	4	44240-00-W	44240-88-W	44240-89-W
CoAC16-3B	1/2	1/2	3	5	4	44316-00-W	44316-88-W	44316-89-W
CoAC16-3C	1/2	1/2	4	6	4	44416-00-W	44416-88-W	44416-89-W
CoAC20-4	5/8	5/8	1-5/8	3-3/4	4	44138-00-W	44138-88-W	44138-89-W
CoKC20-4	5/8	5/8	1-5/8	3-3/4	6	44542-00-W	44542-88-W	44542-89-W
CoAC20-4A	5/8	5/8	2-1/2	4-5/8	4	44242-00-W	44242-88-W	44242-89-W
CoAC20-4C	5/8	5/8	3	5-1/8	4	44318-00-W	44318-88-W	44318-89-W
CoAC20-4B	5/8	5/8	4	6-1/8	4	44418-00-W	44418-88-W	44418-89-W

# 4 and 6 Flute, Single End, Center Cutting (continued)

## M-42, HSS



Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	TIN EDP	TICN EDP
CoAC24-5	3/4	3/4	1-5/8	3-7/8	4	44140-00-W	44140-88-W	44140-89-W
CoKC24-5	3/4	3/4	1-5/8	3-7/8	6	44544-00-W	44544-88-W	44544-89-W
CoAC24-5A	3/4	3/4	2	4-1/4	4	44244-00-W	44244-88-W	44244-89-W
CoKC24-5A	3/4	3/4	2	4-1/4	6	44640-00-W	44640-88-W	44640-89-W
CoAC24-5C	3/4	3/4	3	5-1/4	4	44320-00-W	44320-88-W	44320-89-W
CoKC24-5C	3/4	3/4	3	5-1/4	6	44740-00-W	44740-88-W	44740-89-W
CoAC24-5B	3/4	3/4	4	6-1/4	4	44420-00-W	44420-88-W	44420-89-W
CoKC24-5B	3/4	3/4	4	6-1/4	6	44840-00-W	44840-88-W	44840-89-W
CoAC28-6	7/8	7/8	1-7/8	4-1/8	4	44142-00-W	44142-88-W	44142-89-W
CoAC28-6A	7/8	7/8	3-1/2	5-3/4	4	44322-00-W	44322-88-W	44322-89-W
CoAC28-6B	7/8	7/8	6	7-1/4	4	44422-00-W	44422-88-W	44422-89-W
CoAC32-7	1	1	2	4-1/2	4	44144-00-W	44144-88-W	44144-89-W
CoKC32-7	1	1	2	4-1/2	6	44546-00-W	44546-88-W	44546-89-W
CoAC32-7C	1	1	3	5-1/2	4	44246-00-W	44246-88-W	44246-89-W
CoKC32-7C	1	1	3	5-1/2	6	44642-00-W	44642-88-W	44642-89-W
CoAC32-7A	1	1	4	6-1/2	4	44324-00-W	44324-88-W	44324-89-W
CoKC32-7A	1	1	4	6-1/2	6	44742-00-W	44742-88-W	44742-89-W
CoAC32-7B	1	1	6	8-1/2	4	44424-00-W	44424-88-W	44424-89-W
CoKC32-7B	1	1	6	8-1/2	6	44842-00-W	44842-88-W	44842-89-W
CoAC40-8	1-1/4	1-1/4	2	4-1/4	4	44146-00-W	44146-88-W	44146-89-W
CoKC40-8	1-1/4	1-1/4	2	4-1/2	6	44548-00-W	44548-88-W	44548-89-W
CoAC40-8C	1-1/4	1-1/4	3	5-1/2	4	44248-00-W	44248-88-W	44248-89-W
CoKC40-8C	1-1/4	1-1/4	3	5-1/2	6	44644-00-W	44644-88-W	44644-89-W
CoAC40-8A	1-1/4	1-1/4	4	6-1/2	4	44326-00-W	44326-88-W	44326-89-W
CoKC40-8A	1-1/4	1-1/4	4	6-1/2	6	44744-00-W	44744-88-W	44744-89-W
CoAC40-8B	1-1/4	1-1/4	6	8-1/2	4	44426-00-W	44426-88-W	44426-89-W
CoKC40-8B	1-1/4	1-1/4	6	8-1/2	6	44844-00-W	44844-88-W	44844-89-W
CoAC48-8	1-1/2	1-1/4	2	4-1/2	4	44148-00-W	44148-88-W	44148-89-W
CoKC48-8	1-1/2	1-1/4	2	4-1/2	6	44550-00-W	44550-88-W	44550-89-W
CoAC48-8C	1-1/2	1-1/4	3	5-1/2	4	44250-00-W	44250-88-W	44250-89-W
CoKC48-8C	1-1/2	1-1/4	3	5-1/2	6	44646-00-W	44646-88-W	44646-89-W
CoAC48-8A	1-1/2	1-1/4	4	6-1/2	4	44328-00-W	44328-88-W	44328-89-W
CoKC48-8A	1-1/2	1-1/4	4	6-1/2	6	44746-00-W	44746-88-W	44746-89-W
CoAC48-8B	1-1/2	1-1/4	6	8-1/2	4	44428-00-W	44428-88-W	44428-89-W
CoKC48-8B	1-1/2	1-1/4	6	8-1/2	6	44846-00-W	44846-88-W	44846-89-W
CoAC64-8A	2	1-1/4	4	6-1/2	4	44330-00-W	44330-88-W	44330-89-W
CoKC64-8A	2	1-1/4	4	6-1/2	6	44748-00-W	44748-88-W	44748-89-W
CoKC64-10D	2	2	2	5-3/4	6	44552-00-W	44552-88-W	44552-89-W
CoKC64-10C	2	2	3	6-3/4	6	44648-00-W	44648-88-W	44648-89-W
CoKC64-10	2	2	4	7-3/4	6	44750-00-W	44750-88-W	44750-89-W
CoKC64-10A	2	2	6	9-3/4	6	44848-00-W	44848-88-W	44848-89-W

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# 4 Flute, Single-End, .001 to .0015 Over Basic Diameter

M-42, HSS



- Medium to Medium Hardness and Abrasive Materials
- Plunge and Ramp
- Center Cutting
- Profile, Slot and Pocket
- 30 Degree Right Hand Helix, Right Hand Cut
- Large Core for Rigidity
- Cutting Diameter Tolerance is +.001 to +.0015

Part Number	Dia.	Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
CoA6-2FC	3/16	3/8	1/2	2-3/8	44910-00-W	44910-88-W	44910-89-W
CoA8-2FC	1/4	3/8	5/8	2-1/2	44912-00-W	44912-88-W	44912-89-W
CoA10-2FC	5/16	3/8	3/4	2-1/2	44914-00-W	44914-88-W	44914-89-W
CoA12-2FC	3/8	3/8	3/4	2-1/2	44916-00-W	44916-88-W	44916-89-W

# 4 Flute, Ball End



- Medium to Medium Hardness and Abrasive Materials
- Plunge and Ramp
- Center Cutting
- Profile, Slot and Pocket
- 30 Degree Right Hand Helix, Right Hand Cut
- Large Core for Rigidity
- Cutting Diameter Tolerance is +.001/- .000
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Dia.	Shank	LOC	OAL	EDP	TiN EDP	TiCN EDP
CoRK4-2	1/8	3/8	3/8	2-5/16	47510-00-W	47510-88-W	47510-89-W
CoRK5-2	5/32	3/8	1/2	2-3/8	47512-00-W	47512-88-W	47512-89-W
CoRK6-2	3/16	3/8	1/2	2-3/8	47514-00-W	47514-88-W	47514-89-W
CoRK7-2	7/32	3/8	5/8	2-7/16	47516-00-W	47516-88-W	47516-89-W
CoRK8-2	1/4	3/8	5/8	2-7/16	47518-00-W	47518-88-W	47518-89-W
CoRK8-2A	1/4	3/8	1	2-13/16	47520-00-W	47520-88-W	47520-89-W
CoRK8-2B	1/4	3/8	1-1/4	3-1/16	47522-00-W	47522-88-W	47522-89-W
CoRK8-2C	1/4	3/8	1-1/2	3-5/16	47524-00-W	47524-88-W	47524-89-W
CoRK9-2	9/32	3/8	3/4	2-1/2	47526-00-W	47526-88-W	47526-89-W
CoRK10-2	5/16	3/8	3/4	2-1/2	47528-00-W	47528-88-W	47528-89-W
CoRK10-2A	5/16	3/8	1	2-3/4	47530-00-W	47530-88-W	47530-89-W
CoRK10-2C	5/16	3/8	1-1/2	3-1/4	47532-00-W	47532-88-W	47532-89-W
CoRK11-2	11/32	3/8	3/4	2-1/2	47534-00-W	47534-88-W	47534-89-W
CoRK12-2	3/8	3/8	3/4	2-1/2	47536-00-W	47536-88-W	47536-89-W
CoRK12-2A	3/8	3/8	1	2-3/4	47538-00-W	47538-88-W	47538-89-W
CoRK12-2B	3/8	3/8	1-1/2	3-1/4	47540-00-W	47540-88-W	47540-89-W
CoRK12-2C	3/8	3/8	2	3-3/4	47542-00-W	47542-88-W	47542-89-W
CoRK12-2D	3/8	3/8	2-1/2	4-1/4	47544-00-W	47544-88-W	47544-89-W
CoRK12-2	13/32	3/8	1	2-11/16	47546-00-W	47546-88-W	47546-89-W
CoRK14-2	7/16	3/8	1	2-11/16	47548-00-W	47548-88-W	47548-89-W
CoAR16-3	1/2	1/2	1-1/4	3-1/4	47550-00-W	47550-88-W	47550-89-W
CoAR20-4	5/8	5/8	1-5/8	3-3/4	47552-00-W	47552-88-W	47552-89-W
CoAR24-5	3/4	3/4	1-5/8	3-7/8	47554-00-W	47554-88-W	47554-89-W
CoAR32-7	1	1	2	4-1/2	47556-00-W	47556-88-W	47556-89-W



## M42, HSS End Mills Speeds and Feeds Chart for Non-Ferrous Alloys

Speed in Surface Feet per Minute (SFM)		Feed in Feed per Tooth (FPT)				
Materials		Aluminum Alloys	Aluminum Cast	Aluminum	Copper	Brass
Diameter	Description	6061, 7075	Sand & Permanent Mold	>10%Silicon High Silicon Based	Cast, Wrought	Yellow, Red Leaded Brass
	Cobalt SFM	600 - 800	200 - 400	250 - 500	300 - 600	300 - 600
1/4"	S	0.0024	0.0022	0.0020	0.0020	0.0020
	HP	0.0027	0.0027	0.0023	0.0023	0.0023
	LP	0.0037	0.0037	0.0032	0.0032	0.0032
3/8"	S	0.0038	0.0035	0.0032	0.0032	0.0032
	HP	0.0041	0.0041	0.0034	0.0034	0.0034
	LP	0.0054	0.0054	0.0047	0.0047	0.0047
1/2"	S	0.0060	0.0055	0.0050	0.0050	0.0050
	HP	0.0060	0.0060	0.0050	0.0050	0.0050
	LP	0.0080	0.0080	0.0070	0.0070	0.0070
5/8"	S	0.0065	0.0059	0.0054	0.0054	0.0054
	HP	0.0070	0.0070	0.0059	0.0059	0.0059
	LP	0.0095	0.0095	0.0085	0.0085	0.0085
3/4"	S	0.0068	0.0062	0.0057	0.0057	0.0057
	HP	0.0077	0.0077	0.0064	0.0064	0.0064
	LP	0.0103	0.0103	0.0090	0.0090	0.0090
1"	S	0.0108	0.0099	0.0090	0.0090	0.0090
	HP	0.0114	0.0114	0.0095	0.0095	0.0095
	LP	0.0152	0.0152	0.0133	0.0133	0.0133
1-1/4"	S	0.0115	0.0106	0.0096	0.0096	0.0096
	HP	0.0122	0.0122	0.0102	0.0102	0.0102
	LP	0.0162	0.0162	0.0142	0.0142	0.0142
1-1/2"	S	0.0194	0.0178	0.0162	0.0162	0.0162
	HP	0.0217	0.0217	0.0181	0.0181	0.0181
	LP	0.0289	0.0289	0.0253	0.0253	0.0253
2"	S	0.0220	0.0202	0.0184	0.0184	0.0184
	HP	0.0278	0.0278	0.0231	0.0231	0.0231
	LP	0.0370	0.0370	0.0324	0.0324	0.0324

**S = SLOTTING**  
Axial Depth up to  
1.0 x Diameter  
High Coolant Pressure

**CALCULATIONS FOR SPEED**  
RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.5 x Diameter  
Radial with .5 x Diameter

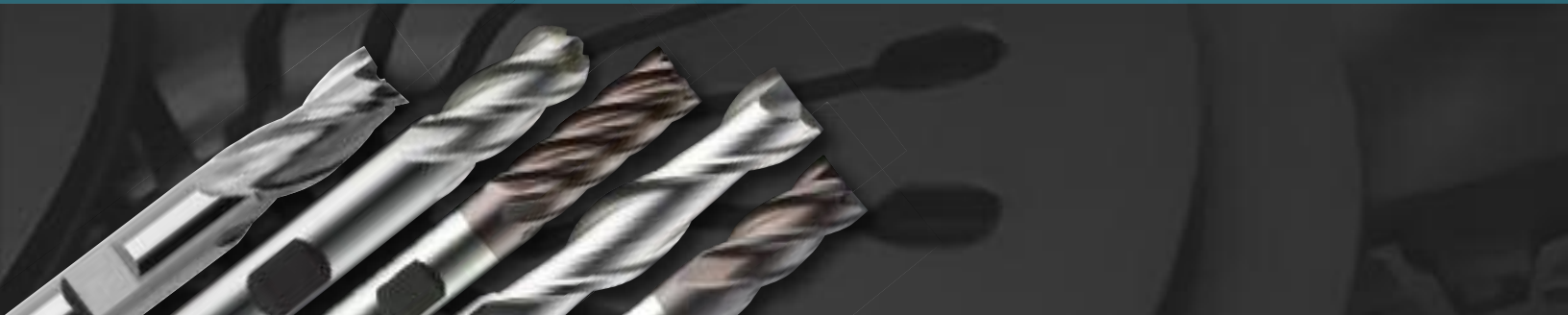
**CALCULATIONS FOR FEED**  
IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

**LP = LIGHT PERIPHERAL**  
Axial Depth up to  
2.0 x Diameter  
Radial with .2 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mills will improve tool life.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





## M42, HSS End Mills Speeds and Feeds Chart for Ferrous Alloys

Speed in Surface Feet per Minute (SFM)

Feed in Feed per Tooth (FPT)

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast /Wrought
Diameter	Description	10XX, 15XX,	40XX, 41XX, 86XX, Series	316L	416, 440C	15-5PH, AM-xx Series	Gray	Ductile	A286, Haynes	Pure	Cast/Wrought Alpha - Beta
Cobalt SFM		60 - 120	30 - 100	30 - 90	50 - 110	30 - 70	60 - 160	40 - 80	5 - 35	55 - 100	40 - 90
1/4"	S	0.0013	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0008	0.0013	0.0010
	HP	0.0015	0.0010	0.0013	0.0013	0.0010	0.0010	0.0013	0.0008	0.0015	0.0012
	LP	0.0019	0.0018	0.0018	0.0018	0.0018	0.0023	0.0020	0.0018	0.0019	0.0018
3/8"	S	0.0019	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0011	0.0019	0.0015
	HP	0.0023	0.0015	0.0019	0.0019	0.0015	0.0015	0.0019	0.0011	0.0023	0.0017
	LP	0.0028	0.0026	0.0026	0.0026	0.0026	0.0034	0.0030	0.0026	0.0028	0.0026
1/2"	S	0.0025	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0015	0.0025	0.0020
	HP	0.0030	0.0020	0.0025	0.0025	0.0020	0.0020	0.0025	0.0015	0.0030	0.0023
	LP	0.0037	0.0035	0.0035	0.0035	0.0035	0.0045	0.0040	0.0035	0.0037	0.0035
5/8"	S	0.0033	0.0024	0.0027	0.0027	0.0024	0.0024	0.0027	0.0017	0.0033	0.0025
	HP	0.0038	0.0026	0.0031	0.0031	0.0025	0.0025	0.0031	0.0019	0.0038	0.0029
	LP	0.0049	0.0044	0.0044	0.0044	0.0044	0.0057	0.0050	0.0044	0.0046	0.0044
3/4"	S	0.0038	0.0026	0.0032	0.0032	0.0026	0.0026	0.0032	0.0019	0.0038	0.0029
	HP	0.0043	0.0029	0.0036	0.0036	0.0029	0.0029	0.0036	0.0021	0.0043	0.0033
	LP	0.0053	0.0050	0.0050	0.0050	0.0050	0.0064	0.0057	0.0050	0.0053	0.0050
1"	S	0.0054	0.0036	0.0045	0.0045	0.0036	0.0036	0.0045	0.0027	0.0054	0.0041
	HP	0.0060	0.0040	0.0050	0.0050	0.0040	0.0040	0.0050	0.0030	0.0060	0.0046
	LP	0.0074	0.0070	0.0070	0.0070	0.0070	0.0090	0.0080	0.0070	0.0074	0.0070
1-1/4"	S	0.0069	0.0046	0.0058	0.0058	0.0046	0.0046	0.0058	0.0035	0.0069	0.0053
	HP	0.0075	0.0050	0.0063	0.0063	0.0050	0.0050	0.0063	0.0038	0.0075	0.0058
	LP	0.0093	0.0088	0.0088	0.0088	0.0088	0.0113	0.0100	0.0088	0.0093	0.0088
1-1/2"	S	0.0081	0.0054	0.0068	0.0068	0.0054	0.0054	0.0068	0.0041	0.0081	0.0062
	HP	0.0090	0.0060	0.0075	0.0075	0.0060	0.0060	0.0075	0.0045	0.0090	0.0069
	LP	0.0111	0.0105	0.0105	0.0105	0.0105	0.0135	0.0120	0.0105	0.0111	0.0105
2"	S	0.0108	0.0072	0.0090	0.0090	0.0072	0.0072	0.0090	0.0054	0.0108	0.0083
	HP	0.0120	0.0080	0.0100	0.0100	0.0080	0.0080	0.0100	0.0060	0.0120	0.0092
	LP	0.0148	0.0140	0.0140	0.0140	0.0140	0.0180	0.0160	0.0140	0.0148	0.0140

**S = SLOTTING**

Axial Depth up to 1.0 x Diameter  
High Coolant Pressure

**CALCULATIONS FOR SPEED**

RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**HP = HEAVY PERIPHERAL**

Axial Depth up to 1.5 x Diameter  
Radial width >.5 x Diameter

**CALCULATIONS FOR FEED**

IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

**LP = LIGHT PERIPHERAL**

Axial Depth up to 2.0 x Diameter  
Radial width >.2 x Diameter

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mill will improve tool life.



# WELDDOM



# Powdered Metal End Mills

Powdered Metal end mills provide a bridge between cobalt tool performance characteristics and carbide tool performance. Powdered Metal tools have a increased toughness, a feature that provides greater resistance to edge chipping, resulting in longer tool life and higher cutting feeds and speeds. These tools can machine very tough materials without excessive cutting edge wear.



## Roughing End Mills

Series		Page
WRT	Roughing Multi-Flute End Mills, PM Vanadium Steel	93

## Roughing/Finishing End Mills

Series		Page
WM	Roughing/Finishing Multi-Flute End Mills for Profiling	95





Powdered Metal roughers provide the bridge between cobalt tool performance characteristics and carbide tool performance. These tools can machine very tough materials without excessive cutting edge wear.

## Powdered Metal Speeds and Feeds Chart for Ferrous Alloys

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	Titanium Pure	Titanium Cast/Wrought
Diameter	Description	10XX, 15XX	40XX, 41XX, 86XX, Series	316L	416, 440C	15-5PH, AM-XX Series	Gray	Ductile	A286, Haynes	Pure	Cast/Wrought Alpha - Beta
	PM SFM	70 - 140	40 - 110	40 - 100	60 - 120	40 - 80	70 - 180	50 - 90	5 - 40	70 - 120	50 - 100
1/2"	S	0.0025	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0015	0.0025	0.0020
	HP	0.0030	0.0020	0.0025	0.0025	0.0020	0.0020	0.0025	0.0015	0.0030	0.0023
	LP	0.0037	0.0035	0.0035	0.0035	0.0035	0.0045	0.0040	0.0035	0.0037	0.0035
5/8"	S	0.0033	0.0024	0.0027	0.0027	0.0024	0.0024	0.0027	0.0017	0.0033	0.0025
	HP	0.0038	0.0026	0.0031	0.0031	0.0025	0.0025	0.0031	0.0019	0.0038	0.0029
	LP	0.0049	0.0044	0.0044	0.0044	0.0044	0.0057	0.0050	0.0044	0.0046	0.0044
3/4"	S	0.0038	0.0026	0.0032	0.0032	0.0026	0.0026	0.0032	0.0019	0.0038	0.0029
	HP	0.0043	0.0029	0.0036	0.0036	0.0029	0.0029	0.0036	0.0021	0.0043	0.0033
	LP	0.0053	0.0050	0.0050	0.0050	0.0050	0.0064	0.0057	0.0050	0.0053	0.0050
1"	S	0.0054	0.0036	0.0045	0.0045	0.0036	0.0036	0.0045	0.0027	0.0054	0.0041
	HP	0.0060	0.0040	0.0050	0.0050	0.0040	0.0040	0.0050	0.0030	0.0060	0.0046
	LP	0.0074	0.0070	0.0070	0.0070	0.0070	0.0090	0.0080	0.0070	0.0074	0.0070
1-1/4"	S	0.0069	0.0046	0.0058	0.0058	0.0046	0.0046	0.0058	0.0035	0.0069	0.0053
	HP	0.0075	0.0050	0.0063	0.0063	0.0050	0.0050	0.0063	0.0038	0.0075	0.0058
	LP	0.0093	0.0088	0.0088	0.0088	0.0088	0.0113	0.0100	0.0088	0.0093	0.0088
1-1/2"	S	0.0081	0.0054	0.0068	0.0068	0.0054	0.0054	0.0068	0.0041	0.0081	0.0062
	HP	0.0090	0.0060	0.0075	0.0075	0.0060	0.0060	0.0075	0.0045	0.0090	0.0069
	LP	0.0111	0.0105	0.0105	0.0105	0.0105	0.0135	0.0120	0.0105	0.0111	0.0105
2"	S	0.0108	0.0072	0.0090	0.0090	0.0072	0.0072	0.0090	0.0054	0.0108	0.0083
	HP	0.0120	0.0080	0.0100	0.0100	0.0080	0.0080	0.0100	0.0060	0.0120	0.0092
	LP	0.0148	0.0140	0.0140	0.0140	0.0140	0.0180	0.0160	0.0140	0.0148	0.0140

**S = SLOTTING**  
Axial Depth up to  
1.0 x Diameter

**HP = HEAVY PERIPHERAL**  
Axial Depth up to 2.0 x Diameter  
Radial width >.3 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to 3.0 x Diameter  
Radial width >.05 x Diameter

**CALCULATIONS FOR SPEED**  
RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**CALCULATIONS FOR FEED**  
IPM = # of FLUTES x FPT x RPM  
FPT = IPM / (RPM x # of Flutes)

**Note!** When using coated end mills increase SFM by 20%-35%.

For additional support and for maximum optimization of your Weldon tools,  
call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# Bulldog® Roughers, Coarse Pitch, Non-Center Cutting

