

WESTERN ABRASIVES

CUSTOM ENGINEERED ABRASIVES



INTRODUCTION

CUSTOM ENGINEERED ABRASIVES



HISTORY

Western Abrasives has been producing custom resin, hot pressed resin, rubber and fiber abrasive products since 1952. Founded by Dolph Lawrence Craig, the company is now in its 3rd generation of family ownership with Timothy "Dolph" Craig, President and Claudia Fischer, serving as Vice President.



MISSION

To manufacture the highest quality custom engineered abrasives to match the most efficient way to remove metal and give the best finish in the industry. The products have been developed and refined over 60 years. We continually test and work on providing a better product through R&D, as well as educating our customers with exceptional service and demonstrate "TRUE COST SAVINGS".



COMMITMENT

Western Abrasives is committed to serving our distributors and providing their customers with the most advanced mounted points in the industry. With quality control and a liberal sample program, Western Abrasives will often visit the end user with the help of the distributor to spec in the right abrasive for the best performance and true cost savings.



SINGLE SOURCE

Western Abrasives is the only domestic manufacturer who produces resin, hot pressed resin, rubberized and cotton fiber mounted points under one roof, making Western Abrasives the single source for all of your mounted point needs. This is why we have been the industry standard for 3 generations, spanning 60 years. It is the key factor to our success.

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Western Abrasives
1170 NE 63rd Ave
Portland, Oregon 97213 USA

(800) 959-1216 toll free
(503) 234-0733 local
(503) 235-3851 fax

AEROSPACE



PROVIDING LEADING EDGE CUSTOM MOUNTED TOOLS TO THE AEROSPACE INDUSTRY SINCE 1952

WHAT OUR CUSTOMERS ARE SAYING:

"Our relationship with Western Abrasives has lasted for years. They are #1 in the industry. No other company compares to the quality of the Mounted Abrasives they manufacture. Their inventory levels on products we sell enable us to control our inventory by assuring rapid on-time delivery."



W154F.183.46 - Light Green
W174.1825.46 - Orange Light Green

Points shown are not actual size.



Let Us Help Customize
Your Mounted Abrasives
Email: sales@westernabrasives.com

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Chances are if you have flown in an airplane our abrasives have helped in some way to put it in the air. With our hot pressed resin mounted points we help these

aerospace companies provide a faster cut rate with twice the life of vitrified abrasives. This is a highly regulated industry and products have to achieve

the highest of standards and tolerances. Our hot pressed resin mounted points help achieve this standard and have been an industry standard for over 50 years.

PERFORMANCE

WESTERN ABRASIVES PRODUCTS ARE BUILT TO PERFORM. WE HAVE A LONG HISTORY OF EXPECTING AND DELIVERING EXCELLENCE!

BOND RECOMMENDATIONS:

- Light Green
- Orange / Light Green
- Red / Light Green
- Blue
- Green / Yellow
- Red / Gold
- Fiber 1
- Silver



www.westernabrasives.com

STAINLESS STEEL

WESTERN ABRASIVES CONTINUES TO SET THE STANDARD FOR PRECISION MOUNTED STAINLESS TOOLS

WHAT OUR CUSTOMERS ARE SAYING:

"We have been doing business with Western Abrasives since 1992. Western Abrasives has competitive pricing, speedy delivery and has earned an excellent reputation for quality. The Customer Service Department representatives are professional and knowledgeable about their products. We will continue to do business with Western Abrasives for many years to come."



A3M.14.36 - Yellow
W222G.14.46 - Silver
W164.14.36 - Green White

Points shown are not actual size.



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When dining at your favorite restaurant take a look around at the kitchen equipment. We have been providing cost savings and the best finish in the industry with our

resin and rubber mounted points. The advantages of rubberized deburring and blending welds on stainless steel equipment have been a proven method of finishing

for companies that provide this equipment to the largest users in the restaurant industry.

COMMITMENT

WESTERN ABRASIVES IS COMMITTED TO EXCELLENCE AND INNOVATION BY RESPONDING TO THE NEEDS OF OUR DISTRIBUTORS AND END USERS!