## PM Vanadium

- Medium to Medium Hard and Abrasive Materials
- Profile and Open End Slotting
- Will Not Plunge
- 30 Degree Helix, Right Hand Cut, Right Hand Helix
- Cutting Diameter Tolerance  
+.005/-0.00
- Large Core for Rigidity
- Powdered Metal Substrate of M4
- Substrate Provides Very High Edge  
Hardness and Abrasive Resistance
- Two Screw Drive on 7/8" Shanks and Larger

Part Number	Diameter	Shank	LOC	OAL	No. of Flutes	EDP	TICN EDP	AITIN EDP
WRT16-3A	1/2	1/2	1-1/4	3-1/4	4	64802-00-W	64802-89-W	64802-85-W
WRT16-3B	1/2	1/2	2	4	4	64804-00-W	64804-89-W	64804-85-W
WRT20-4	5/8	5/8	1-5/8	3-3/4	4	64806-00-W	64806-89-W	64806-85-W
WRT20-4B	5/8	5/8	2-1/2	4-5/8	4	64808-00-W	64808-89-W	64808-85-W
WRT24-5	3/4	3/4	1-5/8	3-7/8	4	64810-00-W	64810-89-W	64810-85-W
WRT24-5B	3/4	3/4	3	5-1/4	4	64812-00-W	64812-89-W	64812-85-W
WRT28-5	7/8	3/4	1-7/8	4-1/8	5	64814-00-W	64814-89-W	64814-85-W
WRT28-5B	7/8	3/4	3-1/2	5-3/4	5	64816-00-W	64816-89-W	64816-85-W
WRT32-7	1	1	2	4-1/2	5	64818-00-W	64818-89-W	64818-85-W
WRT32-7B	1	1	4	6-1/2	5	64820-00-W	64820-89-W	64820-85-W
WRT36-7	1-1/8	1	2	4-1/2	6	64822-00-W	64822-89-W	64822-85-W
WRT40-8	1-1/4	1-1/4	2	4-1/2	6	64824-00-W	64824-89-W	64824-85-W
WRT40-8B	1-1/4	1-1/4	4	6-1/2	6	64826-00-W	64826-89-W	64826-85-W
WRT48-8	1-1/2	1-1/4	2	4-1/2	6	64828-00-W	64828-89-W	64828-85-W
WRT48-8B	1-1/2	1-1/4	4	6-1/2	6	64830-00-W	64830-89-W	64830-85-W
WRT56-8	1-3/4	1-1/4	2-1/2	5	6	64832-00-W	64832-89-W	64832-85-W
WRT56-8A	1-3/4	1-1/4	4-1/2	7	6	64834-00-W	64834-89-W	64834-85-W
WRT64-8	2	1-1/4	2	4-1/2	8	64836-00-W	64836-89-W	64836-85-W
WRT64-8A	2	1-1/4	4	6-1/2	8	64838-00-W	64838-89-W	64838-85-W
WRT64-11A	2	2	3	6-3/4	8	64840-00-W	64840-89-W	64840-85-W
WRT64-11B	2	2	4	7-3/4	8	64842-00-W	64842-89-W	64842-85-W
WRT64-11C	2	2	5	8-3/4	8	64844-00-W	64844-89-W	64844-85-W
WRT64-11D	2	2	6	9-3/4	8	64846-00-W	64846-89-W	64846-85-W
WRT64-11E	2	2	7	10-3/4	8	64848-00-W	64848-89-W	64848-85-W
WRT64-11F	2	2	8	11-3/4	8	64850-00-W	64850-89-W	64850-85-W
WRT80-11	2-1/2	2	4	7-3/4	8	64852-00-W		
WRT80-11A	2-1/2	2	6	9-3/4	8	64854-00-W		
WRT80-11B	2-1/2	2	8	11-3/4	8	64856-00-W		





Powdered Metal roughers provide the bridge between cobalt tool performance characteristics and carbide tool performance. These tools can machine very tough materials without excessive cutting edge wear.

## WM Titanium Finisher, Powdered Metal Speeds and Feeds Chart for Ferrous Alloys

Materials		Carbon Steels	Alloy Steel	Stainless Steel 300 Series	Stainless Steel 400 Series	Precipitation Stainless Steels	Gray Cast Iron	Ductile Cast Iron	High Temp Alloys	High Temp Alloys	Titanium Pure	Titanium Cast/Wrought
Diameter	Description	10XX, 11XX, 13XX, 15XX	40XX, 41XX, 42XX, 43XX, 44XX, 46XX, 86XX, Series	304, 304L, 312, 316, 316L	416, 420, 420F, 430F, 440C	15-5PH, 16-6PH, 17-4PH, AM-XX Series	Gray	Ductile	Cobalt/Nickel Base Stellite, Haynes Inconel, Monel, Rene	Iron Base Incoloy A-286	Pure	Cast/Wrought 6AL4V, ASTM 6Al-25N-4Zr-2Mo-Si
	PM SFM	70 - 140	30 - 100	40 - 100	60 - 120	40 - 80	70 - 180	50 - 90	5 - 40	5 - 35	70 - 120	50 - 100
1/2"	HP	0.0030	0.0020	0.0025	0.0020	0.0020	0.0020	0.0025	0.0015	0.0015	0.0030	0.0023
	LP	0.0037	0.0035	0.0035	0.0035	0.0035	0.0045	0.0040	0.0035	0.0035	0.0037	0.0035
5/8"	HP	0.0038	0.0026	0.0019	0.0031	0.0025	0.0025	0.0031	0.0019	0.0019	0.0038	0.0029
	LP	0.0049	0.0044	0.0044	0.0044	0.0044	0.0057	0.0050	0.0044	0.0050	0.0046	0.0044
3/4"	HP	0.0043	0.0029	0.0021	0.0036	0.0029	0.0029	0.0036	0.0021	0.0021	0.0043	0.0033
	LP	0.0053	0.0050	0.0050	0.0050	0.0050	0.0064	0.0057	0.0050	0.0050	0.0053	0.0050
1"	HP	0.0060	0.0040	0.0030	0.0050	0.0040	0.0040	0.0050	0.0030	0.0030	0.0060	0.0046
	LP	0.0074	0.0070	0.0070	0.0070	0.0070	0.0090	0.0080	0.0070	0.0070	0.0074	0.0070
1-1/4"	HP	0.0075	0.0050	0.0038	0.0063	0.0050	0.0050	0.0063	0.0038	0.0038	0.0075	0.0058
	LP	0.0093	0.0088	0.0088	0.0088	0.0088	0.0113	0.0100	0.0088	0.0088	0.0093	0.0088
1-1/2"	HP	0.0090	0.0060	0.0045	0.0045	0.0060	0.0075	0.0075	0.0045	0.0045	0.0090	0.0069
	LP	0.0111	0.0105	0.0105	0.0105	0.0105	0.0135	0.0120	0.0105	0.0100	0.0111	0.0105
2"	HP	0.0120	0.0080	0.0060	0.0080	0.0080	0.0080	0.0100	0.0060	0.0060	0.0120	0.0092
	LP	0.0148	0.0140	0.0140	0.0140	0.0140	0.0180	0.0160	0.0140	0.0140	0.0148	0.0140

**HP = HEAVY PERIPHERAL**  
Axial Depth up to  
1.5 x Diameter  
Radial with .5 x Diameter

**LP = LIGHT PERIPHERAL**  
Axial Depth up to  
2.0 x Diameter  
Radial with .2 x Diameter

**CALCULATIONS FOR SPEED**  
RPM = (3.82 x SFM) / DIA.  
SFM = (RPM x DIA.) / 3.82

**CALCULATIONS FOR FEED**  
IPM = # of FLUTES x FPT x RPM  
FTP = IPM / (RPM x # of Flutes)

**Note!** Horsepower will be the limiting factor with larger diameter end mills. Using coated end mills will improve tool life.

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





# Single End, Multi-Flute

# Powdered Metal

- Medium to Medium Hard and Abrasive Materials
- 45 Degree Right Hand Helix, Right Hand Cut
- Rough and Finish
- Profile

- All Tools Supplied With Plain Round Shank
- Cutting Diameter Tolerance +.003/- .000
- Substrate Provides Very High Edge Hardness and Abrasion Resistance

Part Number	Dia.	Shank	LOC	OAL	No. of Flutes	EDP	AITiN	AITiN w/.060	AITiN w/.090	AITiN w/.120	AITiN w/.190	AITiN w/.250
WM50500	1/2	1/2	1/1-4	3-1/4	5	57800-00-W	57800-85-W	57802-85-W	57803-85-W			
WML50500	1/2	1/2	2	4	5	57804-00-W	57804-85-W	57806-85-W	57807-85-W			
WM50750	3/4	3/4	1-5/8	3-7/8	5	57808-00-W	57808-85-W			57810-85-W	57811-85-W	
WMM50750	3/4	3/4	2-1/4	4-1/2	5	57812-00-W	57812-85-W			57814-85-W	57815-85-W	
WML5750	3/4	3/4	3	5-1/4	5	57816-00-W	57816-85-W			57818-85-W	57819-85-W	
WM51000	1	1	2	4-1/2	5	57820-00-W	57820-85-W			57822-85-W	57823-85-W	
WMM51000	1	1	3	5-1/2	5	57824-00-W	57824-85-W			57826-85-W	57827-85-W	
WML51000	1	1	4	6-1/2	5	57828-00-W	57828-85-W			57830-85-W	57831-85-W	
WM71250	1-1/4	1-1/4	2	4-1/2	7	57832-00-W	57832-85-W			57834-85-W	57835-85-W	
WMM71250	1-1/4	1-1/4	3	5-1/2	7	57836-00-W	57836-85-W			57838-85-W	57839-85-W	
WML71250	1-1/4	1-1/4	4	6-1/2	7	57840-00-W	57840-85-W			57842-85-W	57843-85-W	
WMX71250	1-1/4	1-1/4	6	8-1/2	7	57844-00-W	57844-85-W			57846-85-W	57847-85-W	
WM92000	2	2	2	5-3/4	9	57848-00-W	57848-85-W			57850-85-W		57851-85-W
WMM92000	2	2	3	6-3/4	9	57852-00-W	57852-85-W			57854-85-W		57855-85-W
WML92000	2	2	4	7-3/4	9	57856-00-W	57856-85-W			57858-85-W		57859-85-W
WMX92000	2	2	6	9-3/4	9	57860-00-W	57860-85-W			57862-85-W		57863-85-W

# WELDON



# Countersink, Counterbores, Jig Borers and Hole Saws

In this section, Weldon's unique offering of specialty tools which include the Zero Flute Countersink, Tu-Lip® Counterbores, close tolerance Jig-Borer Reamers, Hole Saws and Arbors for Aerospace and Motor Home industries.



## Countersink, Counterbores, Jig Borers, Corner Rounders and Hole Saws

Series		Page
DB, CS, CSA, DC	Countersinks and Deburring Tools	98-99
LGN, LGS LGL	Tu-lip® Counterbores, 2 Flute	100
J	Jig Borer Reamers	101
CR	Corner Rounding End Mills	102
WHS, WHSA	Hole Saws and Arbors	103
	Countersinks Technical Chart	104





- Free-Cutting
- Chatterless Finish
- Weldonite Coating
- Cuts a Wide Range of Materials

Weldon high-speed steel countersinks and deburring tools are known for their unique designs and their ability to cut a wide range of materials from wood, plastic and metal. This unique tool is free cutting and chatterless which leave a smooth finish. Tools are stock for 60, 82, 90 and 100 degree cutting.



## Countersink Sets

Description	Part Number	EDP
The 60° Set consists of six tools: DC-6, DC-8, DC-14, DC-18, DC-26 and DC-36	60DB	99038-94-W
The 90° Set Consists of six tools: DB-6, DB-8, DB-14, DB-18, DB-26 and DB-36	90DB	99040-94-W
The 82°-1C set consists of nine tools: CS-5S, CS-6S, CS-8S, CS-10S, CS8-1, CS10-1, CS12-1, CS14-1 and CS16-1. Pilots with basic diameters are furnished with this set.	1C	99034-94-W
The 82°-1C set consists of nine tools: CS-5S, CS-6S, CS-8S, CS-10S, CS8-2, CS10-2, CS12-2, CS14-2 and CS16-2. Pilots with 1/64 oversize diameters are furnished with this set.	2C	99036-94-W
The 82°-WC set consists of four tools: CS-5S, CS-6S, CS-8S and CS-10S	WC-Set	99044-94-W
The 82°-GC set consists of four tools: CS-6S, CS-8S, CS-10S and CS-18	GC-Set	99042-94-W
The 82°-WCG set consists of five tools: CS-5S, CS-6S, CS-8S, CS-10S and CS-18	WCG-Set	99046-94-W
The 82° Hex Shank Countersink set consist of three tools: CS-3SH, CS-8SH, CS-18H	CSH-SET	98903-33-W
Rivet Head Remover, one piece construction		60515-00-W

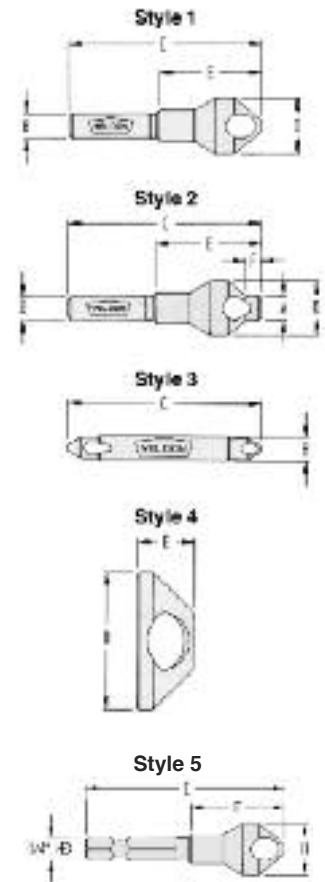
For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# Countersinks and Deburring Tools



	Diameter of Cut		Screw Size	A	Shank Dia. B	OAL C	D	E	F	Style	Part No.	EDP No.
	Min.	Max.										
<b>60°</b> Deburring Tools	3/32	11/64			3/16	1-1/2				3	DC-6	98610-94-W
	1/8	15/64			1/4	1-3/4				3	DC-8	98620-94-W
	3/16	13/32			1/4	1-3/4	7/16	7/8		1	DC-14	98630-94-W
	5/16	17/32			1/4	1-15/16	9/16	1-1/16		1	DC-18	98640-94-W
	7/16	25/32			1/2	2-11/16	13/16	1-7/16		1	DC-26	98660-94-W
	7/16	25/32			1/4	2-1/8	13/16	1-1/4		1	DC-26A	98650-94-W
	11/16	1-3/32			1/2	2-7/8	1-1/8	1-5/8		1	DC-36	98670-94-W
<b>82°</b> Countersinks			1/4	1/4	3/8	2	33/64	1	5/32	2	CS8-1	98710-94-W
			1/4	17/64	3/8	2	33/64	1	5/32	2	CS8-2	98712-94-W
			5/16	5/16	3/8	2-3/16	41/64	1-3/16	5/32	2	CS10-1	98714-94-W
			5/16	21/64	3/8	2-3/16	41/64	1-3/16	5/32	2	CS10-2	98716-94-W
			3/8	3/8	1/2	2-5/8	49/64	1-3/8	5/32	2	CS12-1	98718-94-W
			3/8	25/64	1/2	2-5/8	49/64	1-3/8	5/32	2	CS12-2	98720-94-W
			7/16	7/16	1/2	2-3/4	53/64	1-1/2	7/32	2	CS14-1	98722-94-W
			7/16	29/64	1/2	2-3/4	53/64	1-1/2	7/32	2	CS14-2	98724-94-W
			1/2	1/2	1/2	2-13/16	15/16	1-9/16	1/4	2	CS16-1	98726-94-W
			1/2	33/64	1/2	2-13/16	15/16	1-9/16	1/4	2	CS16-2	98728-94-W
<b>82°</b> Pilotless Countersinks	.073	15/64			1/4	1-3/4				3	CS-3S	98810-94-W
	3/16	17/32			1/4	1-7/8	9/16	1		1	CS-18	98820-94-W
	.307	25/32			1/2	2-5/8	13/16	1-3/8		1	CS-26A	98824-94-W
	.307	25/32			1/4	2-1/16	13/16	1-1/4		1	CS-26A	98822-94-W
	.431	7/8			1/2	2-13/16	1-1/8	1-9/16		1	CS-36	98826-94-W
	1/2	1-15/32			1/2	3-1/2	1-1/2	2-1/8		1	CS-48	98828-94-W
			No. 4, 5		1/4	1-1/2	17/64	5/8		1	CS-5S	98812-94-W
			No. 6		1/4	1-1/2	19/64	5/8		1	CS-6S	98814-94-W
			No. 8		1/4	1-5/8	11/32	3/4		1	CS-8S	98816-94-W
			No. 10		1/4	1-5/8	25/64	3/4		1	CS-10S	98818-94-W
5/64	15/64	Nos. 2, 3 4	Hex		1-27/32	1/4			5	CS-3SH	98900-33-W	
1/8	11/32	Nos. 5, 6 8	Hex		2	11/32	3/4		5	CS-8SH	98901-33-W	
3/16	17/32	Nos. 10, 12, 14	Hex		2-5/16	9/16	1-1/16		5	CS-18H	98902-33-W	
<b>90°</b> Deburring Tools	1/64	11/64			3/16	1-1/2				3	DB-4	98910-94-W
	1/16	11/64			3/16	1-1/2				3	DB-6	98912-94-W
	1/8	15/64			1/4	1-3/4				3	DB-8	98914-94-W
	5/32	13/32			1/4	1-11/16	7/16	13/16		1	DB-14	98916-94-W
	3/16	17/32			1/4	1-7/8	9/16	1		1	DB-18	98918-94-W
	5/16	25/32			1/2	2-19/32	13/16	1-3/8		1	DB-26	98922-94-W
	5/16	25/32			1/4	2-1/32	13/16	1-5/32		1	DB-26A	98920-94-W
	9/16	1-3/32			1/2	2-13/16	1-1/8	1-9/16		1	DB-36	98926-94-W
	1/2	1-15/32			1/2	3-1/2	1-1/2	2-1/8		1	DB-48	98924-94-W
	1-1/16	2					2-1/8	7/8		4	DB-64	98928-94-W
2	3					3-1/8	1		4	DB-96	98930-94-W	
<b>100°</b> Countersinks	3/32	1/4			1/4	1-1/2	17/64	5/8		1	CSA-8	98110-94-W
	1/8	27/64			1/4	1-11/16	7/16	13/16		1	CSA-14	98120-94-W
	3/16	35/64			1/4	1-7/8	9/16	1		1	CSA-18	98130-94-W



These tools can be sharpened by the use of a small mounted grinding wheel inserted in the hole.

## Shanks for DB-64 and DB-96

Size	Use	Part No.	EDP No.
1/2 Straight	DB-64	DS-2	98510-00-W
No. 2 Morse	DB-64	DS-2T	98530-00-W
1/2 Straight	DB-96	DS-3	98520-00-W
No. 2 Morse	DB-96	DS-3T	98540-00-W







- Free Cutting
- Offerings in Short and Long Series for Reach
- Made of High Speed Steel
- 2 Flutes for Better Chip Elevation

The Weldon Tu-Lip Counterbores are extremely free cutting. Generous chip room in the flutes minimizes breakage caused by clogging. Solid pilots without grooves will not ream or mar holes.

Part Number	Screw Size	Pilot Dia.	Cutting Lip Dia.	Shank	OAL	EDP
LGN4-1	No. 4	.110	.199	5/32	2-1/2	97402-00-W
LGN4-2	No. 4	.125	.199	5/32	2-1/2	97404-00-W
LGN6-1	No. 6	.136	.242	3/16	2-1/2	97406-00-W
LGN6-2	No. 6	.150	.242	3/16	2-1/2	97408-00-W
LGN8-1	No. 8	.162	.290	3/16	2-1/2	97410-00-W
LGN8-2	No. 8	.178	.290	3/16	2-1/2	97412-00-W
LGN10-1	No. 10	.188	.332	3/16	2-3/4	97414-00-W
LGN10-2	No. 10	.204	.332	3/16	2-3/4	97416-00-W

### Straight Shank, Short Type

LGS8-1	1/4	1/4	13/32	1/4	3-1/2	97602-00-W
LGS8-2	1/4	17/64	13/32	1/4	3-1/2	97604-00-W
LGS8-3	1/4	9/32	13/32	1/4	3-1/2	97606-00-W
LGS10-1	5/16	5/16	1/2	5/16	3-3/4	97608-00-W
LGS10-2	5/16	21/64	1/2	5/16	3-3/4	97610-00-W
LGS10-3	5/16	11/32	1/2	5/16	3-3/4	97612-00-W
LGS12-1	3/8	3/8	19/32	3/8	4	97614-00-W
LGS12-2	3/8	25/64	19/32	3/8	4	97616-00-W
LGS12-3	3/8	13/32	19/32	3/8	4	97618-00-W
LGS14-1	7/16	7/16	11/16	7/16	4-1/2	97620-00-W
LGS14-2	7/16	29/64	11/16	7/16	4-1/2	97622-00-W
LGS14-3	7/16	17/32	11/16	7/16	4-1/2	97624-00-W
LGS16-1	1/2	1/2	25/32	1/2	5	97626-00-W
LGS16-2	1/2	33/64	25/32	1/2	5	97628-00-W
LGS16-3	1/2	17/32	25/32	1/2	5	97630-00-W

### Straight Shank, Long Type

LGL8-1	1/4	1/4	13/32	3/8	5-1/2	97502-00-W
LGL8-2	1/4	17/64	13/32	3/8	5-1/2	97504-00-W
LGL8-3	1/4	9/32	13/32	3/8	5-1/2	97506-00-W
LGL10-1	5/16	5/16	1/2	3/8	6	97508-00-W
LGL10-2	5/16	21/64	1/2	3/8	6	97510-00-W
LGL10-3	5/16	11/32	1/2	3/8	6	97512-00-W
LGL12-1	3/8	3/8	19/32	1/2	6-1/2	97514-00-W
LGL12-2	3/8	25/64	19/32	1/2	6-1/2	97516-00-W
LGL12-3	3/8	13/32	19/32	1/2	6-1/2	97518-00-W
LGL14-1	7/16	7/16	11/16	1/2	6-3/4	97520-00-W
LGL14-2	7/16	29/64	11/16	1/2	6-3/4	97522-00-W
LGL14-3	7/16	15/32	11/16	1/2	6-3/4	97524-00-W
LGL16-1	1/2	1/2	25/32	1/2	7	97526-00-W
LGL16-2	1/2	33/64	25/32	1/2	7	97528-00-W
LGL16-3	1/2	17/32	25/32	1/2	7	97530-00-W

### No. 1L

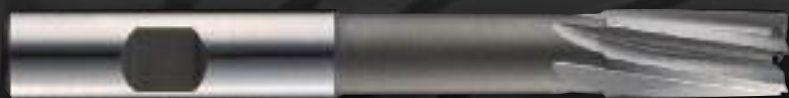
Straight Shanks, Short Type  
LGS8, LGS10, LGS12, LGS14, LGS16  
When ordering, specify pilot sizes 1, 2, or 3  
Set #1L.1P- EDP No. 99014-00-W  
Set #1L.2P- EDP No. 99016-00-W  
Set #1L.3P- EDP No. 99018-00-W



### No. 2L

Straight Shanks, Long Type  
LGL8, LGL10, LGL12, LGL14, LGL16  
When ordering, specify pilot sizes 1, 2, or 3  
Set #2L.1P- EDP No. 99020-00-W  
Set #2L.2P- EDP No. 99022-00-W  
Set #2L.3P- EDP No. 99024-00-W





- Closely Controlled Precision Tolerances
- Right Hand Cut, Right Hand Helix
- High Speed Steel
- Weldon Shank

These reamers are precision cutting tools ground to closely controlled tolerances. Each reamer provides the same high standard of quality built into all Weldon tools.

Part Number	Dia.	Shank	No. of Flutes	OAL	EDP
J4-2	1/8	3/8	4	2-9/16	35010-00-W
J5-2	5/32	3/8	4	2-9/16	35012-00-W
J6-2	3/16	3/8	4	2-13/16	35014-00-W
J7-2	7/32	3/8	4	2-13/16	35016-00-W
J8-2	1/4	3/8	4	3-5/16	35018-00-W
J9-2	9/32	3/8	4	3-5/16	35020-00-W
J10-2	5/16	3/8	6	3-9/16	35022-00-W
J11-2	11/32	3/8	6	3-9/16	35024-00-W
J12-2	3/8	3/8	6	3-9/16	35026-00-W
J13-3	13/32	1/2	6	4-5/16	35028-00-W
J14-3	7/16	1/2	6	4-5/16	35030-00-W
J15-3	15/32	1/2	6	4-5/16	35032-00-W
J16-3	1/2	1/2	6	4-5/16	35034-00-W
J18-3	9/16	1/2	6	4-5/16	35036-00-W
J20-3	5/8	1/2	6	4-5/16	35038-00-W
J22-3	11/16	1/2	6	4-5/16	35040-00-W
J24-3	3/4	1/2	8	4-5/16	35042-00-W
J26-3	13/16	1/2	8	4-5/16	35044-00-W
J28-6	7/8	1/2	8	4-5/16	35046-00-W
J30-3	15/16	1/2	8	4-5/16	35048-00-W
J32-3	1	1/2	8	4-5/16	35050-00-W

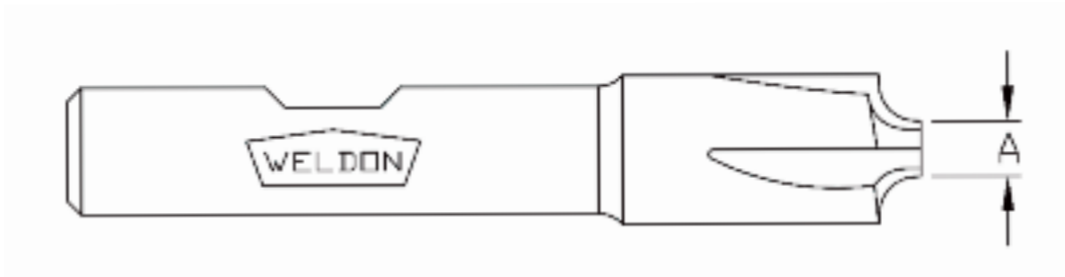


- Two Screw Drive on 7/8" Shanks and Larger

These tools can be adapted for many applications as end forming tools to form a specific radius. The tools are of the form relieved type and are sharpened without changing the form and size of the radius.

### With WELDON Shank, Right Hand Cut only

Part No.	Radius	Dia. of Shank	Largest Dia.	Dimension "A"	OAL	EDP
CR2-2	1/16	3/8	7/16	1/4	2-1/2	35110-00-W
CR3-2	3/32	3/8	1/2	1/4	2-1/2	35112-00-W
CR4-3	1/8	1/2	5/8	1/4	3	35114-00-W
CR5-3	5/32	1/2	3/4	5/16	3	35116-00-W
CR6-3	3/16	1/2	7/8	5/16	2-15/16	35118-00-W
CR8-3	1/4	1/2	1	3/8	3	35120-00-W
CR10-3	5/16	1/2	1-1/8	3/8	3-1/4	35122-00-W
CR12-3	3/8	1/2	1-1/4	3/8	3-1/2	35124-00-W
CR6-5	3/16	3/4	7/8	5/16	3-1/8	35126-00-W
CR8-5	1/4	3/4	1	3/8	3-1/4	35128-00-W
CR10-6	5/16	7/8	1-1/8	3/8	3-1/2	35130-00-W
CR12-6	3/8	7/8	1-1/4	3/8	3-3/4	35132-00-W
CR14-7	7/16	1	1-3/8	3/8	4	35134-00-W
CR16-7	1/2	1	1-1/2	3/8	4-1/8	35136-00-W



For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





- Saws Made From Hardened High Speed Steel
- Precision Tolerances
- For Non-Ferrous and Ferrous Alloys
- Arbors are Made From Tool Steel, One Piece Construction

The hardened High Speed steel hole saws are manufactured to precision tolerances. The hole saw arbors are made from one piece construction of hardened tool steel with precision ground shoulders and threads. The arbors have wrench flats for hole saw removal.

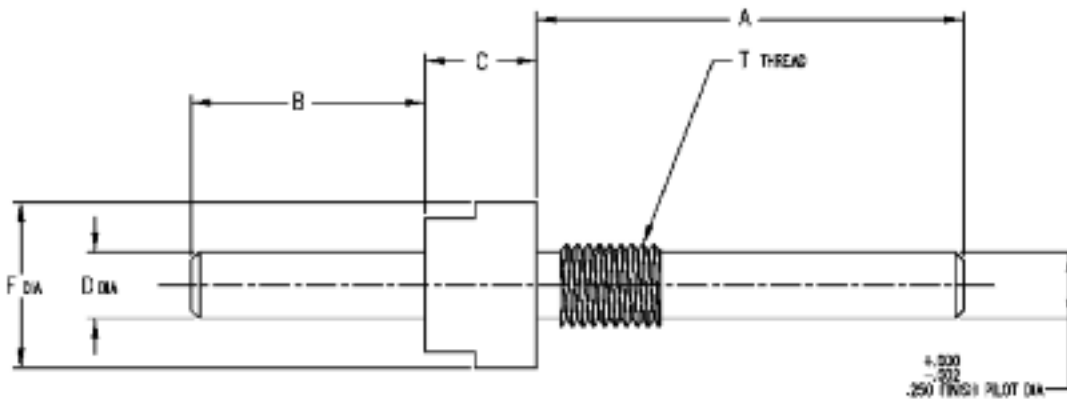
## Hole Saws

Part Number	Saw Dia.	Arbor Thread	Saw Height	EDP
WHS0500	0.500	5/16-24	1.12	88006-00-W
WHS0562	0.562	5/16-24	1.12	88007-00-W
WHS0625	0.625	5/16-24	1.12	88009-00-W
WHS0688	0.688	5/16-24	1.12	88010-00-W
WHS0750	0.750	5/16-24	1.12	88012-00-W
WHS0813	0.813	5/16-24	1.12	88013-00-W
WHS0875	0.875	5/16-24	1.12	88015-00-W
WHS1000	1.000	5/16-24	1.12	88018-00-W
WHS1062	1.062	1/2-20	1.12	88021-00-W
WHS1125	1.125	1/2-20	1.12	88024-00-W
WHS1250	1.250	1/2-20	1.12	88027-00-W
WHS1312	1.312	1/2-20	1.12	88030-00-W

Part Number	Saw Dia.	Arbor Thread	Saw Height	EDP
WHS1375	1.375	1/2-20	1.12	88033-00-W
WHS1500	1.500	1/2-20	1.12	88036-00-W
WHS1625	1.625	1/2-20	1.12	88039-00-W
WHS1688	1.688	1/2-20	1.12	88040-00-W
WHS1750	1.750	1/2-20	1.12	88042-00-W
WHS1875	1.875	1/2-20	1.12	88045-00-W
WHS1938	1.938	1/2-20	1.12	88046-00-W
WHS2000	2.000	1/2-20	1.12	88048-00-W
WHS2125	2.125	1/2-20	1.37	88051-00-W
WHS2250	2.250	1/2-20	1.37	88054-00-W
WHS2375	2.375	1/2-20	1.37	88057-00-W
WHS2500	2.500	1/2-20	1.3	88060-00-W

## Arbors

Part Number	Shank Dia. "D"	Shank Length "B"	Body Dia. "F"	Body Length "C"	Pilot Length "A"	Thread Size "T"	EDP
WHS-A-5	0.25	0.88	0.88	0.48	1.27	5/16-24	88091-00-W
WHS-A-5B	0.25	0.87	0.62	0.42	2.31	5/16-24	88092-00-W
WHS-A-5	0.25	1.13	1.00	0.48	1.64	1/2-20	88090-00-W







### Suggested Cutting Speed for "DB, DC, CSA and CS" Tools.

Materials	Cutting Speed (sfm)*
<b>STEEL</b>	
Up to 240 Brinell (24Rc)	50 - 70
Over 240 to 320 Brinell (24 to 35 Rc)	30 - 50
<b>CAST STEEL</b>	40 - 60
<b>STAINLESS STEEL</b>	30 - 50
<b>CAST IRON</b>	
Regular	60 - 80
Hard	5 - 30
<b>NON-FERROUS</b>	
Brass	150 - 200
Aluminum - Magnesium	150 - 200
Copper	80 - 120
Bronze	
Regular	70 - 90
Hard	20 - 40
<b>TITANIUM</b>	
Unalloyed	40 - 60
Alloyed	30 - 50
<b>ZINCONIUM</b>	40 - 60
<b>HIGH TEMPERATURE ALLOYS</b>	
Ferritic Low Alloys	30 - 50
Austenitic Alloys	15 - 25
Nickel Base Alloys	5 - 15
Cobalt Base Alloys	5 - 10
<b>NON-METALLICS</b>	
Silicon Free	80 - 120
Silicon Containing	20 - 40

\* Surface Feet per Minute (sfm) = RPM x large diameter of countersink in inches x .262

**Note!** Hand feed recommended • Use light feed pressure • Allow tools to cut at its own rate • Always use with suitable cutting lubricant

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.





WELDON®

# Weldon Decimal Table

Fractional	Decimal Inches	Size MM	Fractional	Decimal Inches	Size MM	Fractional	Decimal Inches	Size MM	Fractional	Decimal Inches	Size MM	Fractional	Decimal Inches	Size MM	Fractional	Decimal Inches	Size MM
	0.0135	0.34		0.0591	1.50		0.1200	3.05		0.2055	5.22	<b>11/32</b>	0.3438	8.73		0.5906	15.00
	0.0145	0.37		0.0595	1.51		0.1220	3.10		0.2090	5.31		0.3445	8.75	<b>19/32</b>	0.5938	15.08
<b>1/64</b>	0.0156	0.40	<b>1/16</b>	0.0625	1.59	<b>1/8</b>	0.1250	3.18		0.2130	5.41		0.3480	8.84	<b>39/64</b>	0.6094	15.48
	0.0160	0.41		0.0630	1.60		0.1285	3.26		0.2165	5.50		0.3543	9.00		0.6102	15.50
	0.0180	0.46		0.0635	1.61		0.1299	3.30	<b>7/32</b>	0.2188	5.56		0.3580	9.09	<b>5/8</b>	0.6250	15.86
	0.0197	0.50		0.0650	1.65		0.1339	3.40		0.2210	5.61	<b>23/64</b>	0.3594	9.13		0.6299	16.00
	0.0200	0.51		0.0670	1.70		0.1360	3.45		0.2244	5.70		0.3642	9.25	<b>41/64</b>	0.6406	16.27
	0.0210	0.53		0.0689	1.75		0.1405	3.57		0.2280	5.79		0.3661	9.30		0.6496	16.50
	0.0225	0.57		0.0700	1.76	<b>9/64</b>	0.1406	3.57		0.2340	5.94		0.3680	9.35	<b>21/32</b>	0.6562	16.67
	0.0236	0.60		0.0709	1.80		0.1440	3.66	<b>15/64</b>	0.2344	5.95		0.3701	9.40		0.6693	17.00
	0.0240	0.61		0.0730	1.85		0.1457	3.70		0.2362	6.00	<b>3/8</b>	0.3750	9.53	<b>43/64</b>	0.6719	17.07
	0.0250	0.64		0.0760	1.93		0.1470	3.73		0.2380	6.05		0.3770	9.58	<b>11/16</b>	0.6875	17.46
	0.0260	0.66		0.0768	1.95		0.1476	3.75		0.2420	6.15		0.3860	9.80	<b>45/64</b>	0.7031	17.86
	0.0276	0.70	<b>5/64</b>	0.0781	1.98		0.1495	3.80		0.2460	6.25	<b>25/64</b>	0.3906	9.92		0.7087	18.00
	0.0280	0.71		0.0785	1.99		0.1520	3.86	<b>1/4</b>	0.2500	6.35		0.3937	10.00	<b>23/32</b>	0.7188	18.26
	0.0292	0.74		0.0787	2.00		0.1540	3.91		0.2500	6.35		0.3970	10.08	<b>47/64</b>	0.7344	18.65
	0.0295	0.75		0.0807	2.05	<b>5/32</b>	0.1562	3.97		0.2559	6.50		0.4016	10.20		0.7480	19.00
	0.0310	0.79		0.0810	2.06		0.1570	3.99		0.2570	6.53		0.4040	10.26	<b>3/4</b>	0.7500	19.05
<b>1/32</b>	0.0313	0.80		0.0820	2.08		0.1575	4.00		0.2610	6.63	<b>13/32</b>	0.4062	10.32	<b>49/64</b>	0.7656	19.45
	0.0315	0.80		0.0860	2.18		0.1590	4.04	<b>17/64</b>	0.2656	6.75		0.4130	10.49	<b>25/32</b>	0.7812	19.84
	0.0320	0.81		0.0890	2.26		0.1610	4.09		0.2660	6.76	<b>27/64</b>	0.4219	10.72		0.7874	20.00
	0.0330	0.84		0.0925	2.35		0.1654	4.20		0.2720	6.91		0.4331	11.00	<b>51/64</b>	0.7969	20.24
	0.0350	0.89		0.0935	2.37		0.1660	4.22		0.2756	7.00	<b>7/16</b>	0.4375	11.11	<b>13/16</b>	0.8125	20.64
	0.0354	0.90	<b>3/32</b>	0.0938	2.38		0.1695	4.31		0.2770	7.04		0.4409	11.20		0.8268	21.00
	0.0360	0.91		0.0960	2.44	<b>11/64</b>	0.1719	4.37		0.2810	7.14		0.4488	11.40	<b>53/64</b>	0.8281	21.03
	0.0370	0.94		0.0980	2.49		0.1730	4.39	<b>9/32</b>	0.2812	7.14	<b>29/64</b>	0.4531	11.51	<b>27/32</b>	0.8438	21.43
	0.0380	0.97		0.0984	2.50		0.1770	4.50		0.2854	7.25		0.4646	11.80	<b>55/64</b>	0.8594	21.83
	0.0390	0.99		0.0995	2.53		0.1800	4.57		0.2900	7.37	<b>15/32</b>	0.4688	11.91		0.8661	22.00
	0.0394	1.00		0.1016	2.58		0.1811	4.60		0.2950	7.49		0.4724	12.00	<b>7/8</b>	0.8750	22.23
	0.0400	1.02		0.1024	2.60		0.1820	4.62		0.2953	7.50	<b>31/64</b>	0.4844	12.30	<b>57/64</b>	0.8906	22.62
	0.0410	1.04		0.1040	2.64		0.1850	4.70	<b>19/64</b>	0.2969	7.54		0.4921	12.50		0.9055	23.00
	0.0420	1.07		0.1065	2.71	<b>3/16</b>	0.1875	4.76		0.3020	7.67	<b>1/2</b>	0.5000	12.70	<b>29/32</b>	0.9062	23.02
	0.0430	1.09		0.1083	2.75		0.1890	4.80	<b>5/16</b>	0.3125	7.94		0.5118	13.00	<b>59/64</b>	0.9219	23.42
	0.0465	1.18	<b>7/64</b>	0.1094	2.78		0.1910	4.85		0.3150	8.00	<b>33/64</b>	0.5156	13.10	<b>15/16</b>	0.9375	23.81
<b>3/64</b>	0.0469	1.19		0.1100	2.79		0.1935	4.91		0.3160	8.03	<b>17/32</b>	0.5312	13.49		0.9449	24.00
	0.0472	1.20		0.1102	2.80		0.1960	4.98		0.3230	8.20	<b>35/64</b>	0.5469	13.89	<b>61/64</b>	0.9531	24.21
	0.0492	1.25		0.1110	2.82		0.1968	5.00	<b>21/64</b>	0.3281	8.33		0.5512	14.00	<b>31/32</b>	0.9688	24.61
	0.0520	1.32		0.1130	2.87		0.1990	5.05		0.3320	8.43	<b>9/16</b>	0.5625	14.29		0.9842	25.00
	0.0531	1.35		0.1142	2.90		0.2010	5.11		0.3346	8.50		0.5709	14.50	<b>63/64</b>	0.9844	25.00
	0.0551	1.40		0.1160	2.95	<b>13/64</b>	0.2031	5.16		0.3390	8.61	<b>37/64</b>	0.5781	14.68	<b>1</b>	1.0000	25.40
	0.0571	1.45		0.1181	3.00		0.2040	5.18									

For additional support and for maximum optimization of your Weldon tools, call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



## When requesting quotations for special end mills please specify:

Quantity\* \_\_\_\_\_

Cutting Diameter\* \_\_\_\_\_ Length of Cut\* \_\_\_\_\_

Shank Diameter\* \_\_\_\_\_ Overall Length\* \_\_\_\_\_

Neck Diameter (if applicable) \_\_\_\_\_ Length Below Shank (if applicable) \_\_\_\_\_

Number of Flutes\* \_\_\_\_\_ Helix Angle \_\_\_\_\_ RH or LH\* \_\_\_\_\_

End Type\*      Center Cutting \_\_\_\_\_      Non-Center Cutting \_\_\_\_\_

End Feature\*    Ball End \_\_\_\_\_    Corner Radius \_\_\_\_\_    Corner Chamfer \_\_\_\_\_

Shank Type\*    Plain \_\_\_\_\_    Weldon \_\_\_\_\_    Whistle Notch \_\_\_\_\_    Combo \_\_\_\_\_

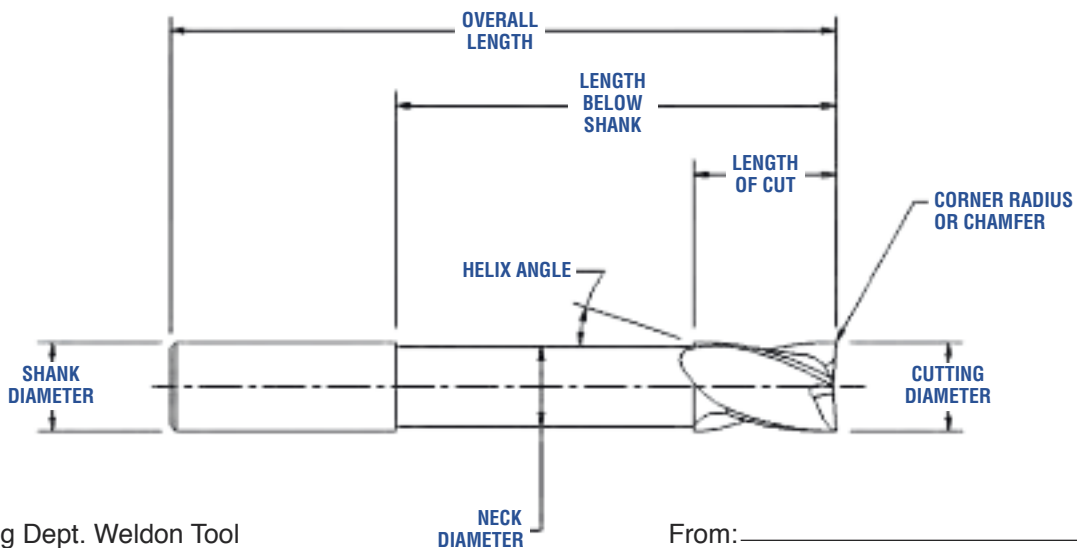
Tool Material\*    HSS \_\_\_\_\_    Cobalt \_\_\_\_\_    Powdered Metal \_\_\_\_\_    Carbide \_\_\_\_\_