BOND RECOMMENDATIONS:

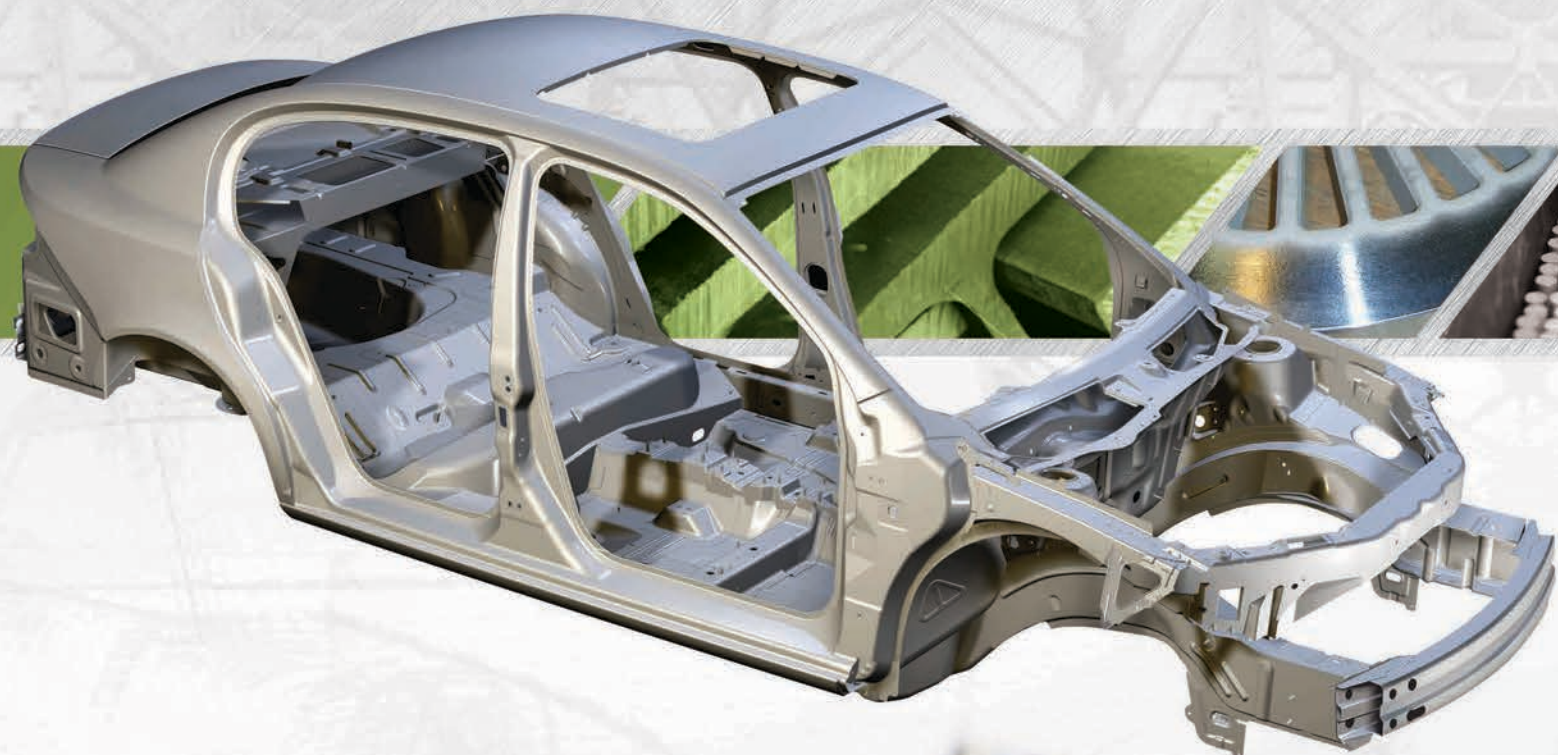
- Yellow
- Yellow Q
- Green White
- Silver
- Red Rubber
- Fiber 1

MOLD & DIE

THE LONGEST-LASTING GRINDING TOOLS... TO HANDLE THE BIGGEST PROJECTS

WHAT OUR CUSTOMERS ARE SAYING:

"Western Abrasives has been providing us with the best mounted points for over 30 years. They give us what we need... when we need it!"



W163.18.80 - Silver
W163.18.120 - Fiber I

Points shown are not actual size.



Western Abrasives has had its hand in the automotive industry as well, and quality is demanded on the production line. Western Abrasives has been providing its cotton fiber

and rubber mounted points to the automotive industry for generations. America's love of cars has helped us develop and provide the most cost effective cotton fiber and rubber

mounted points in the industry. Our cotton fiber and rubber mounted points assist in grinding and polishing the many varieties of molds produced in this demanding industry.