Coating\* \_\_\_\_\_

Material Being Cut \_\_\_\_\_      Material Hardness \_\_\_\_\_

Other \_\_\_\_\_

\*Required Information



Engineering Dept. Weldon Tool

FAX: 717-692-5270

From: \_\_\_\_\_

FAX: \_\_\_\_\_

Phone: \_\_\_\_\_

# EDP Number Index, 25202 – 27072

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
25202-00-W	.64	25318-88-W	.62	25356-88-W	.63	25418-00-W	.63	25524-00-W	.63	25710-88-W	.65	27044-88-W	.69
25202-88-W	.64	25318-89-W	.62	25356-89-W	.63	25418-88-W	.63	25524-88-W	.63	25710-89-W	.65	27044-89-W	.69
25202-89-W	.64	25320-00-W	.62	25358-00-W	.63	25418-89-W	.63	25524-89-W	.63	25712-00-W	.65	27046-00-W	.69
25204-00-W	.64	25320-88-W	.62	25358-88-W	.63	25420-00-W	.63	25526-00-W	.63	25712-88-W	.65	27046-88-W	.69
25204-88-W	.64	25320-89-W	.62	25358-89-W	.63	25420-88-W	.63	25526-88-W	.63	25712-89-W	.65	27046-89-W	.69
25204-89-W	.64	25322-00-W	.62	25360-00-W	.63	25420-89-W	.63	25526-89-W	.63	25714-00-W	.65	27048-00-W	.69
25206-00-W	.64	25322-88-W	.62	25360-88-W	.63	25422-00-W	.63	25528-00-W	.63	25714-88-W	.65	27048-88-W	.69
25206-88-W	.64	25322-89-W	.62	25360-89-W	.63	25422-88-W	.63	25528-88-W	.63	25714-89-W	.65	27048-89-W	.69
25206-89-W	.64	25324-00-W	.62	25362-00-W	.63	25422-89-W	.63	25528-89-W	.63	25716-00-W	.65	27050-00-W	.69
25208-00-W	.64	25324-88-W	.62	25362-88-W	.63	25424-00-W	.63	25530-00-W	.63	25716-88-W	.65	27050-88-W	.69
25208-88-W	.64	25324-89-W	.62	25362-89-W	.63	25424-88-W	.63	25532-00-W	.63	25716-89-W	.65	27050-89-W	.69
25208-89-W	.64	25326-00-W	.62	25364-00-W	.63	25424-89-W	.63	25602-00-W	.62	25718-00-W	.65	27052-00-W	.69
25210-00-W	.64	25326-88-W	.62	25364-88-W	.63	25426-00-W	.63	25602-88-W	.62	25718-88-W	.65	27052-88-W	.69
25210-88-W	.64	25326-89-W	.62	25364-89-W	.63	25426-88-W	.63	25602-89-W	.62	25718-89-W	.65	27052-89-W	.69
25210-89-W	.64	25328-00-W	.62	25366-00-W	.63	25426-89-W	.63	25604-00-W	.62	25902-00-W	.66	27054-00-W	.69
25212-00-W	.64	25328-88-W	.62	25366-88-W	.63	25428-00-W	.63	25604-88-W	.62	25902-88-W	.66	27054-88-W	.69
25212-88-W	.64	25328-89-W	.62	25366-89-W	.63	25428-88-W	.63	25604-89-W	.62	25902-89-W	.66	27054-89-W	.69
25212-89-W	.64	25330-00-W	.62	25368-00-W	.63	25428-89-W	.63	25606-00-W	.62	25904-00-W	.66	27056-00-W	.69
25302-00-W	.62	25330-88-W	.62	25368-88-W	.63	25502-00-W	.62	25606-88-W	.62	25904-88-W	.66	27056-88-W	.69
25302-88-W	.62	25330-89-W	.62	25368-89-W	.63	25502-88-W	.62	25606-89-W	.62	25904-89-W	.66	27056-89-W	.69
25304-00-W	.62	25332-00-W	.62	25372-00-W	.63	25502-89-W	.62	25608-00-W	.62	25906-00-W	.66	27058-00-W	.69
25304-88-W	.62	25332-88-W	.62	25372-88-W	.63	25504-00-W	.62	25608-88-W	.62	25906-88-W	.66	27058-88-W	.69
25304-89-W	.62	25332-89-W	.62	25372-89-W	.63	25504-88-W	.62	25608-89-W	.62	25906-89-W	.66	27058-89-W	.69
25306-00-W	.62	25334-00-W	.62	25374-00-W	.63	25504-89-W	.62	25610-00-W	.62	25908-00-W	.66	27060-00-W	.69
25306-88-W	.62	25334-88-W	.62	25376-00-W	.63	25506-00-W	.62	25610-88-W	.62	25908-88-W	.66	27060-88-W	.69
25306-89-W	.62	25334-89-W	.62	25378-00-W	.63	25506-88-W	.62	25610-89-W	.62	25908-89-W	.66	27060-89-W	.69
25308-00-W	.62	25336-00-W	.62	25380-00-W	.63	25506-89-W	.62	25612-00-W	.63	25910-00-W	.66	27062-00-W	.69
25308-88-W	.62	25336-88-W	.62	25402-00-W	.62	25508-00-W	.62	25612-88-W	.63	25910-88-W	.66	27062-88-W	.69
25308-89-W	.62	25336-89-W	.62	25402-88-W	.62	25508-88-W	.62	25612-89-W	.63	25910-89-W	.66	27062-89-W	.69
25310-00-W	.62	25338-00-W	.62	25402-89-W	.62	25508-89-W	.62	25702-00-W	.65	25912-00-W	.66	27064-00-W	.69
25310-88-W	.62	25338-88-W	.62	25404-00-W	.62	25510-00-W	.62	25702-88-W	.65	25912-88-W	.66	27064-88-W	.69
25310-89-W	.62	25338-89-W	.62	25404-88-W	.62	25510-88-W	.62	25702-89-W	.65	25912-89-W	.66	27064-89-W	.69
25312-00-W	.62	25340-00-W	.62	25404-89-W	.62	25510-89-W	.62	25704-00-W	.65	25914-00-W	.66	27066-00-W	.69
25312-88-W	.62	25340-88-W	.62	25406-00-W	.62	25518-00-W	.63	25704-88-W	.65	25914-88-W	.66	27066-88-W	.69
25312-89-W	.62	25340-89-W	.62	25406-88-W	.62	25518-88-W	.63	25704-89-W	.65	25914-89-W	.66	27066-89-W	.69
25314-00-W	.62	25352-00-W	.63	25406-89-W	.62	25518-89-W	.63	25706-00-W	.65	27040-00-W	.69	27068-00-W	.69
25314-88-W	.62	25352-88-W	.63	25408-00-W	.62	25520-00-W	.63	25706-88-W	.65	27040-88-W	.69	27068-88-W	.69
25314-89-W	.62	25352-89-W	.63	25408-88-W	.62	25520-88-W	.63	25706-89-W	.65	27040-89-W	.69	27068-89-W	.69
25316-00-W	.62	25354-00-W	.63	25408-89-W	.62	25520-89-W	.63	25708-00-W	.65	27042-00-W	.69	27070-00-W	.69
25316-88-W	.62	25354-88-W	.63	25410-00-W	.62	25522-00-W	.63	25708-88-W	.65	27042-88-W	.69	27070-88-W	.69
25316-89-W	.62	25354-89-W	.63	25410-88-W	.62	25522-88-W	.63	25708-89-W	.65	27042-89-W	.69	27070-89-W	.69
25318-00-W	.62	25356-00-W	.63	25410-89-W	.62	25522-89-W	.63	25710-00-W	.65	27044-00-W	.69	27072-00-W	.69



# EDP Number Index, 27072–31068

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
27072-88-W	.69	27614-88-W	.83	27710-88-W	.83	28222-88-W	.80	28504-88-W	.80	28802-88-W	.81	31040-88-W	.70
27072-89-W	.69	27614-89-W	.83	27710-89-W	.83	28222-88-W	.80	28504-88-W	.80	28802-89-W	.81	31040-89-W	.70
27140-00-W	.69	27616-00-W	.83	28002-00-W	.80	28224-00-W	.80	28506-00-W	.80	28804-00-W	.81	31042-00-W	.70
27140-88-W	.69	27616-88-W	.83	28002-88-W	.80	28224-88-W	.80	28506-88-W	.80	28804-88-W	.81	31042-88-W	.70
27140-89-W	.69	27616-89-W	.83	28002-88-W	.80	28224-88-W	.80	28506-88-W	.80	28804-89-W	.81	31042-89-W	.70
27142-00-W	.69	27618-00-W	.83	28004-00-W	.80	28226-00-W	.80	28508-00-W	.80	28806-00-W	.81	31044-00-W	.70
27142-88-W	.69	27618-88-W	.83	28004-88-W	.80	28226-88-W	.80	28508-88-W	.80	28806-88-W	.81	31044-88-W	.70
27142-89-W	.69	27618-89-W	.83	28004-88-W	.80	28226-88-W	.80	28508-88-W	.80	28806-88-W	.81	31044-89-W	.70
27144-00-W	.69	27620-00-W	.83	28006-00-W	.80	28228-00-W	.80	28510-00-W	.80	28808-00-W	.81	31046-00-W	.70
27144-88-W	.69	27620-88-W	.83	28006-88-W	.80	28228-88-W	.80	28510-88-W	.80	28808-88-W	.81	31046-88-W	.70
27144-89-W	.69	27620-89-W	.83	28006-88-W	.80	28228-88-W	.80	28510-88-W	.80	28808-89-W	.81	31046-89-W	.70
27146-00-W	.69	27622-00-W	.83	28202-00-W	.80	28230-00-W	.80	28602-00-W	.82	31020-00-W	.70	31048-00-W	.70
27146-88-W	.69	27622-88-W	.83	28202-88-W	.80	28230-88-W	.80	28602-88-W	.82	31020-88-W	.70	31048-88-W	.70
27146-89-W	.69	27622-89-W	.83	28202-88-W	.80	28230-88-W	.80	28602-89-W	.82	31020-89-W	.70	31048-89-W	.70
27148-00-W	.69	27624-00-W	.83	28204-00-W	.80	28232-00-W	.80	28604-00-W	.82	31022-00-W	.70	31050-00-W	.70
27148-88-W	.69	27624-88-W	.83	28204-88-W	.80	28232-88-W	.80	28604-88-W	.82	31022-88-W	.70	31050-88-W	.70
27148-89-W	.69	27624-89-W	.83	28204-88-W	.80	28232-88-W	.80	28604-89-W	.82	31022-89-W	.70	31050-89-W	.70
27150-00-W	.69	27626-00-W	.83	28206-00-W	.80	28234-00-W	.80	28606-00-W	.82	31024-00-W	.70	31052-00-W	.70
27150-88-W	.69	27626-88-W	.83	28206-88-W	.80	28234-88-W	.80	28606-88-W	.82	31024-88-W	.70	31052-88-W	.70
27150-89-W	.69	27626-89-W	.83	28206-88-W	.80	28234-88-W	.80	28606-89-W	.82	31024-89-W	.70	31052-89-W	.70
27152-00-W	.69	27628-00-W	.83	28208-00-W	.80	28236-00-W	.80	28608-00-W	.82	31026-00-W	.70	31054-00-W	.70
27152-88-W	.69	27628-88-W	.83	28208-88-W	.80	28236-88-W	.80	28608-88-W	.82	31026-88-W	.70	31054-88-W	.70
27152-89-W	.69	27628-89-W	.83	28208-88-W	.80	28236-88-W	.80	28608-89-W	.82	31026-89-W	.70	31054-89-W	.70
27602-00-W	.83	27630-00-W	.83	28210-00-W	.80	28238-00-W	.80	28610-00-W	.82	31028-00-W	.70	31056-00-W	.70
27602-88-W	.83	27630-88-W	.83	28210-88-W	.80	28238-88-W	.80	28610-88-W	.82	31028-88-W	.70	31056-88-W	.70
27602-89-W	.83	27630-89-W	.83	28210-88-W	.80	28238-88-W	.80	28610-89-W	.82	31028-89-W	.70	31056-89-W	.70
27604-00-W	.83	27632-00-W	.83	28212-00-W	.80	28240-00-W	.80	28702-00-W	.82	31030-00-W	.70	31058-00-W	.70
27604-88-W	.83	27632-88-W	.83	28212-88-W	.80	28240-88-W	.80	28702-88-W	.82	31030-88-W	.70	31058-88-W	.70
27604-89-W	.83	27632-89-W	.83	28212-88-W	.80	28240-88-W	.80	28702-89-W	.82	31030-89-W	.70	31058-89-W	.70
27606-00-W	.83	27702-00-W	.83	28214-00-W	.80	28242-00-W	.80	28704-00-W	.82	31032-00-W	.70	31060-00-W	.70
27606-88-W	.83	27702-88-W	.83	28214-88-W	.80	28242-88-W	.80	28704-88-W	.82	31032-88-W	.70	31060-88-W	.70
27606-89-W	.83	27702-89-W	.83	28214-88-W	.80	28242-88-W	.80	28704-89-W	.82	31032-89-W	.70	31060-89-W	.70
27608-00-W	.83	27704-00-W	.83	28216-00-W	.80	28302-00-W	.80	28706-00-W	.82	31034-00-W	.70	31062-00-W	.70
27608-88-W	.83	27704-88-W	.83	28216-88-W	.80	28302-88-W	.80	28706-88-W	.82	31034-88-W	.70	31062-88-W	.70
27608-89-W	.83	27704-89-W	.83	28216-88-W	.80	28302-88-W	.80	28706-89-W	.82	31034-89-W	.70	31062-89-W	.70
27610-00-W	.83	27706-00-W	.83	28218-00-W	.80	28402-00-W	.80	28708-00-W	.82	31036-00-W	.70	31064-00-W	.70
27610-88-W	.83	27706-88-W	.83	28218-88-W	.80	28402-88-W	.80	28708-88-W	.82	31036-88-W	.70	31064-88-W	.70
27610-89-W	.83	27706-89-W	.83	28218-88-W	.80	28402-88-W	.80	28708-89-W	.82	31036-89-W	.70	31064-89-W	.70
27612-00-W	.83	27708-00-W	.83	28220-00-W	.80	28502-00-W	.80	28710-00-W	.82	31038-00-W	.70	31066-00-W	.70
27612-88-W	.83	27708-88-W	.83	28220-88-W	.80	28502-88-W	.80	28710-88-W	.82	31038-88-W	.70	31066-88-W	.70
27612-89-W	.83	27708-89-W	.83	28220-88-W	.80	28502-88-W	.80	28710-89-W	.82	31038-89-W	.70	31066-89-W	.70
27614-00-W	.83	27710-00-W	.83	28222-00-W	.80	28504-00-W	.80	28802-00-W	.81	31040-00-W	.70	31068-00-W	.70

# EDP Number Index, 31068–41946

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
31068-88-W	.70	32010-00-W	.84	35010-00-W	.101	41414-88-W	.71	41538-88-W	.72	41566-88-W	.73	41748-00-W	.73
31068-89-W	.70	32010-88-W	.84	35012-00-W	.101	41414-89-W	.71	41538-89-W	.72	41566-89-W	.73	41830-00-W	.72
31070-00-W	.70	32010-89-W	.84	35014-00-W	.101	41416-00-W	.71	41540-00-W	.72	41568-00-W	.73	41830-88-W	.72
31072-00-W	.70	32012-00-W	.84	35016-00-W	.101	41416-88-W	.71	41540-88-W	.72	41568-88-W	.73	41830-89-W	.72
31074-00-W	.70	32012-88-W	.84	35018-00-W	.101	41416-89-W	.71	41540-89-W	.72	41568-89-W	.73	41832-00-W	.72
31120-00-W	.70	32012-89-W	.84	35020-00-W	.101	41418-00-W	.71	41542-00-W	.72	41570-00-W	.73	41832-88-W	.72
31120-88-W	.70	32014-00-W	.84	35022-00-W	.101	41418-88-W	.71	41542-88-W	.72	41630-00-W	.72	41832-89-W	.72
31120-89-W	.70	32014-88-W	.84	35024-00-W	.101	41418-89-W	.71	41542-89-W	.72	41630-88-W	.72	41834-00-W	.72
31122-00-W	.70	32014-89-W	.84	35026-00-W	.101	41420-00-W	.71	41544-00-W	.72	41630-89-W	.72	41834-88-W	.72
31122-88-W	.70	32016-00-W	.84	35028-00-W	.101	41420-88-W	.71	41544-88-W	.72	41632-00-W	.73	41834-89-W	.72
31122-89-W	.70	32016-88-W	.84	35030-00-W	.101	41420-89-W	.71	41544-89-W	.72	41632-88-W	.73	41836-00-W	.72
31124-00-W	.70	32016-89-W	.84	35032-00-W	.101	41422-00-W	.71	41546-00-W	.72	41632-89-W	.73	41836-88-W	.72
31124-88-W	.70	32018-00-W	.84	35034-00-W	.101	41422-88-W	.71	41546-88-W	.72	41634-00-W	.73	41836-89-W	.72
31124-89-W	.70	32018-88-W	.84	35036-00-W	.101	41422-89-W	.71	41546-89-W	.72	41634-88-W	.73	41838-00-W	.72
31126-00-W	.70	32018-89-W	.84	35038-00-W	.101	41424-00-W	.71	41548-00-W	.72	41634-89-W	.73	41838-88-W	.72
31126-88-W	.70	32020-00-W	.84	35040-00-W	.101	41424-88-W	.71	41548-88-W	.72	41730-00-W	.72	41838-89-W	.72
31126-89-W	.70	32020-88-W	.84	35042-00-W	.101	41424-89-W	.71	41548-89-W	.72	41730-88-W	.72	41930-00-W	.72
31128-00-W	.70	32020-89-W	.84	35044-00-W	.101	41426-00-W	.71	41550-00-W	.72	41730-89-W	.72	41930-88-W	.72
31128-88-W	.70	32022-00-W	.84	35046-00-W	.101	41426-88-W	.71	41550-88-W	.72	41732-00-W	.72	41930-89-W	.72
31128-89-W	.70	32022-88-W	.84	35048-00-W	.101	41426-89-W	.71	41550-89-W	.72	41732-88-W	.72	41932-00-W	.72
31130-00-W	.70	32022-89-W	.84	35050-00-W	.101	41428-00-W	.71	41552-00-W	.72	41732-89-W	.72	41932-88-W	.72
31130-88-W	.70	32024-00-W	.84	35110-00-W	.102	41428-88-W	.71	41552-88-W	.72	41734-00-W	.72	41932-89-W	.72
31130-89-W	.70	32024-88-W	.84	35112-00-W	.102	41428-89-W	.71	41552-89-W	.72	41734-88-W	.72	41934-00-W	.72
31132-00-W	.70	32024-89-W	.84	35114-00-W	.102	41430-00-W	.71	41554-00-W	.72	41734-89-W	.72	41934-88-W	.72
31132-88-W	.70	32026-00-W	.84	35116-00-W	.102	41430-88-W	.71	41554-88-W	.72	41736-00-W	.72	41934-89-W	.72
31132-89-W	.70	32026-88-W	.84	35118-00-W	.102	41430-89-W	.71	41554-89-W	.72	41736-88-W	.72	41936-00-W	.72
31134-00-W	.70	32026-89-W	.84	35120-00-W	.102	41432-00-W	.71	41556-00-W	.72	41736-89-W	.72	41936-88-W	.72
31134-88-W	.70	32028-00-W	.84	35122-00-W	.102	41432-88-W	.71	41556-88-W	.72	41738-00-W	.72	41936-89-W	.72
31134-89-W	.70	32028-88-W	.84	35124-00-W	.102	41432-89-W	.71	41556-89-W	.72	41738-88-W	.72	41938-00-W	.72
31136-00-W	.70	32028-89-W	.84	35126-00-W	.102	41530-00-W	.72	41558-00-W	.72	41738-89-W	.72	41938-88-W	.72
31136-88-W	.70	32030-00-W	.84	35128-00-W	.102	41530-88-W	.72	41558-88-W	.72	41740-00-W	.72	41938-89-W	.72
31136-89-W	.70	32030-88-W	.84	35130-00-W	.102	41530-89-W	.72	41558-89-W	.72	41740-88-W	.72	41940-00-W	.72
31138-00-W	.70	32030-89-W	.84	35132-00-W	.102	41532-00-W	.72	41560-00-W	.72	41740-89-W	.72	41940-88-W	.72
31138-88-W	.70	32110-00-W	.84	35134-00-W	.102	41532-88-W	.72	41560-88-W	.72	41742-00-W	.73	41940-89-W	.72
31138-89-W	.70	32110-88-W	.84	35136-00-W	.102	41532-89-W	.72	41560-89-W	.72	41742-88-W	.73	41942-00-W	.73
31140-00-W	.70	32110-89-W	.84	41410-00-W	.71	41534-00-W	.72	41562-00-W	.73	41742-89-W	.73	41942-88-W	.73
31140-88-W	.70	32112-00-W	.84	41410-88-W	.71	41534-88-W	.72	41562-88-W	.73	41744-00-W	.73	41942-89-W	.73
31140-89-W	.70	32112-88-W	.84	41410-89-W	.71	41534-89-W	.72	41562-89-W	.73	41744-88-W	.73	41944-00-W	.73
31142-00-W	.70	32112-89-W	.84	41412-00-W	.71	41536-00-W	.72	41564-00-W	.73	41744-89-W	.73	41944-88-W	.73
31144-00-W	.70	32114-00-W	.84	41412-88-W	.71	41536-88-W	.72	41564-88-W	.73	41746-00-W	.73	41944-89-W	.73
31146-00-W	.70	32114-88-W	.84	41412-89-W	.71	41536-89-W	.72	41564-89-W	.73	41746-88-W	.73	41946-00-W	.73
31148-00-W	.70	32114-89-W	.84	41414-00-W	.71	41538-00-W	.72	41566-00-W	.73	41746-89-W	.73	41946-88-W	.73

# EDP Number Index, 41946–44316

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
41946-89-W	.73	42110-88-W	.72	42222-00-W	.73	42658-00-W	.74	42940-00-W	.74	44114-89-W	.85	44140-89-W	.86
41948-00-W	.73	42110-89-W	.72	42224-00-W	.73	42658-88-W	.74	42940-88-W	.74	44116-00-W	.85	44142-00-W	.86
41948-88-W	.73	42112-00-W	.73	42226-00-W	.73	42658-89-W	.74	42940-89-W	.74	44116-88-W	.85	44142-88-W	.86
41948-89-W	.73	42112-88-W	.73	42340-00-W	.73	42660-00-W	.74	42942-00-W	.74	44116-89-W	.85	44142-89-W	.86
41950-00-W	.73	42112-89-W	.73	42340-88-W	.73	42660-88-W	.74	42942-88-W	.74	44118-00-W	.85	44144-00-W	.86
41950-88-W	.73	42114-00-W	.73	42340-89-W	.73	42660-89-W	.74	42942-89-W	.74	44118-88-W	.85	44144-88-W	.86
41950-89-W	.73	42114-88-W	.73	42342-00-W	.73	42740-00-W	.74	42944-00-W	.74	44118-89-W	.85	44144-89-W	.86
41952-00-W	.73	42114-89-W	.73	42342-88-W	.73	42740-88-W	.74	42944-88-W	.74	44120-00-W	.85	44146-00-W	.86
41952-88-W	.73	42116-00-W	.73	42342-89-W	.73	42740-89-W	.74	42944-89-W	.74	44120-88-W	.85	44146-88-W	.86
41952-89-W	.73	42116-88-W	.73	42344-00-W	.73	42742-00-W	.74	42946-00-W	.74	44120-89-W	.85	44146-89-W	.86
41954-00-W	.73	42116-89-W	.73	42346-00-W	.73	42742-88-W	.74	42946-88-W	.74	44122-00-W	.85	44148-00-W	.86
41954-88-W	.73	42118-00-W	.73	42348-00-W	.73	42742-89-W	.74	42946-89-W	.74	44122-88-W	.85	44148-88-W	.86
41954-89-W	.73	42118-88-W	.73	42352-00-W	.73	42744-00-W	.74	42948-00-W	.74	44122-89-W	.85	44148-89-W	.86
41956-00-W	.73	42118-89-W	.73	42354-00-W	.73	42744-88-W	.74	42948-88-W	.74	44124-00-W	.85	44240-00-W	.85
41956-88-W	.73	42120-00-W	.73	42356-00-W	.73	42744-89-W	.74	42948-89-W	.74	44124-88-W	.85	44240-88-W	.85
41956-89-W	.73	42120-88-W	.73	42640-00-W	.74	42840-00-W	.74	42950-00-W	.74	44124-89-W	.85	44240-89-W	.85
41958-00-W	.73	42120-89-W	.73	42640-88-W	.74	42840-88-W	.74	42950-88-W	.74	44126-00-W	.85	44242-00-W	.85
41958-88-W	.73	42122-00-W	.73	42640-89-W	.74	42840-89-W	.74	42950-89-W	.74	44126-88-W	.85	44242-88-W	.85
41958-89-W	.73	42122-88-W	.73	42642-00-W	.74	42842-00-W	.74	42952-00-W	.74	44126-89-W	.85	44242-89-W	.85
41960-00-W	.73	42122-89-W	.73	42642-88-W	.74	42842-88-W	.74	42952-88-W	.74	44128-00-W	.85	44244-00-W	.86
41960-88-W	.73	42124-00-W	.73	42642-89-W	.74	42842-89-W	.74	42952-89-W	.74	44128-88-W	.85	44244-88-W	.86
41960-89-W	.73	42124-88-W	.73	42644-00-W	.74	42844-00-W	.74	42954-00-W	.74	44128-89-W	.85	44244-89-W	.86
41962-00-W	.73	42124-89-W	.73	42644-88-W	.74	42844-88-W	.74	42956-00-W	.74	44130-00-W	.85	44246-00-W	.86
41962-88-W	.73	42126-00-W	.73	42644-89-W	.74	42844-89-W	.74	42958-00-W	.74	44130-88-W	.85	44246-88-W	.86
41962-89-W	.73	42126-88-W	.73	42646-00-W	.74	42846-00-W	.74	42960-00-W	.74	44130-89-W	.85	44246-89-W	.86
41964-00-W	.73	42126-89-W	.73	42646-88-W	.74	42846-88-W	.74	44010-00-W	.85	44132-00-W	.85	44248-00-W	.86
41964-88-W	.73	42128-00-W	.73	42646-89-W	.74	42846-89-W	.74	44010-88-W	.85	44132-88-W	.85	44248-88-W	.86
41964-89-W	.73	42128-88-W	.73	42648-00-W	.74	42848-00-W	.74	44010-89-W	.85	44132-89-W	.85	44248-89-W	.86
41966-00-W	.73	42128-89-W	.73	42648-88-W	.74	42848-88-W	.74	44012-00-W	.85	44134-00-W	.85	44250-00-W	.86
41968-00-W	.73	42130-00-W	.73	42648-89-W	.74	42848-89-W	.74	44012-88-W	.85	44134-88-W	.85	44250-88-W	.86
41970-00-W	.73	42210-00-W	.73	42650-00-W	.74	42850-00-W	.74	44012-89-W	.85	44134-89-W	.85	44250-89-W	.86
41972-00-W	.73	42210-88-W	.73	42650-88-W	.74	42850-88-W	.74	44014-00-W	.85	44136-00-W	.85	44310-00-W	.85
41974-00-W	.73	42210-89-W	.73	42650-89-W	.74	42850-89-W	.74	44014-88-W	.85	44136-88-W	.85	44310-88-W	.85
41976-00-W	.73	42212-00-W	.73	42652-00-W	.74	42852-00-W	.74	44014-89-W	.85	44136-89-W	.85	44310-89-W	.85
41978-00-W	.73	42212-88-W	.73	42652-88-W	.74	42852-88-W	.74	44110-00-W	.85	44138-00-W	.85	44312-00-W	.85
42030-00-W	.73	42212-89-W	.73	42652-89-W	.74	42852-89-W	.74	44110-88-W	.85	44138-88-W	.85	44312-88-W	.85
42030-88-W	.73	42214-00-W	.73	42654-00-W	.74	42854-00-W	.74	44110-89-W	.85	44138-89-W	.85	44312-89-W	.85
42030-89-W	.73	42214-88-W	.73	42654-88-W	.74	42854-88-W	.74	44112-00-W	.85	44140-00-W	.85	44314-00-W	.85
42032-00-W	.73	42214-89-W	.73	42654-89-W	.74	42854-89-W	.74	44112-88-W	.85	44140-00-W	.86	44314-88-W	.85
42032-88-W	.73	42216-00-W	.73	42656-00-W	.74	42856-00-W	.74	44112-89-W	.85	44140-88-W	.85	44314-89-W	.85
42032-89-W	.73	42218-00-W	.73	42656-88-W	.74	42856-88-W	.74	44114-00-W	.85	44140-88-W	.86	44316-00-W	.85
42110-00-W	.72	42220-00-W	.73	42656-89-W	.74	42856-89-W	.74	44114-88-W	.85	44140-89-W	.85	44316-88-W	.85

# EDP Number Index, 44316–47532

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
44316-89-W	.85	44422-89-W	.86	44644-89-W	.86	44910-89-W	.87	47150-89-W	.75	47178-89-W	.75	47254-89-W	.75
44318-00-W	.85	44424-00-W	.86	44646-00-W	.86	44912-00-W	.87	47152-00-W	.75	47180-00-W	.75	47256-00-W	.75
44318-88-W	.85	44424-88-W	.86	44646-88-W	.86	44912-88-W	.87	47152-88-W	.75	47180-88-W	.75	47256-88-W	.75
44318-89-W	.85	44424-89-W	.86	44646-89-W	.86	44912-89-W	.87	47152-89-W	.75	47180-89-W	.75	47256-89-W	.75
44320-00-W	.86	44426-00-W	.86	44648-00-W	.86	44914-00-W	.87	47154-00-W	.75	47182-00-W	.75	47258-00-W	.75
44320-88-W	.86	44426-88-W	.86	44648-88-W	.86	44914-88-W	.87	47154-88-W	.75	47182-88-W	.75	47258-88-W	.75
44320-89-W	.86	44426-89-W	.86	44648-89-W	.86	44914-89-W	.87	47154-89-W	.75	47182-89-W	.75	47258-89-W	.75
44322-00-W	.86	44428-00-W	.86	44740-00-W	.86	44916-00-W	.87	47156-00-W	.75	47184-00-W	.75	47510-00-W	.87
44322-88-W	.86	44428-88-W	.86	44740-88-W	.86	44916-88-W	.87	47156-88-W	.75	47184-88-W	.75	47510-88-W	.87
44322-89-W	.86	44428-89-W	.86	44740-89-W	.86	44916-89-W	.87	47156-89-W	.75	47184-89-W	.75	47510-89-W	.87
44324-00-W	.86	44540-00-W	.85	44742-00-W	.86	47130-00-W	.75	47158-00-W	.75	47186-00-W	.75	47512-00-W	.87
44324-88-W	.86	44540-88-W	.85	44742-88-W	.86	47130-88-W	.75	47158-88-W	.75	47186-88-W	.75	47512-88-W	.87
44324-89-W	.86	44540-89-W	.85	44742-89-W	.86	47130-89-W	.75	47158-89-W	.75	47186-89-W	.75	47512-89-W	.87
44326-00-W	.86	44542-00-W	.85	44744-00-W	.86	47132-00-W	.75	47160-00-W	.75	47188-00-W	.69	47514-00-W	.87
44326-88-W	.86	44542-88-W	.85	44744-88-W	.86	47132-88-W	.75	47160-88-W	.75	47188-88-W	.69	47514-88-W	.87
44326-89-W	.86	44542-89-W	.85	44744-89-W	.86	47132-89-W	.75	47160-89-W	.75	47188-89-W	.69	47514-89-W	.87
44328-00-W	.86	44544-00-W	.85	44746-00-W	.86	47134-00-W	.75	47162-00-W	.75	47190-00-W	.69	47516-00-W	.87
44328-88-W	.86	44544-00-W	.86	44746-88-W	.86	47134-88-W	.75	47162-88-W	.75	47190-88-W	.69	47516-88-W	.87
44328-89-W	.86	44544-88-W	.85	44746-89-W	.86	47134-89-W	.75	47162-89-W	.75	47190-89-W	.69	47516-89-W	.87
44330-00-W	.86	44544-88-W	.86	44748-00-W	.86	47136-00-W	.75	47164-00-W	.75	47240-00-W	.75	47518-00-W	.87
44330-88-W	.86	44544-89-W	.85	44748-88-W	.86	47136-88-W	.75	47164-88-W	.75	47240-88-W	.75	47518-88-W	.87
44330-89-W	.86	44544-89-W	.86	44748-89-W	.86	47136-89-W	.75	47164-89-W	.75	47240-89-W	.75	47518-89-W	.87
44410-00-W	.85	44546-00-W	.86	44750-00-W	.86	47138-00-W	.75	47166-00-W	.75	47242-00-W	.75	47520-00-W	.87
44410-88-W	.85	44546-88-W	.86	44750-88-W	.86	47138-88-W	.75	47166-88-W	.75	47242-88-W	.75	47520-88-W	.87
44410-89-W	.85	44546-89-W	.86	44750-89-W	.86	47138-89-W	.75	47166-89-W	.75	47242-89-W	.75	47520-89-W	.87
44412-00-W	.85	44548-00-W	.86	44840-00-W	.86	47140-00-W	.75	47168-00-W	.75	47244-00-W	.75	47522-00-W	.87
44412-88-W	.85	44548-88-W	.86	44840-88-W	.86	47140-88-W	.75	47168-88-W	.75	47244-88-W	.75	47522-88-W	.87
44412-89-W	.85	44548-89-W	.86	44840-89-W	.86	47140-89-W	.75	47168-89-W	.75	47244-89-W	.75	47522-89-W	.87
44414-00-W	.85	44550-00-W	.86	44842-00-W	.86	47142-00-W	.75	47170-00-W	.75	47246-00-W	.75	47524-00-W	.87
44414-88-W	.85	44550-88-W	.86	44842-88-W	.86	47142-88-W	.75	47170-88-W	.75	47246-88-W	.75	47524-88-W	.87
44414-89-W	.85	44550-89-W	.86	44842-89-W	.86	47142-89-W	.75	47170-89-W	.75	47246-89-W	.75	47524-89-W	.87
44416-00-W	.85	44552-00-W	.86	44844-00-W	.86	47144-00-W	.75	47172-00-W	.75	47248-00-W	.75	47526-00-W	.87
44416-88-W	.85	44552-88-W	.86	44844-88-W	.86	47144-88-W	.75	47172-88-W	.75	47248-88-W	.75	47526-88-W	.87
44416-89-W	.85	44552-89-W	.86	44844-89-W	.86	47144-89-W	.75	47172-89-W	.75	47248-89-W	.75	47526-89-W	.87
44418-00-W	.85	44640-00-W	.86	44846-00-W	.86	47146-00-W	.75	47174-00-W	.75	47250-00-W	.75	47528-00-W	.87
44418-88-W	.85	44640-88-W	.86	44846-88-W	.86	47146-88-W	.75	47174-88-W	.75	47250-88-W	.75	47528-88-W	.87
44418-89-W	.85	44640-89-W	.86	44846-89-W	.86	47146-89-W	.75	47174-89-W	.75	47250-89-W	.75	47528-89-W	.87
44420-00-W	.86	44642-00-W	.86	44848-00-W	.86	47148-00-W	.75	47176-00-W	.75	47252-00-W	.75	47530-00-W	.87
44420-88-W	.86	44642-88-W	.86	44848-88-W	.86	47148-88-W	.75	47176-88-W	.75	47252-88-W	.75	47530-88-W	.87
44420-89-W	.86	44642-89-W	.86	44848-89-W	.86	47148-89-W	.75	47176-89-W	.75	47252-89-W	.75	47530-89-W	.87
44422-00-W	.86	44644-00-W	.86	44910-00-W	.87	47150-00-W	.75	47178-00-W	.75	47254-00-W	.75	47532-00-W	.87
44422-88-W	.86	44644-88-W	.86	44910-88-W	.87	47150-88-W	.75	47178-88-W	.75	47254-88-W	.75	47532-88-W	.87

# EDP Number Index, 47532 – 57472

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
47532-89-W	.87	57012-88-W	.67	57060-88-W	.67	57112-88-W	.67	57208-88-W	.68	57238-88-W	.68	57266-88-W	.68
47534-00-W	.87	57012-89-W	.67	57060-89-W	.67	57112-89-W	.67	57208-89-W	.68	57238-89-W	.68	57266-89-W	.68
47534-88-W	.87	57014-00-W	.67	57062-00-W	.67	57114-00-W	.67	57210-00-W	.68	57240-00-W	.68	57268-00-W	.68
47534-89-W	.87	57014-88-W	.67	57062-88-W	.67	57114-88-W	.67	57210-88-W	.68	57240-88-W	.68	57268-88-W	.68
47536-00-W	.87	57014-89-W	.67	57062-89-W	.67	57114-89-W	.67	57210-89-W	.68	57240-89-W	.68	57268-89-W	.68
47536-88-W	.87	57020-00-W	.67	57064-00-W	.67	57116-00-W	.67	57212-00-W	.68	57242-00-W	.68	57270-00-W	.68
47536-89-W	.87	57020-88-W	.67	57064-88-W	.67	57116-88-W	.67	57212-88-W	.68	57242-88-W	.68	57270-88-W	.68
47538-00-W	.87	57020-89-W	.67	57064-89-W	.67	57116-89-W	.67	57212-89-W	.68	57242-89-W	.68	57270-89-W	.68
47538-88-W	.87	57022-00-W	.67	57070-00-W	.67	57120-00-W	.67	57214-00-W	.68	57244-00-W	.68	57272-00-W	.68
47538-89-W	.87	57022-88-W	.67	57070-88-W	.67	57120-88-W	.67	57214-88-W	.68	57244-88-W	.68	57272-88-W	.68
47540-00-W	.87	57022-89-W	.67	57070-89-W	.67	57120-89-W	.67	57214-89-W	.68	57244-89-W	.68	57272-89-W	.68
47540-88-W	.87	57024-00-W	.67	57072-00-W	.67	57122-00-W	.67	57216-00-W	.68	57246-00-W	.68	57274-00-W	.68
47540-89-W	.87	57024-88-W	.67	57072-88-W	.67	57122-88-W	.67	57216-88-W	.68	57246-88-W	.68	57274-88-W	.68
47542-00-W	.87	57024-89-W	.67	57072-89-W	.67	57122-89-W	.67	57216-89-W	.68	57246-89-W	.68	57274-89-W	.68
47542-88-W	.87	57030-00-W	.67	57074-00-W	.67	57124-00-W	.67	57218-00-W	.68	57248-00-W	.68	57276-00-W	.68
47542-89-W	.87	57030-88-W	.67	57074-88-W	.67	57124-88-W	.67	57218-88-W	.68	57248-88-W	.68	57276-88-W	.68
47544-00-W	.87	57030-89-W	.67	57074-89-W	.67	57124-89-W	.67	57218-89-W	.68	57248-89-W	.68	57276-89-W	.68
47544-88-W	.87	57032-00-W	.67	57080-00-W	.67	57126-00-W	.67	57220-00-W	.68	57250-00-W	.68	57278-00-W	.68
47544-89-W	.87	57032-88-W	.67	57080-88-W	.67	57126-88-W	.67	57220-88-W	.68	57250-88-W	.68	57278-88-W	.68
47546-00-W	.87	57032-89-W	.67	57080-89-W	.67	57126-89-W	.67	57220-89-W	.68	57250-89-W	.68	57278-89-W	.68
47546-88-W	.87	57034-00-W	.67	57082-00-W	.67	57130-00-W	.67	57222-00-W	.68	57252-00-W	.68	57280-00-W	.68
47546-89-W	.87	57034-88-W	.67	57082-88-W	.67	57130-88-W	.67	57222-88-W	.68	57252-88-W	.68	57280-88-W	.68
47548-00-W	.87	57034-89-W	.67	57082-89-W	.67	57130-89-W	.67	57222-89-W	.68	57252-89-W	.68	57280-89-W	.68
47548-88-W	.87	57040-00-W	.67	57084-00-W	.67	57132-00-W	.67	57224-00-W	.68	57254-00-W	.68	57324-00-W	.68
47548-89-W	.87	57040-88-W	.67	57084-88-W	.67	57132-88-W	.67	57224-88-W	.68	57254-88-W	.68	57324-88-W	.68
47550-00-W	.87	57040-89-W	.67	57084-89-W	.67	57132-89-W	.67	57224-89-W	.68	57254-89-W	.68	57324-89-W	.68
47550-88-W	.87	57042-00-W	.67	57090-00-W	.67	57140-00-W	.67	57226-00-W	.68	57256-00-W	.68	57410-00-W	.11
47550-89-W	.87	57042-88-W	.67	57090-88-W	.67	57140-88-W	.67	57226-88-W	.68	57256-88-W	.68	57414-00-W	.11
47552-00-W	.87	57042-89-W	.67	57090-89-W	.67	57140-89-W	.67	57226-89-W	.68	57256-89-W	.68	57420-00-W	.11
47552-88-W	.87	57044-00-W	.67	57092-00-W	.67	57142-00-W	.67	57228-00-W	.68	57258-00-W	.68	57430-00-W	.11
47552-89-W	.87	57044-88-W	.67	57092-88-W	.67	57142-88-W	.67	57228-88-W	.68	57258-88-W	.68	57432-00-W	.11
47554-00-W	.87	57044-89-W	.67	57092-89-W	.67	57142-89-W	.67	57228-89-W	.68	57258-89-W	.68	57434-00-W	.11
47554-88-W	.87	57050-00-W	.67	57094-00-W	.67	57202-00-W	.68	57230-00-W	.68	57260-00-W	.68	57440-00-W	.11
47554-89-W	.87	57050-88-W	.67	57094-88-W	.67	57202-88-W	.68	57230-88-W	.68	57260-88-W	.68	57442-00-W	.11
47556-00-W	.87	57050-89-W	.67	57094-89-W	.67	57202-89-W	.68	57230-89-W	.68	57260-89-W	.68	57444-00-W	.11
47556-88-W	.87	57052-00-W	.67	57096-00-W	.67	57204-00-W	.68	57232-00-W	.68	57262-00-W	.68	57450-00-W	.11
47556-89-W	.87	57052-88-W	.67	57096-88-W	.67	57204-88-W	.68	57232-88-W	.68	57262-88-W	.68	57452-00-W	.11
56412-00-W	.11	57052-89-W	.67	57096-89-W	.67	57204-89-W	.68	57232-89-W	.68	57262-89-W	.68	57460-00-W	.11
57010-00-W	.67	57054-00-W	.67	57110-00-W	.67	57206-00-W	.68	57234-00-W	.68	57264-00-W	.68	57462-00-W	.11
57010-88-W	.67	57054-88-W	.67	57110-88-W	.67	57206-88-W	.68	57234-88-W	.68	57264-88-W	.68	57464-00-W	.11
57010-89-W	.67	57054-89-W	.67	57110-89-W	.67	57206-89-W	.68	57234-89-W	.68	57264-89-W	.68	57470-00-W	.11
57012-00-W	.67	57060-00-W	.67	57112-00-W	.67	57208-00-W	.68	57238-00-W	.68	57266-00-W	.68	57472-00-W	.11



# EDP Number Index, 57473–58243

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
57473-00-W	13	57808-00-W	95	57850-85-W	95	58049-86-W	15	58091-86-W	16	58161-86-W	17	58215-86-W	15
57473-86-W	13	57808-85-W	95	57851-85-W	95	58049-89-W	15	58091-89-W	16	58161-89-W	17	58215-89-W	15
57474-00-W	13	57810-85-W	95	57852-00-W	95	58052-00-W	15	58094-00-W	16	58167-00-W	17	58217-00-W	15
57474-86-W	13	57811-85-W	95	57852-85-W	95	58052-86-W	15	58094-86-W	16	58167-86-W	17	58217-86-W	15
57475-00-W	13	57812-00-W	95	57854-85-W	95	58052-89-W	15	58094-89-W	16	58167-89-W	17	58217-89-W	15
57475-86-W	13	57812-85-W	95	57855-85-W	95	58055-00-W	15	58097-00-W	16	58172-00-W	17	58219-00-W	15
57476-00-W	13	57814-85-W	95	57856-00-W	95	58055-86-W	15	58097-86-W	16	58172-86-W	17	58219-86-W	15
57476-86-W	13	57815-85-W	95	57856-85-W	95	58055-89-W	15	58097-89-W	16	58172-89-W	17	58219-89-W	15
57477-00-W	13	57816-00-W	95	57858-85-W	95	58058-00-W	15	58100-00-W	16	58175-00-W	17	58221-00-W	15
57477-86-W	13	57816-85-W	95	57859-85-W	95	58058-86-W	15	58100-86-W	16	58175-86-W	17	58221-86-W	15
57478-00-W	13	57818-85-W	95	57860-00-W	95	58058-89-W	15	58100-89-W	16	58175-89-W	17	58221-89-W	15
57478-86-W	13	57819-85-W	95	57860-85-W	95	58061-00-W	15	58105-00-W	16	58178-00-W	17	58223-00-W	15
57479-00-W	13	57820-00-W	95	57862-85-W	95	58061-86-W	15	58105-86-W	16	58178-86-W	17	58223-86-W	15
57479-86-W	13	57820-85-W	95	57863-85-W	95	58061-89-W	15	58105-89-W	16	58178-89-W	17	58223-89-W	15
57480-00-W	13	57822-85-W	95	58000-00-W	15	58064-00-W	15	58111-00-W	16	58181-00-W	17	58225-00-W	15
57480-86-W	13	57823-85-W	95	58000-86-W	15	58064-86-W	15	58111-86-W	16	58181-86-W	17	58225-86-W	15
57481-00-W	13	57824-00-W	95	58000-89-W	15	58064-89-W	15	58111-89-W	16	58181-89-W	17	58225-89-W	15
57481-86-W	13	57824-85-W	95	58005-00-W	15	58067-00-W	15	58117-00-W	16	58184-00-W	17	58227-00-W	15
57482-00-W	13	57826-85-W	95	58005-86-W	15	58067-86-W	15	58117-86-W	16	58184-86-W	17	58227-86-W	15
57482-86-W	13	57827-85-W	95	58005-89-W	15	58067-89-W	15	58117-89-W	16	58184-89-W	17	58227-89-W	15
57483-00-W	13	57828-00-W	95	58011-00-W	15	58070-00-W	15	58123-00-W	16	58187-00-W	17	58229-00-W	15
57483-86-W	13	57828-85-W	95	58011-86-W	15	58070-86-W	15	58123-86-W	16	58187-86-W	17	58229-86-W	15
57484-00-W	13	57830-85-W	95	58011-89-W	15	58070-89-W	15	58123-89-W	16	58187-89-W	17	58229-89-W	15
57484-86-W	13	57831-85-W	95	58017-00-W	15	58073-00-W	15	58129-00-W	16	58190-00-W	17	58231-00-W	15
57485-00-W	13	57832-00-W	95	58017-86-W	15	58073-86-W	15	58129-86-W	16	58190-86-W	17	58231-86-W	15
57485-86-W	13	57832-85-W	95	58017-89-W	15	58073-89-W	15	58129-89-W	16	58190-89-W	17	58231-89-W	15
57486-00-W	13	57834-85-W	95	58023-00-W	15	58076-00-W	15	58135-00-W	16	58193-00-W	17	58233-00-W	15
57486-86-W	13	57835-85-W	95	58023-86-W	15	58076-86-W	15	58135-86-W	16	58193-86-W	17	58233-86-W	15
57487-00-W	13	57836-00-W	95	58023-89-W	15	58076-89-W	15	58135-89-W	16	58193-89-W	17	58233-89-W	15
57487-86-W	13	57836-85-W	95	58029-00-W	15	58079-00-W	15	58141-00-W	16	58196-00-W	17	58235-00-W	15
57488-00-W	13	57838-85-W	95	58029-86-W	15	58079-86-W	15	58141-86-W	16	58196-86-W	17	58235-86-W	15
57488-86-W	13	57839-85-W	95	58029-89-W	15	58079-89-W	15	58141-89-W	16	58196-89-W	17	58235-89-W	15
57489-00-W	13	57840-00-W	95	58035-00-W	15	58082-00-W	16	58146-00-W	16	58199-00-W	17	58237-00-W	15
57489-86-W	13	57840-85-W	95	58035-86-W	15	58082-86-W	16	58146-86-W	16	58199-86-W	17	58237-86-W	15
57800-00-W	95	57842-85-W	95	58035-89-W	15	58082-89-W	16	58146-89-W	16	58199-89-W	17	58237-89-W	15
57800-85-W	95	57843-85-W	95	58041-00-W	15	58085-00-W	16	58149-00-W	17	58203-00-W	17	58239-00-W	15
57802-85-W	95	57844-00-W	95	58041-86-W	15	58085-86-W	16	58149-86-W	17	58203-86-W	17	58239-86-W	15
57803-85-W	95	57844-85-W	95	58041-89-W	15	58085-89-W	16	58149-89-W	17	58203-89-W	17	58239-89-W	15
57804-00-W	95	57846-85-W	95	58046-00-W	15	58088-00-W	16	58155-00-W	17	58209-00-W	17	58241-00-W	15
57804-85-W	95	57847-85-W	95	58046-86-W	15	58088-86-W	16	58155-86-W	17	58209-86-W	17	58241-86-W	15
57806-85-W	95	57848-00-W	95	58046-89-W	15	58088-89-W	16	58155-89-W	17	58209-89-W	17	58241-89-W	15
57807-85-W	95	57848-85-W	95	58049-00-W	15	58091-00-W	16	58161-00-W	17	58215-00-W	15	58243-00-W	15