VALUE

WESTERN ABRASIVES COTTON FIBER MOUNTED POINTS CONTINUE TO SERVE AS THE VALUE LEADER FOR THE MOLD AND DIE INDUSTRY.

BOND RECOMMENDATIONS:

- Fiber I
- Fiber O
- Silver
- Red / White

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FOUNDRY

CUSTOM MOUNTED TOOLS TO MEET EVERY NEED OF THE CAST INDUSTRY.

WHAT OUR CUSTOMERS ARE SAYING:

"We are new to Western Abrasives and I can instantly see why distributors use their expertise. We were stuck running around and competing with other distributors for the same mounted points. When we discovered Western it was apparent that they could customize a mounted point that fit our needs...And we got a premium product for a competitive price. Thanks Western!"

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From digger teeth to pump casings and impellers, to engine blocks and valve bodies, Western Abrasives has been grinding scale and removing burned-in

sand for the foundry industry for decades. Western Abrasives high quality resin cones, stones, and plug wheels are designed and engineered to meet your specific

requirements. Western Abrasives manufactures products with the longest life and fastest cut rates.

RELIABILITY

WESTERN ABRASIVES BELIEVES THAT RELIABLE, CONSISTENT PRODUCTS AND SERVICE PRODUCE SAVINGS YOU CAN DEPEND ON.

BOND RECOMMENDATIONS:

- Blue
- Yellow NZ
- Red B
- Red
- Junk Yard Dog (Finish)

JUNK YARD DOG
T16, T17, T18

Points shown are not actual size.



COLOR CODES

HOW TO ORDER

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		HARDNESS	TITANIUM	INCONEL / 718 / 17-4 STAINLESS	STEEL CASTINGS	HIGH COBALT	STAINLESS STEEL CASTINGS	CAST IRON	ALUMINUM CASTINGS	STAINLESS STEEL FABRICATION	MOLD & DIE STEELS	GRIT TYPE	
RESIN BONDS													
BLUE	SOFT												RW Soft aggressive cutting action, works on most materials
YELLOW GREEN													RW Aggressive cutting action, slightly harder than blue
GREEN													WW Special Aluminum Oxide for soft fast cutting of stainless steel
GREEN WHITE													WW Slightly Harder version of Green for smaller diameter wheels
RED													RW Medium hardness, good general purpose wheel for ferrous metals
RED WHITE													RW Slightly harder version of Red for smaller wheels – great for die steel
RED B													RW Fast cutting for stainless steel with improved life
YELLOW													RW Premium Grain for fast aggressive cutting
YELLOW NZ													NZ Long Lasting bond for stainless steel.
YELLOW Q													RW Long Lasting bond for stainless steel
BROWN													RW For larger diameter points on stainless steel
GREY													RW One of our hardest bonds, mostly for small diameter wheels
SC GREY	HARD												SC Same as Grey with silicon carbide grain
HOT PRESS RESIN BONDS													
ORANGE / DARK BLUE	SOFT												RW/SC Hard wheel for foundry and stainless steel fabrication
LIGHT GREEN													RW Hard dense material for smaller wheels used in aerospace applications.
ORANGE / LIGHT GREEN													WW Same as Light Green with white grain for a more friable wheel
RED / LIGHT GREEN	HARD												CU Premium ceramic grain for cool cutting and hard aerospace materials
RUBBER BONDS													
SILVER BLUE	SOFT												RW Softest rubber, excellent for polishing on all surfaces.
SILVER													RW Our most common material for blending and deburring
RED RUBBER													RW Slightly harder version of Silver
RED / GOLD													RW Rubber/Resin blend for a resin cut with a rubber finish
SILVER / RED	HARD												RW Very hard and aggressive snagging rubber wheel
COTTON FIBER BONDS													
H	SOFT												RW Soft blending and deburring
I													RW Medium blending and deburring
O	HARD												RW Hard blending and deburring

TECHNICAL SUPPORT

Our team of engineers has over 80 years combined abrasive experience. We have served on many corporate research and development product improvement teams. Drawing from that experience we will be able to answer your technical questions and solve any problems related to abrasives and provide a product for your specific requirement.