# EDP Number Index, 58243 – 58381

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
58243-86-W	15	58259-86-W	16	58278-86-W	16	58292-86-W	17	58311-86-W	17	58339-86-W	17	58366-86-W	17
58243-89-W	15	58259-89-W	16	58278-89-W	16	58292-89-W	17	58311-89-W	17	58339-89-W	17	58366-89-W	17
58245-00-W	16	58261-00-W	16	58279-00-W	17	58293-00-W	17	58313-00-W	17	58341-00-W	17	58367-00-W	17
58245-86-W	16	58261-86-W	16	58279-86-W	17	58293-86-W	17	58313-86-W	17	58341-86-W	17	58367-86-W	17
58245-89-W	16	58261-89-W	16	58279-89-W	17	58293-89-W	17	58313-89-W	17	58341-89-W	17	58367-89-W	17
58246-00-W	16	58262-00-W	16	58280-00-W	17	58294-00-W	17	58315-00-W	17	58343-00-W	17	58368-00-W	17
58246-86-W	16	58262-86-W	16	58280-86-W	17	58294-86-W	17	58315-86-W	17	58343-86-W	17	58368-86-W	17
58246-89-W	16	58262-89-W	16	58280-89-W	17	58294-89-W	17	58315-89-W	17	58343-89-W	17	58368-89-W	17
58247-00-W	16	58263-00-W	16	58281-00-W	17	58295-00-W	17	58317-00-W	17	58345-00-W	17	58369-00-W	17
58247-86-W	16	58263-86-W	16	58281-86-W	17	58295-86-W	17	58317-86-W	17	58345-86-W	17	58369-86-W	17
58247-89-W	16	58263-89-W	16	58281-89-W	17	58295-89-W	17	58317-89-W	17	58345-89-W	17	58369-89-W	17
58248-00-W	16	58265-00-W	16	58282-00-W	17	58296-00-W	17	58319-00-W	17	58347-00-W	17	58370-00-W	17
58248-86-W	16	58265-86-W	16	58282-86-W	17	58296-86-W	17	58319-86-W	17	58347-86-W	17	58370-86-W	17
58248-89-W	16	58265-89-W	16	58282-89-W	17	58296-89-W	17	58319-89-W	17	58347-89-W	17	58370-89-W	17
58249-00-W	16	58266-00-W	16	58283-00-W	17	58297-00-W	17	58321-00-W	17	58349-00-W	17	58371-00-W	17
58249-86-W	16	58266-86-W	16	58283-86-W	17	58297-86-W	17	58321-86-W	17	58349-86-W	17	58371-86-W	17
58249-89-W	16	58266-89-W	16	58283-89-W	17	58297-89-W	17	58321-89-W	17	58349-89-W	17	58371-89-W	17
58250-00-W	16	58267-00-W	16	58284-00-W	17	58298-00-W	17	58323-00-W	17	58351-00-W	17	58372-00-W	17
58250-86-W	16	58267-86-W	16	58284-86-W	17	58298-86-W	17	58323-86-W	17	58351-86-W	17	58372-86-W	17
58250-89-W	16	58267-89-W	16	58284-89-W	17	58298-89-W	17	58323-89-W	17	58351-89-W	17	58372-89-W	17
58251-00-W	16	58269-00-W	16	58285-00-W	17	58299-00-W	17	58325-00-W	17	58353-00-W	17	58373-00-W	17
58251-86-W	16	58269-86-W	16	58285-86-W	17	58299-86-W	17	58325-86-W	17	58353-86-W	17	58373-86-W	17
58251-89-W	16	58269-89-W	16	58285-89-W	17	58299-89-W	17	58325-89-W	17	58353-89-W	17	58373-89-W	17
58252-00-W	16	58270-00-W	16	58286-00-W	17	58300-00-W	17	58327-00-W	17	58355-00-W	17	58374-00-W	17
58252-86-W	16	58270-86-W	16	58286-86-W	17	58300-86-W	17	58327-86-W	17	58355-86-W	17	58374-86-W	17
58252-89-W	16	58270-89-W	16	58286-89-W	17	58300-89-W	17	58327-89-W	17	58355-89-W	17	58374-89-W	17
58253-00-W	16	58271-00-W	16	58287-00-W	17	58301-00-W	17	58329-00-W	17	58357-00-W	17	58375-00-W	17
58253-86-W	16	58271-86-W	16	58287-86-W	17	58301-86-W	17	58329-86-W	17	58357-86-W	17	58375-86-W	17
58253-89-W	16	58271-89-W	16	58287-89-W	17	58301-89-W	17	58329-89-W	17	58357-89-W	17	58375-89-W	17
58254-00-W	16	58273-00-W	16	58288-00-W	17	58303-00-W	17	58331-00-W	17	58359-00-W	17	58376-00-W	17
58254-86-W	16	58273-86-W	16	58288-86-W	17	58303-86-W	17	58331-86-W	17	58359-86-W	17	58376-86-W	17
58254-89-W	16	58273-89-W	16	58288-89-W	17	58303-89-W	17	58331-89-W	17	58359-89-W	17	58376-89-W	17
58255-00-W	16	58274-00-W	16	58289-00-W	17	58305-00-W	17	58333-00-W	17	58361-00-W	17	58378-00-W	17
58255-86-W	16	58274-86-W	16	58289-86-W	17	58305-86-W	17	58333-86-W	17	58361-86-W	17	58378-86-W	17
58255-89-W	16	58274-89-W	16	58289-89-W	17	58305-89-W	17	58333-89-W	17	58361-89-W	17	58378-89-W	17
58257-00-W	16	58275-00-W	16	58290-00-W	17	58307-00-W	17	58335-00-W	17	58363-00-W	17	58379-00-W	17
58257-86-W	16	58275-86-W	16	58290-86-W	17	58307-86-W	17	58335-86-W	17	58363-86-W	17	58379-86-W	17
58257-89-W	16	58275-89-W	16	58290-89-W	17	58307-89-W	17	58335-89-W	17	58363-89-W	17	58379-89-W	17
58258-00-W	16	58277-00-W	16	58291-00-W	17	58309-00-W	17	58337-00-W	17	58365-00-W	17	58380-00-W	17
58258-86-W	16	58277-86-W	16	58291-86-W	17	58309-86-W	17	58337-86-W	17	58365-86-W	17	58380-86-W	17
58258-89-W	16	58277-89-W	16	58291-89-W	17	58309-89-W	17	58337-89-W	17	58365-89-W	17	58380-89-W	17
58259-00-W	16	58278-00-W	16	58292-00-W	17	58311-00-W	17	58339-00-W	17	58366-00-W	17	58381-00-W	17

# EDP Number Index, 58381 – 59381

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
58381-86-W	.17	58395-86-W	.17	58749-00-W	.7	58791-00-W	.7	58835-00-W	.7	59299-85-W	.21	59341-85-W	.21
58381-89-W	.17	58395-89-W	.17	58749-86-W	.7	58791-86-W	.7	58835-86-W	.7	59299-89-W	.21	59341-89-W	.21
58382-00-W	.17	58664-85-W	.31	58749-89-W	.7	58791-89-W	.7	58835-89-W	.7	59301-85-W	.21	59343-85-W	.25
58382-86-W	.17	58695-00-W	.7	58752-00-W	.7	58796-00-W	.7	58838-00-W	.7	59301-89-W	.21	59343-89-W	.25
58382-89-W	.17	58695-86-W	.7	58752-86-W	.7	58796-86-W	.7	58838-86-W	.7	59303-85-W	.21	59345-85-W	.25
58383-00-W	.17	58695-89-W	.7	58752-89-W	.7	58796-89-W	.7	58838-89-W	.7	59303-89-W	.21	59345-89-W	.25
58383-86-W	.17	58700-00-W	.7	58755-00-W	.7	58799-00-W	.7	58841-00-W	.7	59305-85-W	.21	59347-85-W	.25
58383-89-W	.17	58700-86-W	.7	58755-86-W	.7	58799-86-W	.7	58841-86-W	.7	59305-89-W	.21	59347-89-W	.25
58384-00-W	.17	58700-89-W	.7	58755-89-W	.7	58799-89-W	.7	58841-89-W	.7	59307-85-W	.21	59349-85-W	.25
58384-86-W	.17	58705-00-W	.7	58758-00-W	.7	58802-00-W	.7	58844-00-W	.7	59307-89-W	.21	59349-89-W	.25
58384-89-W	.17	58705-86-W	.7	58758-86-W	.7	58802-86-W	.7	58844-86-W	.7	59309-85-W	.21	59351-85-W	.25
58385-00-W	.17	58705-89-W	.7	58758-89-W	.7	58802-89-W	.7	58844-89-W	.7	59309-89-W	.21	59351-89-W	.25
58385-86-W	.17	58711-00-W	.7	58761-00-W	.7	58805-00-W	.7	58847-00-W	.7	59311-85-W	.21	59353-85-W	.25
58385-89-W	.17	58711-86-W	.7	58761-86-W	.7	58805-86-W	.7	58847-86-W	.7	59311-89-W	.21	59353-89-W	.25
58386-00-W	.17	58711-89-W	.7	58761-89-W	.7	58805-89-W	.7	58847-89-W	.7	59313-85-W	.21	59355-85-W	.25
58386-86-W	.17	58717-00-W	.7	58764-00-W	.7	58808-00-W	.7	58850-00-W	.7	59313-89-W	.21	59355-89-W	.25
58386-89-W	.17	58717-86-W	.7	58764-86-W	.7	58808-86-W	.7	58850-86-W	.7	59315-85-W	.21	59357-85-W	.25
58387-00-W	.17	58717-89-W	.7	58764-89-W	.7	58808-89-W	.7	58850-89-W	.7	59315-89-W	.21	59357-89-W	.25
58387-86-W	.17	58723-00-W	.7	58767-00-W	.7	58811-00-W	.7	58853-00-W	.7	59317-85-W	.21	59359-85-W	.25
58387-89-W	.17	58723-86-W	.7	58767-86-W	.7	58811-86-W	.7	58853-86-W	.7	59317-89-W	.21	59359-89-W	.25
58388-00-W	.17	58723-89-W	.7	58767-89-W	.7	58811-89-W	.7	58853-89-W	.7	59319-85-W	.21	59361-85-W	.25
58388-86-W	.17	58728-00-W	.7	58770-00-W	.7	58814-00-W	.7	58856-00-W	.7	59319-89-W	.21	59361-89-W	.25
58388-89-W	.17	58728-86-W	.7	58770-86-W	.7	58814-86-W	.7	58856-86-W	.7	59321-85-W	.21	59363-85-W	.25
58389-00-W	.17	58728-89-W	.7	58770-89-W	.7	58814-89-W	.7	58856-89-W	.7	59321-89-W	.21	59363-89-W	.25
58389-86-W	.17	58731-00-W	.7	58773-00-W	.7	58817-00-W	.7	58859-00-W	.7	59323-85-W	.21	59365-85-W	.25
58389-89-W	.17	58731-86-W	.7	58773-86-W	.7	58817-86-W	.7	58859-86-W	.7	59323-89-W	.21	59365-89-W	.25
58390-00-W	.17	58731-89-W	.7	58773-89-W	.7	58817-89-W	.7	58859-89-W	.7	59325-85-W	.21	59367-85-W	.25
58390-86-W	.17	58734-00-W	.7	58776-00-W	.7	58820-00-W	.7	58862-00-W	.7	59325-89-W	.21	59367-89-W	.25
58390-89-W	.17	58734-86-W	.7	58776-86-W	.7	58820-86-W	.7	58862-86-W	.7	59327-85-W	.21	59369-85-W	.25
58391-00-W	.17	58734-89-W	.7	58776-89-W	.7	58820-89-W	.7	58862-89-W	.7	59327-89-W	.21	59369-89-W	.25
58391-86-W	.17	58737-00-W	.7	58779-00-W	.7	58823-00-W	.7	59287-85-W	.21	59329-85-W	.21	59371-85-W	.25
58391-89-W	.17	58737-86-W	.7	58779-86-W	.7	58823-86-W	.7	59287-89-W	.21	59329-89-W	.21	59371-89-W	.25
58392-00-W	.17	58737-89-W	.7	58779-89-W	.7	58823-89-W	.7	59289-85-W	.21	59331-85-W	.21	59373-85-W	.25
58392-86-W	.17	58740-00-W	.7	58782-00-W	.7	58826-00-W	.7	59289-89-W	.21	59331-89-W	.21	59373-89-W	.25
58392-89-W	.17	58740-86-W	.7	58782-86-W	.7	58826-86-W	.7	59291-85-W	.21	59333-85-W	.21	59375-85-W	.25
58393-00-W	.17	58740-89-W	.7	58782-89-W	.7	58826-89-W	.7	59291-89-W	.21	59333-89-W	.21	59375-89-W	.25
58393-86-W	.17	58743-00-W	.7	58785-00-W	.7	58829-00-W	.7	59293-85-W	.21	59335-85-W	.21	59377-85-W	.25
58393-89-W	.17	58743-86-W	.7	58785-86-W	.7	58829-86-W	.7	59293-89-W	.21	59335-89-W	.21	59377-89-W	.25
58394-00-W	.17	58743-89-W	.7	58785-89-W	.7	58829-89-W	.7	59295-85-W	.21	59337-85-W	.21	59379-85-W	.25
58394-86-W	.17	58746-00-W	.7	58788-00-W	.7	58832-00-W	.7	59295-89-W	.21	59337-89-W	.21	59379-89-W	.25
58394-89-W	.17	58746-86-W	.7	58788-86-W	.7	58832-86-W	.7	59297-85-W	.21	59339-85-W	.21	59381-85-W	.25
58395-00-W	.17	58746-89-W	.7	58788-89-W	.7	58832-89-W	.7	59297-89-W	.21	59339-89-W	.21	59381-89-W	.25

# EDP Number Index, 59383 – 59619

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
59383-85-W	.25	59425-85-W	.23	59467-85-W	.29	59511-85-W	.30	59553-85-W	.31	59577-85-W	.30	59598-85-W	.30
59383-89-W	.25	59425-89-W	.23	59467-89-W	.29	59511-89-W	.30	59553-89-W	.31	59577-89-W	.30	59598-89-W	.30
59385-85-W	.25	59427-85-W	.23	59469-85-W	.29	59513-85-W	.30	59555-85-W	.31	59578-85-W	.30	59599-85-W	.30
59385-89-W	.25	59427-89-W	.23	59469-89-W	.29	59513-89-W	.30	59555-89-W	.31	59578-89-W	.30	59599-89-W	.30
59387-85-W	.25	59429-85-W	.23	59471-85-W	.29	59515-85-W	.30	59557-85-W	.31	59579-85-W	.30	59600-85-W	.30
59387-89-W	.25	59429-89-W	.23	59471-89-W	.29	59515-89-W	.30	59557-89-W	.31	59579-89-W	.30	59600-89-W	.30
59389-85-W	.25	59431-85-W	.23	59473-85-W	.29	59517-85-W	.30	59559-85-W	.29	59580-85-W	.30	59601-85-W	.30
59389-89-W	.25	59431-89-W	.23	59473-89-W	.29	59517-89-W	.30	59559-89-W	.29	59580-89-W	.30	59601-89-W	.30
59391-85-W	.25	59433-85-W	.23	59475-85-W	.29	59519-85-W	.30	59560-85-W	.29	59581-85-W	.30	59602-85-W	.30
59391-89-W	.25	59433-89-W	.23	59475-89-W	.29	59519-89-W	.30	59560-89-W	.29	59581-89-W	.30	59602-89-W	.30
59393-85-W	.25	59435-85-W	.23	59477-85-W	.29	59521-85-W	.30	59561-85-W	.29	59582-85-W	.30	59603-85-W	.30
59393-89-W	.25	59435-89-W	.23	59477-89-W	.29	59521-89-W	.30	59561-89-W	.29	59582-89-W	.30	59603-89-W	.30
59395-85-W	.25	59437-85-W	.23	59479-85-W	.29	59523-85-W	.30	59562-85-W	.29	59583-85-W	.30	59604-85-W	.30
59395-89-W	.25	59437-89-W	.23	59479-89-W	.29	59523-89-W	.30	59562-89-W	.29	59583-89-W	.30	59604-89-W	.30
59397-85-W	.25	59439-85-W	.23	59481-85-W	.29	59525-85-W	.30	59563-85-W	.29	59584-85-W	.30	59605-85-W	.30
59397-89-W	.25	59439-89-W	.23	59481-89-W	.29	59525-89-W	.30	59563-89-W	.29	59584-89-W	.30	59605-89-W	.30
59399-85-W	.23	59441-85-W	.23	59483-85-W	.29	59527-85-W	.30	59564-85-W	.29	59585-85-W	.30	59606-85-W	.30
59399-89-W	.23	59441-89-W	.23	59483-89-W	.29	59527-89-W	.30	59564-89-W	.29	59585-89-W	.30	59606-89-W	.30
59401-85-W	.23	59443-85-W	.23	59485-85-W	.29	59529-85-W	.30	59565-85-W	.29	59586-85-W	.30	59607-85-W	.30
59401-89-W	.23	59443-89-W	.23	59485-89-W	.29	59529-89-W	.30	59565-89-W	.29	59586-89-W	.30	59607-89-W	.30
59403-85-W	.23	59445-85-W	.23	59487-85-W	.29	59531-85-W	.30	59566-85-W	.29	59587-85-W	.30	59608-85-W	.30
59403-89-W	.23	59445-89-W	.23	59487-89-W	.29	59531-89-W	.30	59566-89-W	.29	59587-89-W	.30	59608-89-W	.30
59405-85-W	.23	59447-85-W	.23	59489-85-W	.29	59533-85-W	.30	59567-85-W	.29	59588-85-W	.30	59609-85-W	.30
59405-89-W	.23	59447-89-W	.23	59489-89-W	.29	59533-89-W	.30	59567-89-W	.29	59588-89-W	.30	59609-89-W	.30
59407-85-W	.23	59449-85-W	.23	59491-85-W	.29	59535-85-W	.30	59568-85-W	.29	59589-85-W	.30	59610-85-W	.30
59407-89-W	.23	59449-89-W	.23	59491-89-W	.29	59535-89-W	.30	59568-89-W	.29	59589-89-W	.30	59610-89-W	.30
59409-85-W	.23	59451-85-W	.23	59493-85-W	.29	59537-85-W	.30	59569-85-W	.29	59590-85-W	.30	59611-85-W	.30
59409-89-W	.23	59451-89-W	.23	59493-89-W	.29	59537-89-W	.30	59569-89-W	.29	59590-89-W	.30	59611-89-W	.30
59411-85-W	.23	59453-85-W	.23	59495-85-W	.29	59539-85-W	.31	59570-85-W	.29	59591-85-W	.30	59612-85-W	.30
59411-89-W	.23	59453-89-W	.23	59495-89-W	.29	59539-89-W	.31	59570-89-W	.29	59591-89-W	.30	59612-89-W	.30
59413-85-W	.23	59455-85-W	.29	59497-85-W	.29	59541-85-W	.31	59571-85-W	.29	59592-85-W	.30	59613-85-W	.30
59413-89-W	.23	59455-89-W	.29	59497-89-W	.29	59541-89-W	.31	59571-89-W	.29	59592-89-W	.30	59613-89-W	.30
59415-85-W	.23	59457-85-W	.29	59501-85-W	.30	59543-85-W	.31	59572-85-W	.29	59593-85-W	.30	59614-85-W	.30
59415-89-W	.23	59457-89-W	.29	59501-89-W	.30	59543-89-W	.31	59572-89-W	.29	59593-89-W	.30	59614-89-W	.30
59417-85-W	.23	59459-85-W	.29	59503-85-W	.30	59545-85-W	.31	59573-85-W	.29	59594-85-W	.30	59615-85-W	.30
59417-89-W	.23	59459-89-W	.29	59503-89-W	.30	59545-89-W	.31	59573-89-W	.29	59594-89-W	.30	59615-89-W	.30
59419-85-W	.23	59461-85-W	.29	59505-85-W	.30	59547-85-W	.31	59574-85-W	.30	59595-85-W	.30	59616-89-W	.30
59419-89-W	.23	59461-89-W	.29	59505-89-W	.30	59547-89-W	.31	59574-89-W	.30	59595-89-W	.30	59617-85-W	.30
59421-85-W	.23	59463-85-W	.29	59507-85-W	.30	59549-85-W	.31	59575-85-W	.30	59596-85-W	.30	59617-89-W	.30
59421-89-W	.23	59463-89-W	.29	59507-89-W	.30	59549-89-W	.31	59575-89-W	.30	59596-89-W	.30	59618-85-W	.30
59423-85-W	.23	59465-85-W	.29	59509-85-W	.30	59551-85-W	.31	59576-85-W	.30	59597-85-W	.30	59618-89-W	.30
59423-89-W	.23	59465-89-W	.29	59509-89-W	.30	59551-89-W	.31	59576-89-W	.30	59597-89-W	.30	59619-85-W	.30

# EDP Number Index, 59619 – 64004

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
59619-89-W	.30	59640-89-W	.31	59661-89-W	.31	59683-85-W	.31	59845-89-W	.9	59887-89-W	.9	59930-89-W	.27
59620-85-W	.30	59641-85-W	.31	59662-85-W	.31	59683-89-W	.31	59848-00-W	.9	59890-00-W	.9	59932-85-W	.27
59620-89-W	.30	59641-89-W	.31	59662-89-W	.31	59684-85-W	.31	59848-86-W	.9	59890-86-W	.9	59932-89-W	.27
59621-85-W	.30	59642-85-W	.31	59663-85-W	.31	59684-89-W	.31	59848-89-W	.9	59890-89-W	.9	59934-85-W	.27
59621-89-W	.30	59642-89-W	.31	59663-89-W	.31	59685-85-W	.31	59851-00-W	.9	59893-00-W	.9	59934-89-W	.27
59622-85-W	.30	59643-85-W	.31	59664-89-W	.31	59685-89-W	.31	59851-86-W	.9	59893-86-W	.9	59936-85-W	.27
59622-89-W	.30	59643-89-W	.31	59665-85-W	.31	59686-85-W	.31	59851-89-W	.9	59893-89-W	.9	59936-89-W	.27
59623-85-W	.30	59644-85-W	.31	59665-89-W	.31	59686-89-W	.31	59854-00-W	.9	59896-00-W	.9	59938-85-W	.27
59623-89-W	.30	59644-89-W	.31	59666-85-W	.31	59687-85-W	.31	59854-86-W	.9	59896-86-W	.9	59938-89-W	.27
59624-85-W	.30	59645-85-W	.31	59666-89-W	.31	59687-89-W	.31	59854-89-W	.9	59896-89-W	.9	59940-85-W	.27
59624-89-W	.30	59645-89-W	.31	59667-85-W	.31	59688-85-W	.31	59857-00-W	.9	59899-00-W	.9	59940-89-W	.27
59625-85-W	.30	59646-85-W	.31	59667-89-W	.31	59688-89-W	.31	59857-86-W	.9	59899-86-W	.9	59942-85-W	.27
59625-89-W	.30	59646-89-W	.31	59668-85-W	.31	59689-85-W	.31	59857-89-W	.9	59899-89-W	.9	59942-89-W	.27
59626-85-W	.30	59647-85-W	.31	59668-89-W	.31	59689-89-W	.31	59860-00-W	.9	59902-00-W	.9	59944-85-W	.27
59626-89-W	.30	59647-89-W	.31	59669-85-W	.31	59690-85-W	.31	59860-86-W	.9	59902-86-W	.9	59944-89-W	.27
59627-85-W	.30	59648-85-W	.31	59669-89-W	.31	59690-89-W	.31	59860-89-W	.9	59902-89-W	.9	59946-85-W	.27
59627-89-W	.30	59648-89-W	.31	59670-85-W	.31	59691-85-W	.31	59863-00-W	.9	59905-00-W	.9	59946-89-W	.27
59628-85-W	.30	59649-85-W	.31	59670-89-W	.31	59691-89-W	.31	59863-86-W	.9	59905-86-W	.9	59948-85-W	.27
59628-89-W	.30	59649-89-W	.31	59671-85-W	.31	59716-85-W	.30	59863-89-W	.9	59905-89-W	.9	59948-89-W	.27
59629-85-W	.30	59650-85-W	.31	59671-89-W	.31	59824-00-W	.9	59866-00-W	.9	59908-85-W	.27	59950-85-W	.27
59629-89-W	.30	59650-89-W	.31	59672-85-W	.31	59824-86-W	.9	59866-86-W	.9	59908-89-W	.27	59950-89-W	.27
59630-85-W	.30	59651-85-W	.31	59672-89-W	.31	59824-89-W	.9	59866-89-W	.9	59910-85-W	.27	59952-85-W	.27
59630-89-W	.30	59651-89-W	.31	59673-85-W	.31	59827-00-W	.9	59869-00-W	.9	59910-89-W	.27	59952-89-W	.27
59631-85-W	.30	59652-85-W	.31	59673-89-W	.31	59827-86-W	.9	59869-86-W	.9	59912-85-W	.27	59954-85-W	.27
59631-89-W	.30	59652-89-W	.31	59674-85-W	.31	59827-89-W	.9	59869-89-W	.9	59912-89-W	.27	59954-89-W	.27
59632-85-W	.31	59653-85-W	.31	59674-89-W	.31	59830-00-W	.9	59872-00-W	.9	59914-85-W	.27	59956-85-W	.27
59632-89-W	.31	59653-89-W	.31	59675-85-W	.31	59830-86-W	.9	59872-86-W	.9	59914-89-W	.27	59956-89-W	.27
59633-85-W	.31	59654-85-W	.31	59675-89-W	.31	59830-89-W	.9	59872-89-W	.9	59916-85-W	.27	59958-85-W	.27
59633-89-W	.31	59654-89-W	.31	59676-85-W	.31	59833-00-W	.9	59875-00-W	.9	59916-89-W	.27	59958-89-W	.27
59634-85-W	.31	59655-85-W	.31	59676-89-W	.31	59833-86-W	.9	59875-86-W	.9	59918-85-W	.27	59960-85-W	.27
59634-89-W	.31	59655-89-W	.31	59677-85-W	.31	59833-89-W	.9	59875-89-W	.9	59918-89-W	.27	59960-89-W	.27
59635-85-W	.31	59656-85-W	.31	59677-89-W	.31	59836-00-W	.9	59878-00-W	.9	59920-85-W	.27	59962-85-W	.27
59635-89-W	.31	59656-89-W	.31	59678-85-W	.31	59836-86-W	.9	59878-86-W	.9	59920-89-W	.27	59962-89-W	.27
59636-85-W	.31	59657-85-W	.31	59678-89-W	.31	59836-89-W	.9	59878-89-W	.9	59922-85-W	.27	60515-00-W	.98
59636-89-W	.31	59657-89-W	.31	59679-85-W	.31	59839-00-W	.9	59881-00-W	.9	59922-89-W	.27	64000-00-W	.47
59637-85-W	.31	59658-85-W	.31	59679-89-W	.31	59839-86-W	.9	59881-86-W	.9	59924-85-W	.27	64000-88-W	.47
59637-89-W	.31	59658-89-W	.31	59680-85-W	.31	59839-89-W	.9	59881-89-W	.9	59924-89-W	.27	64000-89-W	.47
59638-85-W	.31	59659-85-W	.31	59680-89-W	.31	59842-00-W	.9	59884-00-W	.9	59926-85-W	.27	64002-00-W	.47
59638-89-W	.31	59659-89-W	.31	59681-85-W	.31	59842-86-W	.9	59884-86-W	.9	59926-89-W	.27	64002-88-W	.47
59639-85-W	.31	59660-85-W	.31	59681-89-W	.31	59842-89-W	.9	59884-89-W	.9	59928-85-W	.27	64002-89-W	.47
59639-89-W	.31	59660-89-W	.31	59682-85-W	.31	59845-00-W	.9	59887-00-W	.9	59928-89-W	.27	64004-00-W	.47
59640-85-W	.31	59661-85-W	.31	59682-89-W	.31	59845-86-W	.9	59887-86-W	.9	59930-85-W	.27	64004-88-W	.47



# EDP Number Index, 64004 – 64440

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
64004-89-W	.47	64026-89-W	.48	64048-88-W	.47	64070-89-W	.47	64132-85-W	.52	64212-85-W	.57	64324-88-W	.46
64006-00-W	.47	64028-00-W	.47	64048-88-W	.48	64072-00-W	.47	64132-89-W	.52	64212-89-W	.57	64324-89-W	.46
64006-88-W	.47	64028-00-W	.48	64048-89-W	.47	64072-88-W	.47	64140-00-W	.52	64214-00-W	.57	64326-00-W	.46
64006-89-W	.47	64028-88-W	.47	64048-89-W	.48	64072-89-W	.47	64140-85-W	.52	64214-85-W	.57	64326-88-W	.46
64008-00-W	.47	64028-88-W	.48	64050-00-W	.47	64074-00-W	.47	64140-89-W	.52	64214-89-W	.57	64326-89-W	.46
64008-88-W	.47	64028-89-W	.47	64050-00-W	.48	64074-88-W	.47	64158-00-W	.56	64216-00-W	.57	64328-00-W	.46
64008-89-W	.47	64028-89-W	.48	64050-88-W	.47	64074-89-W	.47	64158-85-W	.56	64216-85-W	.57	64328-88-W	.46
64010-00-W	.47	64030-00-W	.47	64050-88-W	.48	64076-00-W	.47	64158-89-W	.56	64216-89-W	.57	64328-89-W	.46
64010-88-W	.47	64030-88-W	.47	64050-89-W	.47	64076-88-W	.47	64162-00-W	.56	64302-00-W	.46	64330-00-W	.46
64010-89-W	.47	64030-89-W	.47	64050-89-W	.48	64076-89-W	.47	64162-85-W	.56	64302-88-W	.46	64330-88-W	.46
64012-00-W	.47	64032-00-W	.47	64052-00-W	.47	64078-00-W	.47	64162-89-W	.56	64302-89-W	.46	64330-89-W	.46
64012-88-W	.47	64032-88-W	.47	64052-00-W	.48	64078-88-W	.47	64166-00-W	.56	64304-00-W	.46	64332-00-W	.46
64012-89-W	.47	64032-89-W	.47	64052-88-W	.47	64078-89-W	.47	64166-85-W	.56	64304-88-W	.46	64332-88-W	.46
64014-00-W	.47	64034-00-W	.47	64052-88-W	.48	64080-00-W	.47	64166-89-W	.56	64304-89-W	.46	64332-89-W	.46
64014-88-W	.47	64034-88-W	.47	64052-89-W	.47	64080-88-W	.47	64168-00-W	.56	64306-00-W	.46	64334-00-W	.46
64014-89-W	.47	64034-89-W	.47	64052-89-W	.48	64080-89-W	.47	64168-85-W	.56	64306-88-W	.46	64334-88-W	.46
64016-00-W	.47	64036-00-W	.47	64054-00-W	.47	64082-00-W	.47	64168-89-W	.56	64306-89-W	.46	64334-89-W	.46
64016-88-W	.47	64036-88-W	.47	64054-88-W	.47	64084-00-W	.47	64170-00-W	.56	64308-00-W	.46	64336-00-W	.46
64016-89-W	.47	64036-89-W	.47	64054-89-W	.47	64086-00-W	.47	64170-85-W	.56	64308-88-W	.46	64336-88-W	.46
64018-00-W	.47	64038-00-W	.47	64056-00-W	.47	64088-00-W	.47	64170-89-W	.56	64308-89-W	.46	64336-89-W	.46
64018-88-W	.47	64038-00-W	.48	64056-88-W	.47	64090-00-W	.47	64172-00-W	.56	64310-00-W	.46	64338-00-W	.46
64018-89-W	.47	64038-88-W	.47	64056-89-W	.47	64092-00-W	.47	64172-85-W	.56	64310-88-W	.46	64338-88-W	.46
64020-00-W	.47	64038-88-W	.48	64058-00-W	.47	64094-00-W	.47	64172-89-W	.56	64310-89-W	.46	64338-89-W	.46
64020-00-W	.48	64038-89-W	.47	64058-88-W	.47	64096-00-W	.47	64174-00-W	.56	64312-00-W	.46	64340-00-W	.46
64020-88-W	.47	64038-89-W	.48	64058-89-W	.47	64098-00-W	.47	64174-85-W	.56	64312-88-W	.46	64340-88-W	.46
64020-88-W	.48	64040-00-W	.47	64060-00-W	.47	64099-00-W	.47	64174-89-W	.56	64312-89-W	.46	64340-89-W	.46
64020-89-W	.47	64040-00-W	.48	64060-88-W	.47	64108-00-W	.52	64202-00-W	.57	64314-00-W	.46	64342-00-W	.46
64020-89-W	.48	64040-88-W	.47	64060-89-W	.47	64108-85-W	.52	64202-85-W	.57	64314-88-W	.46	64342-88-W	.46
64022-00-W	.47	64040-88-W	.48	64062-00-W	.47	64108-89-W	.52	64202-89-W	.57	64314-89-W	.46	64342-89-W	.46
64022-88-W	.47	64040-89-W	.47	64062-88-W	.47	64112-00-W	.52	64204-00-W	.57	64316-00-W	.46	64344-00-W	.46
64022-89-W	.47	64040-89-W	.48	64062-89-W	.47	64112-85-W	.52	64204-85-W	.57	64316-88-W	.46	64344-88-W	.46
64024-00-W	.47	64042-00-W	.47	64064-00-W	.47	64112-89-W	.52	64204-89-W	.57	64316-89-W	.46	64344-89-W	.46
64024-00-W	.48	64042-88-W	.47	64064-88-W	.47	64116-00-W	.52	64206-00-W	.57	64318-00-W	.46	64410-00-W	.50
64024-88-W	.47	64042-89-W	.47	64064-89-W	.47	64116-85-W	.52	64206-85-W	.57	64318-88-W	.46	64410-85-W	.50
64024-88-W	.48	64044-00-W	.47	64066-00-W	.47	64116-89-W	.52	64206-89-W	.57	64318-89-W	.46	64410-89-W	.50
64024-89-W	.47	64044-88-W	.47	64066-88-W	.47	64120-00-W	.52	64208-00-W	.57	64320-00-W	.46	64420-00-W	.50
64024-89-W	.48	64044-89-W	.47	64066-89-W	.47	64120-85-W	.52	64208-85-W	.57	64320-88-W	.46	64420-85-W	.50
64026-00-W	.47	64046-00-W	.47	64068-00-W	.47	64120-89-W	.52	64208-89-W	.57	64320-89-W	.46	64420-89-W	.50
64026-00-W	.48	64046-88-W	.47	64068-88-W	.47	64124-00-W	.52	64210-00-W	.57	64322-00-W	.46	64430-00-W	.50
64026-88-W	.47	64046-89-W	.47	64068-89-W	.47	64124-85-W	.52	64210-85-W	.57	64322-88-W	.46	64430-85-W	.50
64026-88-W	.48	64048-00-W	.47	64070-00-W	.47	64124-89-W	.52	64210-89-W	.57	64322-89-W	.46	64430-89-W	.50
64026-89-W	.47	64048-00-W	.48	64070-88-W	.47	64132-00-W	.52	64212-00-W	.57	64324-00-W	.46	64440-00-W	.50

# EDP Number Index, 64440 – 64832

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
64440-85-W	.50	64484-85-W	.50	64512-89-W	.50	64554-85-W	.50	64618-00-W	.52	64706-00-W	.53	64806-00-W	.93
64440-89-W	.50	64484-89-W	.50	64512-89-W	.51	64554-89-W	.50	64618-85-W	.52	64706-85-W	.53	64806-85-W	.93
64442-00-W	.50	64486-00-W	.50	64514-00-W	.50	64556-00-W	.50	64618-89-W	.52	64706-89-W	.53	64806-89-W	.93
64442-85-W	.50	64486-85-W	.50	64514-85-W	.50	64556-85-W	.50	64620-00-W	.52	64708-00-W	.53	64808-00-W	.93
64442-89-W	.50	64486-89-W	.50	64514-89-W	.50	64556-89-W	.50	64620-85-W	.52	64708-85-W	.53	64808-85-W	.93
64444-00-W	.50	64488-00-W	.50	64516-00-W	.50	64558-00-W	.50	64620-89-W	.52	64708-89-W	.53	64808-89-W	.93
64444-85-W	.50	64488-85-W	.50	64516-85-W	.50	64558-85-W	.50	64622-00-W	.52	64710-00-W	.53	64810-00-W	.93
64444-89-W	.50	64488-89-W	.50	64516-89-W	.50	64558-89-W	.50	64622-85-W	.52	64710-85-W	.53	64810-85-W	.93
64450-00-W	.50	64490-00-W	.50	64518-00-W	.50	64560-00-W	.50	64622-89-W	.52	64710-89-W	.53	64810-89-W	.93
64450-85-W	.50	64490-85-W	.50	64518-85-W	.50	64562-00-W	.50	64624-00-W	.52	64712-00-W	.53	64812-00-W	.93
64450-89-W	.50	64490-89-W	.50	64518-89-W	.50	64564-00-W	.50	64624-85-W	.52	64712-85-W	.53	64812-85-W	.93
64452-00-W	.50	64500-00-W	.50	64520-00-W	.50	64566-00-W	.50	64624-89-W	.52	64712-89-W	.53	64812-89-W	.93
64452-85-W	.50	64500-00-W	.51	64520-85-W	.50	64568-00-W	.50	64626-00-W	.52	64714-00-W	.53	64814-00-W	.93
64452-89-W	.50	64500-85-W	.50	64520-89-W	.50	64570-00-W	.50	64626-85-W	.52	64714-85-W	.53	64814-85-W	.93
64460-00-W	.50	64500-85-W	.51	64530-00-W	.50	64572-00-W	.50	64626-89-W	.52	64714-89-W	.53	64814-89-W	.93
64460-85-W	.50	64500-89-W	.50	64530-85-W	.50	64574-00-W	.50	64628-00-W	.52	64716-00-W	.53	64816-00-W	.93
64460-89-W	.50	64500-89-W	.51	64530-89-W	.50	64576-00-W	.50	64628-85-W	.52	64716-85-W	.53	64816-85-W	.93
64462-00-W	.50	64502-00-W	.50	64532-00-W	.50	64578-00-W	.50	64628-89-W	.52	64716-89-W	.53	64816-89-W	.93
64462-85-W	.50	64502-00-W	.51	64532-85-W	.50	64602-00-W	.52	64630-00-W	.52	64718-00-W	.53	64818-00-W	.93
64462-89-W	.50	64502-85-W	.50	64532-89-W	.50	64602-85-W	.52	64630-85-W	.52	64718-85-W	.53	64818-85-W	.93
64470-00-W	.50	64502-85-W	.51	64540-00-W	.50	64602-89-W	.52	64630-89-W	.52	64718-89-W	.53	64818-89-W	.93
64470-00-W	.51	64502-89-W	.50	64540-85-W	.50	64604-00-W	.52	64632-00-W	.52	64720-00-W	.53	64820-00-W	.93
64470-85-W	.50	64502-89-W	.51	64540-89-W	.50	64604-85-W	.52	64632-85-W	.52	64720-85-W	.53	64820-85-W	.93
64470-85-W	.51	64504-00-W	.50	64542-00-W	.50	64604-89-W	.52	64632-89-W	.52	64720-89-W	.53	64820-89-W	.93
64470-89-W	.50	64504-85-W	.50	64542-85-W	.50	64606-00-W	.52	64634-00-W	.52	64722-00-W	.53	64822-00-W	.93
64470-89-W	.51	64504-89-W	.50	64542-89-W	.50	64606-85-W	.52	64634-85-W	.52	64722-85-W	.53	64822-85-W	.93
64472-00-W	.50	64506-00-W	.50	64544-00-W	.50	64606-89-W	.52	64634-89-W	.52	64722-89-W	.53	64822-89-W	.93
64472-85-W	.50	64506-85-W	.50	64544-85-W	.50	64608-00-W	.52	64636-00-W	.52	64724-00-W	.53	64824-00-W	.93
64472-89-W	.50	64506-89-W	.50	64544-89-W	.50	64608-85-W	.52	64636-85-W	.52	64724-85-W	.53	64824-85-W	.93
64480-00-W	.50	64508-00-W	.50	64546-00-W	.50	64608-89-W	.52	64636-89-W	.52	64724-89-W	.53	64824-89-W	.93
64480-00-W	.51	64508-85-W	.50	64546-85-W	.50	64610-00-W	.52	64638-00-W	.52	64726-00-W	.53	64826-00-W	.93
64480-85-W	.50	64508-89-W	.50	64546-89-W	.50	64610-85-W	.52	64638-85-W	.52	64726-85-W	.53	64826-85-W	.93
64480-85-W	.51	64510-00-W	.50	64548-00-W	.50	64610-89-W	.52	64638-89-W	.52	64726-89-W	.53	64826-89-W	.93
64480-89-W	.50	64510-00-W	.51	64548-85-W	.50	64612-00-W	.52	64640-00-W	.52	64728-00-W	.53	64828-00-W	.93
64480-89-W	.51	64510-85-W	.50	64548-89-W	.50	64612-85-W	.52	64640-85-W	.52	64728-85-W	.53	64828-85-W	.93
64482-00-W	.50	64510-85-W	.51	64550-00-W	.50	64612-89-W	.52	64640-89-W	.52	64728-89-W	.53	64828-89-W	.93
64482-00-W	.51	64510-89-W	.50	64550-85-W	.50	64614-00-W	.52	64702-00-W	.53	64802-00-W	.93	64830-00-W	.93
64482-85-W	.50	64510-89-W	.51	64550-89-W	.50	64614-85-W	.52	64702-85-W	.53	64802-85-W	.93	64830-85-W	.93
64482-85-W	.51	64512-00-W	.50	64552-00-W	.50	64614-89-W	.52	64702-89-W	.53	64802-89-W	.93	64830-89-W	.93
64482-89-W	.50	64512-00-W	.51	64552-85-W	.50	64616-00-W	.52	64704-00-W	.53	64804-00-W	.93	64832-00-W	.93
64482-89-W	.51	64512-85-W	.50	64552-89-W	.50	64616-85-W	.52	64704-85-W	.53	64804-85-W	.93	64832-85-W	.93
64484-00-W	.50	64512-85-W	.51	64554-00-W	.50	64616-89-W	.52	64704-89-W	.53	64804-89-W	.93	64832-89-W	.93

# EDP Number Index, 64834–65716

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
64834-00-W	.93	64910-00-W	.55	64938-00-W	.55	65002-00-W	.56	65030-00-W	.56	65602-89-W	.34	65630-89-W	.34
64834-85-W	.93	64910-85-W	.55	64938-85-W	.55	65002-85-W	.56	65030-85-W	.56	65604-00-W	.34	65632-00-W	.34
64834-89-W	.93	64910-89-W	.55	64938-89-W	.55	65002-89-W	.56	65030-89-W	.56	65604-86-W	.34	65632-86-W	.34
64836-00-W	.93	64912-00-W	.55	64940-00-W	.55	65004-00-W	.56	65032-00-W	.56	65604-89-W	.34	65632-89-W	.34
64836-85-W	.93	64912-85-W	.55	64940-85-W	.55	65004-85-W	.56	65032-85-W	.56	65606-00-W	.34	65634-00-W	.34
64836-89-W	.93	64912-89-W	.55	64940-89-W	.55	65004-89-W	.56	65032-89-W	.56	65606-86-W	.34	65634-86-W	.34
64838-00-W	.93	64914-00-W	.55	64942-00-W	.55	65006-00-W	.56	65034-00-W	.56	65606-89-W	.34	65634-89-W	.34
64838-85-W	.93	64914-85-W	.55	64942-85-W	.55	65006-85-W	.56	65034-85-W	.56	65608-00-W	.34	65636-00-W	.34
64838-89-W	.93	64914-89-W	.55	64942-89-W	.55	65006-89-W	.56	65034-89-W	.56	65608-86-W	.34	65636-86-W	.34
64840-00-W	.93	64916-00-W	.55	64944-00-W	.55	65008-00-W	.56	65036-00-W	.56	65608-89-W	.34	65636-89-W	.34
64840-85-W	.93	64916-85-W	.55	64944-85-W	.55	65008-85-W	.56	65036-85-W	.56	65610-00-W	.34	65638-00-W	.34
64840-89-W	.93	64916-89-W	.55	64944-89-W	.55	65008-89-W	.56	65036-89-W	.56	65610-86-W	.34	65638-86-W	.34
64842-00-W	.93	64918-00-W	.55	64946-00-W	.55	65010-00-W	.56	65038-00-W	.56	65610-89-W	.34	65638-89-W	.34
64842-85-W	.93	64918-85-W	.55	64946-85-W	.55	65010-85-W	.56	65038-85-W	.56	65612-00-W	.34	65640-00-W	.34
64842-89-W	.93	64918-89-W	.55	64946-89-W	.55	65010-89-W	.56	65038-89-W	.56	65612-86-W	.34	65640-86-W	.34
64844-00-W	.93	64920-00-W	.55	64948-00-W	.55	65012-00-W	.56	65040-00-W	.56	65612-89-W	.34	65640-89-W	.34
64844-85-W	.93	64920-85-W	.55	64948-85-W	.55	65012-85-W	.56	65040-85-W	.56	65614-00-W	.34	65642-00-W	.34
64844-89-W	.93	64920-89-W	.55	64948-89-W	.55	65012-89-W	.56	65040-89-W	.56	65614-86-W	.34	65642-86-W	.34
64846-00-W	.93	64922-00-W	.55	64950-00-W	.55	65014-00-W	.56	65110-00-W	.54	65614-89-W	.34	65642-89-W	.34
64846-85-W	.93	64922-85-W	.55	64950-85-W	.55	65014-85-W	.56	65112-00-W	.54	65616-00-W	.34	65702-00-W	.35
64846-89-W	.93	64922-89-W	.55	64950-89-W	.55	65014-89-W	.56	65114-00-W	.54	65616-86-W	.34	65702-86-W	.35
64848-00-W	.93	64924-00-W	.55	64952-00-W	.55	65016-00-W	.56	65116-00-W	.54	65616-89-W	.34	65702-89-W	.35
64848-85-W	.93	64924-85-W	.55	64952-85-W	.55	65016-85-W	.56	65118-00-W	.54	65618-00-W	.34	65704-00-W	.35
64848-89-W	.93	64924-89-W	.55	64952-89-W	.55	65016-89-W	.56	65120-00-W	.54	65618-86-W	.34	65704-86-W	.35
64850-00-W	.93	64926-00-W	.55	64954-00-W	.55	65018-00-W	.56	65122-00-W	.54	65618-89-W	.34	65704-89-W	.35
64850-85-W	.93	64926-85-W	.55	64954-85-W	.55	65018-85-W	.56	65124-00-W	.54	65620-00-W	.34	65706-00-W	.35
64850-89-W	.93	64926-89-W	.55	64954-89-W	.55	65018-89-W	.56	65126-00-W	.54	65620-86-W	.34	65706-86-W	.35
64852-00-W	.93	64928-00-W	.55	64956-00-W	.55	65020-00-W	.56	65128-00-W	.54	65620-89-W	.34	65706-89-W	.35
64854-00-W	.93	64928-85-W	.55	64956-85-W	.55	65020-85-W	.56	65130-00-W	.54	65622-00-W	.34	65708-00-W	.35
64856-00-W	.93	64928-89-W	.55	64956-89-W	.55	65020-89-W	.56	65202-00-W	.49	65622-86-W	.34	65708-86-W	.35
64902-00-W	.55	64930-00-W	.55	64958-00-W	.55	65022-00-W	.56	65204-00-W	.49	65622-89-W	.34	65708-89-W	.35
64902-85-W	.55	64930-85-W	.55	64958-85-W	.55	65022-85-W	.56	65206-00-W	.49	65624-00-W	.34	65710-00-W	.35
64902-89-W	.55	64930-89-W	.55	64958-89-W	.55	65022-89-W	.56	65208-00-W	.49	65624-86-W	.34	65710-86-W	.35
64904-00-W	.55	64932-00-W	.55	64960-00-W	.55	65024-00-W	.56	65210-00-W	.49	65624-89-W	.34	65710-89-W	.35
64904-85-W	.55	64932-85-W	.55	64960-85-W	.55	65024-85-W	.56	65212-00-W	.49	65626-00-W	.34	65712-00-W	.35
64904-89-W	.55	64932-89-W	.55	64960-89-W	.55	65024-89-W	.56	65214-00-W	.49	65626-86-W	.34	65712-86-W	.35
64906-00-W	.55	64934-00-W	.55	64962-00-W	.55	65026-00-W	.56	65216-00-W	.49	65626-89-W	.34	65712-89-W	.35
64906-85-W	.55	64934-85-W	.55	64962-85-W	.55	65026-85-W	.56	65218-00-W	.49	65628-00-W	.34	65714-00-W	.35
64906-89-W	.55	64934-89-W	.55	64962-89-W	.55	65026-89-W	.56	65220-00-W	.49	65628-86-W	.34	65714-86-W	.35
64908-00-W	.55	64936-00-W	.55	64964-00-W	.55	65028-00-W	.56	65222-00-W	.49	65628-89-W	.34	65714-89-W	.35
64908-85-W	.55	64936-85-W	.55	64964-85-W	.55	65028-85-W	.56	65602-00-W	.34	65630-00-W	.34	65716-00-W	.35
64908-89-W	.55	64936-89-W	.55	64964-89-W	.55	65028-89-W	.56	65602-86-W	.34	65630-86-W	.34	65716-86-W	.35

# EDP Number Index, 65716 – 66154

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
65716-89-W	.35	65744-89-W	.35	65820-89-W	.36	65848-89-W	.36	65926-89-W	.36	66018-00-W	.36	66126-89-W	.37
65718-00-W	.35	65746-00-W	.35	65822-00-W	.36	65850-00-W	.36	65928-00-W	.36	66020-00-W	.36	66128-00-W	.37
65718-86-W	.35	65746-86-W	.35	65822-85-W	.36	65850-85-W	.36	65928-85-W	.36	66022-00-W	.36	66128-85-W	.37
65718-89-W	.35	65746-89-W	.35	65822-89-W	.36	65850-89-W	.36	65928-89-W	.36	66024-00-W	.36	66128-89-W	.37
65720-00-W	.35	65748-00-W	.35	65824-00-W	.36	65902-00-W	.36	65930-00-W	.36	66102-00-W	.37	66130-00-W	.37
65720-86-W	.35	65748-86-W	.35	65824-85-W	.36	65902-85-W	.36	65930-85-W	.36	66102-85-W	.37	66130-85-W	.37
65720-89-W	.35	65748-89-W	.35	65824-89-W	.36	65902-89-W	.36	65930-89-W	.36	66102-89-W	.37	66130-89-W	.37
65722-00-W	.35	65750-00-W	.35	65826-00-W	.36	65904-00-W	.36	65932-00-W	.36	66104-00-W	.37	66132-00-W	.37
65722-86-W	.35	65750-86-W	.35	65826-85-W	.36	65904-85-W	.36	65932-85-W	.36	66104-85-W	.37	66132-85-W	.37
65722-89-W	.35	65750-89-W	.35	65826-89-W	.36	65904-89-W	.36	65932-89-W	.36	66104-89-W	.37	66132-89-W	.37
65724-00-W	.35	65752-00-W	.35	65828-00-W	.36	65906-00-W	.36	65934-00-W	.36	66106-00-W	.37	66134-00-W	.37
65724-86-W	.35	65752-86-W	.35	65828-85-W	.36	65906-85-W	.36	65934-85-W	.36	66106-85-W	.37	66134-85-W	.37
65724-89-W	.35	65752-89-W	.35	65828-89-W	.36	65906-89-W	.36	65934-89-W	.36	66106-89-W	.37	66134-89-W	.37
65726-00-W	.35	65802-00-W	.36	65830-00-W	.36	65908-00-W	.36	65936-00-W	.36	66108-00-W	.37	66136-00-W	.37
65726-86-W	.35	65802-85-W	.36	65830-85-W	.36	65908-85-W	.36	65936-85-W	.36	66108-85-W	.37	66136-85-W	.37
65726-89-W	.35	65802-89-W	.36	65830-89-W	.36	65908-89-W	.36	65936-89-W	.36	66108-89-W	.37	66136-89-W	.37
65728-00-W	.35	65804-00-W	.36	65832-00-W	.36	65910-00-W	.36	65938-00-W	.36	66110-00-W	.37	66138-00-W	.37
65728-86-W	.35	65804-85-W	.36	65832-85-W	.36	65910-85-W	.36	65938-85-W	.36	66110-85-W	.37	66138-85-W	.37
65728-89-W	.35	65804-89-W	.36	65832-89-W	.36	65910-89-W	.36	65938-89-W	.36	66110-89-W	.37	66138-89-W	.37
65730-00-W	.35	65806-00-W	.36	65834-00-W	.36	65912-00-W	.36	65940-00-W	.36	66112-00-W	.37	66140-00-W	.37
65730-86-W	.35	65806-85-W	.36	65834-85-W	.36	65912-85-W	.36	65940-85-W	.36	66112-85-W	.37	66140-85-W	.37
65730-89-W	.35	65806-89-W	.36	65834-89-W	.36	65912-89-W	.36	65940-89-W	.36	66112-89-W	.37	66140-89-W	.37
65732-00-W	.35	65808-00-W	.36	65836-00-W	.36	65914-00-W	.36	66002-00-W	.36	66114-00-W	.37	66142-00-W	.37
65732-86-W	.35	65808-85-W	.36	65836-85-W	.36	65914-85-W	.36	66002-85-W	.36	66114-85-W	.37	66142-85-W	.37
65732-89-W	.35	65808-89-W	.36	65836-89-W	.36	65914-89-W	.36	66002-89-W	.36	66114-89-W	.37	66142-89-W	.37
65734-00-W	.35	65810-00-W	.36	65838-00-W	.36	65916-00-W	.36	66004-00-W	.36	66116-00-W	.37	66144-00-W	.37
65734-86-W	.35	65810-85-W	.36	65838-85-W	.36	65916-85-W	.36	66004-85-W	.36	66116-85-W	.37	66144-85-W	.37
65734-89-W	.35	65810-89-W	.36	65838-89-W	.36	65916-89-W	.36	66004-89-W	.36	66116-89-W	.37	66144-89-W	.37
65736-00-W	.35	65812-00-W	.36	65840-00-W	.36	65918-00-W	.36	66006-00-W	.36	66118-00-W	.37	66146-00-W	.37
65736-86-W	.35	65812-85-W	.36	65840-85-W	.36	65918-85-W	.36	66006-85-W	.36	66118-85-W	.37	66146-85-W	.37
65736-89-W	.35	65812-89-W	.36	65840-89-W	.36	65918-89-W	.36	66006-89-W	.36	66118-89-W	.37	66146-89-W	.37
65738-00-W	.35	65814-00-W	.36	65842-00-W	.36	65920-00-W	.36	66008-00-W	.36	66120-00-W	.37	66148-00-W	.37
65738-86-W	.35	65814-85-W	.36	65842-85-W	.36	65920-85-W	.36	66008-85-W	.36	66120-85-W	.37	66148-85-W	.37
65738-89-W	.35	65814-89-W	.36	65842-89-W	.36	65920-89-W	.36	66008-89-W	.36	66120-89-W	.37	66148-89-W	.37
65740-00-W	.35	65816-00-W	.36	65844-00-W	.36	65922-00-W	.36	66010-00-W	.36	66122-00-W	.37	66150-00-W	.37
65740-86-W	.35	65816-85-W	.36	65844-85-W	.36	65922-85-W	.36	66010-85-W	.36	66122-85-W	.37	66150-85-W	.37
65740-89-W	.35	65816-89-W	.36	65844-89-W	.36	65922-89-W	.36	66010-89-W	.36	66122-89-W	.37	66150-89-W	.37
65742-00-W	.35	65818-00-W	.36	65846-00-W	.36	65924-00-W	.36	66012-00-W	.36	66124-00-W	.37	66152-00-W	.37
65742-86-W	.35	65818-85-W	.36	65846-85-W	.36	65924-85-W	.36	66012-85-W	.36	66124-85-W	.37	66152-85-W	.37
65742-89-W	.35	65818-89-W	.36	65846-89-W	.36	65924-89-W	.36	66012-89-W	.36	66124-89-W	.37	66152-89-W	.37
65744-00-W	.35	65820-00-W	.36	65848-00-W	.36	65926-00-W	.36	66014-00-W	.36	66126-00-W	.37	66154-00-W	.37
65744-86-W	.35	65820-85-W	.36	65848-85-W	.36	65926-85-W	.36	66016-00-W	.36	66126-85-W	.37	66154-85-W	.37

# EDP Number Index, 66154–78106

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
66154-89-W	.37	66316-89-W	.38	66422-89-W	.38	66510-89-W	.39	66618-89-W	.39	69076-00-W	.11	77972-00-W	.40
66156-00-W	.37	66318-00-W	.38	66424-00-W	.38	66512-00-W	.39	66620-00-W	.39	69077-00-W	.11	77972-85-W	.40
66156-85-W	.37	66318-85-W	.38	66424-85-W	.38	66512-85-W	.39	66620-85-W	.39	69078-00-W	.11	77972-89-W	.40
66156-89-W	.37	66318-89-W	.38	66424-89-W	.38	66512-89-W	.39	66620-89-W	.39	69079-00-W	.11	77973-00-W	.40
66158-00-W	.37	66320-00-W	.38	66426-00-W	.38	66514-00-W	.39	66622-00-W	.39	69080-00-W	.11	77973-85-W	.40
66158-85-W	.37	66320-85-W	.38	66426-85-W	.38	66514-85-W	.39	66622-85-W	.39	69081-00-W	.11	77973-89-W	.40
66158-89-W	.37	66320-89-W	.38	66426-89-W	.38	66514-89-W	.39	66622-89-W	.39	69082-00-W	.11	77974-00-W	.40
66160-00-W	.37	66322-00-W	.38	66428-00-W	.38	66523-00-W	.39	66633-00-W	.39	69083-00-W	.11	77974-85-W	.40
66160-85-W	.37	66322-85-W	.38	66428-85-W	.38	66523-85-W	.39	66633-85-W	.39	69084-00-W	.11	77974-89-W	.40
66160-89-W	.37	66322-89-W	.38	66428-89-W	.38	66523-89-W	.39	66633-89-W	.39	69085-00-W	.11	77975-00-W	.40
66162-00-W	.37	66402-00-W	.38	66430-00-W	.38	66600-00-W	.39	66640-00-W	.39	69086-00-W	.11	77975-85-W	.40
66162-85-W	.37	66402-85-W	.38	66430-85-W	.38	66600-85-W	.39	66640-85-W	.39	69087-00-W	.11	77975-89-W	.40
66162-89-W	.37	66402-89-W	.38	66430-89-W	.38	66600-89-W	.39	66640-89-W	.39	77957-00-W	.40	77976-00-W	.40
66164-00-W	.37	66404-00-W	.38	66432-00-W	.38	66601-00-W	.39	66641-00-W	.39	77957-85-W	.40	77976-85-W	.40
66164-85-W	.37	66404-85-W	.38	66432-85-W	.38	66601-85-W	.39	66641-85-W	.39	77957-89-W	.40	77976-89-W	.40
66164-89-W	.37	66404-89-W	.38	66432-89-W	.38	66601-89-W	.39	66641-89-W	.39	77958-00-W	.40	77977-00-W	.40
66166-00-W	.37	66406-00-W	.38	66434-00-W	.38	66602-00-W	.39	66642-00-W	.39	77958-85-W	.40	77977-85-W	.40
66166-85-W	.37	66406-85-W	.38	66434-85-W	.38	66602-85-W	.39	66642-85-W	.39	77958-89-W	.40	77977-89-W	.40
66166-89-W	.37	66406-89-W	.38	66434-89-W	.38	66602-89-W	.39	66642-89-W	.39	77960-00-W	.40	77978-00-W	.40
66302-00-W	.38	66408-00-W	.38	66436-00-W	.38	66604-00-W	.39	66700-00-W	.39	77960-85-W	.40	77978-85-W	.40
66302-85-W	.38	66408-85-W	.38	66436-85-W	.38	66604-85-W	.39	66700-85-W	.39	77960-89-W	.40	77978-89-W	.40
66302-89-W	.38	66408-89-W	.38	66436-89-W	.38	66604-89-W	.39	66700-89-W	.39	77961-00-W	.40	77979-00-W	.40
66304-00-W	.38	66410-00-W	.38	66500-00-W	.39	66606-00-W	.39	66702-00-W	.39	77961-85-W	.40	77979-85-W	.40
66304-85-W	.38	66410-85-W	.38	66500-85-W	.39	66606-85-W	.39	66702-85-W	.39	77961-89-W	.40	77979-89-W	.40
66304-89-W	.38	66410-89-W	.38	66500-89-W	.39	66606-89-W	.39	66702-89-W	.39	77963-00-W	.40	77980-00-W	.40
66306-00-W	.38	66412-00-W	.38	66501-00-W	.39	66608-00-W	.39	66704-00-W	.39	77963-85-W	.40	77980-85-W	.40
66306-85-W	.38	66412-85-W	.38	66501-85-W	.39	66608-85-W	.39	66704-85-W	.39	77963-89-W	.40	77980-89-W	.40
66306-89-W	.38	66412-89-W	.38	66501-89-W	.39	66608-89-W	.39	66704-89-W	.39	77964-00-W	.40	77981-00-W	.40
66308-00-W	.38	66414-00-W	.38	66502-00-W	.39	66610-00-W	.39	66712-00-W	.39	77964-85-W	.40	77981-85-W	.40
66308-85-W	.38	66414-85-W	.38	66502-85-W	.39	66610-85-W	.39	66712-85-W	.39	77964-89-W	.40	77981-89-W	.40
66308-89-W	.38	66414-89-W	.38	66502-89-W	.39	66610-89-W	.39	66712-89-W	.39	77966-00-W	.40	77982-00-W	.40
66310-00-W	.38	66416-00-W	.38	66504-00-W	.39	66612-00-W	.39	66714-00-W	.39	77966-85-W	.40	77982-85-W	.40
66310-85-W	.38	66416-85-W	.38	66504-85-W	.39	66612-85-W	.39	66714-85-W	.39	77966-89-W	.40	77982-89-W	.40
66310-89-W	.38	66416-89-W	.38	66504-89-W	.39	66612-89-W	.39	66714-89-W	.39	77967-00-W	.40	77983-00-W	.40
66312-00-W	.38	66418-00-W	.38	66506-00-W	.39	66614-00-W	.39	66716-00-W	.39	77967-85-W	.40	77983-85-W	.40
66312-85-W	.38	66418-85-W	.38	66506-85-W	.39	66614-85-W	.39	66716-85-W	.39	77967-89-W	.40	77983-89-W	.40
66312-89-W	.38	66418-89-W	.38	66506-89-W	.39	66614-89-W	.39	66716-89-W	.39	77969-00-W	.40	78105-00-W	.41
66314-00-W	.38	66420-00-W	.38	66508-00-W	.39	66616-00-W	.39	69071-00-W	.11	77969-85-W	.40	78105-85-W	.41
66314-85-W	.38	66420-85-W	.38	66508-85-W	.39	66616-85-W	.39	69072-00-W	.11	77969-89-W	.40	78105-89-W	.41
66314-89-W	.38	66420-89-W	.38	66508-89-W	.39	66616-89-W	.39	69073-00-W	.11	77970-00-W	.40	78106-00-W	.41
66316-00-W	.38	66422-00-W	.38	66510-00-W	.39	66618-00-W	.39	69074-00-W	.11	77970-85-W	.40	78106-85-W	.41
66316-85-W	.38	66422-85-W	.38	66510-85-W	.39	66618-85-W	.39	69075-00-W	.11	77970-89-W	.40	78106-89-W	.41



# EDP Number Index, 78107 – 99046

If the EDP number is known for the desired tool, it can be found in the numeric EDP listing.  
Find the desired EDP number and turn to the corresponding page.

EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG	EDP Number	PG
78107-00-W	.41	78119-00-W	.41	78131-00-W	.41	88090-00-W	.103	97604-00-W	.100	98670-94-W	.99	98914-94-W	.99
78107-85-W	.41	78119-85-W	.41	78131-85-W	.41	88091-00-W	.103	97606-00-W	.100	98710-94-W	.99	98916-94-W	.99
78107-89-W	.41	78119-89-W	.41	78131-89-W	.41	88092-00-W	.103	97608-00-W	.100	98712-94-W	.99	98918-94-W	.99
78108-00-W	.41	78120-00-W	.41	88006-00-W	.103	97402-00-W	.100	97610-00-W	.100	98714-94-W	.99	98920-94-W	.99
78108-85-W	.41	78120-85-W	.41	88007-00-W	.103	97404-00-W	.100	97612-00-W	.100	98716-94-W	.99	98922-94-W	.99
78108-89-W	.41	78120-89-W	.41	88009-00-W	.103	97406-00-W	.100	97614-00-W	.100	98718-94-W	.99	98924-94-W	.99
78109-00-W	.41	78121-00-W	.41	88010-00-W	.103	97408-00-W	.100	97616-00-W	.100	98720-94-W	.99	98926-94-W	.99
78109-85-W	.41	78121-85-W	.41	88012-00-W	.103	97410-00-W	.100	97618-00-W	.100	98722-94-W	.99	98928-94-W	.99
78109-89-W	.41	78121-89-W	.41	88013-00-W	.103	97412-00-W	.100	97620-00-W	.100	98724-94-W	.99	98930-94-W	.99
78110-00-W	.41	78122-00-W	.41	88015-00-W	.103	97414-00-W	.100	97622-00-W	.100	98726-94-W	.99	99014-00-W	.100
78110-85-W	.41	78122-85-W	.41	88018-00-W	.103	97416-00-W	.100	97624-00-W	.100	98728-94-W	.99	99016-00-W	.100
78110-89-W	.41	78122-89-W	.41	88021-00-W	.103	97502-00-W	.100	97626-00-W	.100	98810-94-W	.99	99018-00-W	.100
78111-00-W	.41	78123-00-W	.41	88024-00-W	.103	97504-00-W	.100	97628-00-W	.100	98812-94-W	.99	99020-00-W	.100
78111-85-W	.41	78123-85-W	.41	88027-00-W	.103	97506-00-W	.100	97630-00-W	.100	98814-94-W	.99	99022-00-W	.100
78111-89-W	.41	78123-89-W	.41	88030-00-W	.103	97508-00-W	.100	98110-94-W	.99	98816-94-W	.99	99024-00-W	.100
78112-00-W	.41	78127-00-W	.41	88033-00-W	.103	97510-00-W	.100	98120-94-W	.99	98818-94-W	.99	99034-94-W	.98
78112-85-W	.41	78127-85-W	.41	88036-00-W	.103	97512-00-W	.100	98130-94-W	.99	98820-94-W	.99	99036-94-W	.98
78112-89-W	.41	78127-89-W	.41	88039-00-W	.103	97514-00-W	.100	98510-00-W	.99	98822-94-W	.99	99038-94-W	.98
78113-00-W	.41	78128-00-W	.41	88040-00-W	.103	97516-00-W	.100	98520-00-W	.99	98824-94-W	.99	99040-94-W	.98
78113-85-W	.41	78128-85-W	.41	88042-00-W	.103	97518-00-W	.100	98530-00-W	.99	98826-94-W	.99	99042-94-W	.98
78113-89-W	.41	78128-89-W	.41	88045-00-W	.103	97520-00-W	.100	98540-00-W	.99	98828-94-W	.99	99044-94-W	.98
78114-00-W	.41	78129-00-W	.41	88046-00-W	.103	97522-00-W	.100	98610-94-W	.99	98900-33-W	.99	99046-94-W	.98
78114-85-W	.41	78129-85-W	.41	88048-00-W	.103	97524-00-W	.100	98620-94-W	.99	98901-33-W	.99		
78114-89-W	.41	78129-89-W	.41	88051-00-W	.103	97526-00-W	.100	98630-94-W	.99	98902-33-W	.99		
78115-00-W	.41	78130-00-W	.41	88054-00-W	.103	97528-00-W	.100	98640-94-W	.99	98903-33-W	.98		
78115-85-W	.41	78130-85-W	.41	88057-00-W	.103	97530-00-W	.100	98650-94-W	.99	98910-94-W	.99		
78115-89-W	.41	78130-89-W	.41	88060-00-W	.103	97602-00-W	.100	98660-94-W	.99	98912-94-W	.99		

For additional support and for maximum optimization of your Weldon tools,  
call us toll free at 800.622.7742 and ask to speak to our Technical Support Department.



# How to Order

Ordering is as simple as contacting your local authorized distributor. Alternatively, you can call us directly to get a list of authorized distributors in your area. For technical support, please use the numbers listed below and ask to speak with an applications engineer. Thank you for your business and your support of American manufacturing.



WELDON  
200 FRONT STREET  
MILLERSBURG, PA 17061

PHONE: 800-622-7742  
FAX: 717-692-5270  
[www.endmills.com](http://www.endmills.com)

## Limited Warranty

**Weldon** warrants to original equipment manufacturers, distributors and industrial and commercial users of its products that each new product that it manufactures or supplies is free from defects in material and workmanship. Its sole obligation under this warranty is limited to furnishing, without additional charge, a replacement for, or, at its option, repairing or issuing credit for any such product which shall, within one year from the date of sale by **Weldon** be returned freight prepaid to **Weldon** and which, upon inspection, is determined by **Weldon** to be defective in materials or workmanship. The provisions of this warranty shall not apply to any product which has been subjected to misuse, improper operating conditions, or which has been repaired or altered, if such would adversely affect performance of the product. Complete written information with respect to all such matters must be furnished to **Weldon** as a prerequisite to its consideration of any claim or complaint under this warranty.

The repair, replacement or issuance of credit for parts provided for in this warranty constitutes the Buyer's exclusive remedy. The warranty is in lieu of all other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose. **Weldon** has no liability or responsibility on any claim of any kind, whether in contract, tort or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery or use of any product sold hereunder, in excess of the cost of replacement or repair as provided herein. In no event shall **Weldon** be liable for any special, incidental or consequential damages. **Weldon** makes no other warranty, express or implied, except as set forth above; and neither assumes nor authorizes any other person or entity to assume for it any other obligation or liability in connection with any of its products.

### WARNING

Any cutting tool may break or shatter under improper use. Government regulations require use of safety glasses and other appropriate safety equipment at all times in the vicinity of use. Wet or dry grinding of cutting tools produces potentially hazardous dusts or mists; to avoid adverse health effects, use adequate ventilation and read the material Safety Data Sheet for further applicable tool material or grade before grinding.



**The Weldon Tool Company**

200 Front Street • Millersburg, PA 17061 • Tel: 800.622.7742 • Fax: 717.692.5270

[www.weldontool.com](http://www.weldontool.com)