COMPETITIVE COMPARISON

POINT USED		PARTS GROUND	
Competitor	WESTERN	Competitor	
VITRIFIED	RESIN	VITRIFIED	RESIN
93	34	25	39
73	31	37	38
43	17	35	30
209	82	97	107

MONTHLY AVERAGE USAGES (WESTERN 3-1):

	WESTERN	VITRIFIED	Competitor
W154	9,278	27,834	
W154	3,533	10,599	
B97-B98	2,222	6,666	
B53-B52	1,156	3,468	
TOTAL:	16,189	48,567	

PRODUCT SELECTION EXAMPLE:

- 1 SELECT A SHAPE
Type: W-220
- 2 SELECT A SHANK / NUT INSERT SIZE
Shank: 1/8" or 1/4" (3mm - 6mm)
Nut: 5/8" - 11 or 3/8" - 24
- 3 SELECT A GRIT SIZE
16 Grit THROUGH 320 Grit
- 4 SELECT A GRIT TYPE
RW, SC, WW, NZ, CU
- 5 SELECT A BOND / COLOR CODE
• Resin • Hot Press Resin • Rubber
• Cotton Fiber • Unitized
- 6 WHAT IT LOOKS LIKE
Part# - W220.14.36.RED

SAFETY INFORMATION

Mounted Points - Maximum RPM ratings provided in this catalog are for resin and vitrified bonds. Rubber and fiber bonds have lower RPM rating and may be shipped with a lower RPM rating.

- Shank overhangs greater than 1/2" require reduced RPM. Refer to ANSI safety code or tag on shipping box.
- Nuisance dust is created during grinding operations which may cause eye, skin or respiratory irritation.
- Recommended personal protection equipment includes: safety glasses, hearing protection and dust mask.
- Refer to the material safety data sheet for more information.



SAMPLE REQUESTS

GROUP PROFILES

QUESTIONS:

A GROUP

Let Us Help Customize Your Mounted Abrasives

TO RECEIVE FREE SAMPLES,
EMAIL YOUR ANSWERS TO THE
FOLLOWING QUESTIONS TO
SALES@WESTERNABRASIVES.COM

WESTERN ABRASIVES CUSTOMIZES
ITS ABRASIVES TO ACHIEVE THE
MOST COST EFFECTIVE WAY TO
GET THE JOB DONE.

- ① WHAT TYPE OF METAL IS BEING GROUND?
- ② WHAT ARE THEY WANTING IT TO DO?
(REMOVING WELDS, DE-BURR, BLEND,
POLISH, FINISH REQUIREMENTS)
- ③ WHAT SPEED ARE THEY RUNNING?
- ④ DESIRED SHAPE?
- ⑤ SHANK?
- ⑥ GRIT?
- ⑦ IF KNOWN, WHAT ARE THEY CURRENTLY
USING FOR THE APPLICATION?
(BRAND, SHAPE, BOND, GRIT,)

A1	A2	A3	A3M	A4	A5	A6
MOS: 19,800	38,200	16,100	16,100	30,560	45,000	39,000
A11	A12	A13	A14	A15	A21	A22
MOS: 19,860	48,000	33,950	55,560	72,750	34,500	50,930
A23	A24	A25	A26	A31	A32	A33
MOS: 39,370	76,500	35,620	61,120	27,780	38,200	38,200
A34	A35	A36	A37	A38	A39	
MOS: 25,470	38,200	23,520	30,560	34,500	47,250	

A GROUP NOTE: For specific applications requiring large size, shaped mounted points. The standard shank size is 1 1/4" x 1-1/2".
Other shapes or variations in size are available on request.

*Shank overhang greater than 1/2" require reduced RPM. Refer to A.N.S.I. safety code or tag on shipping box

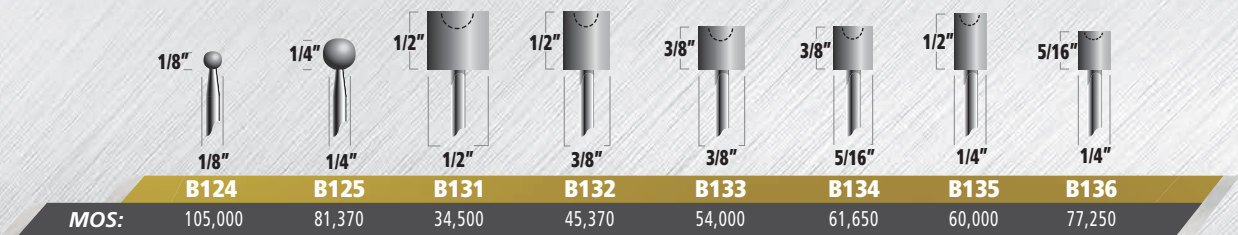
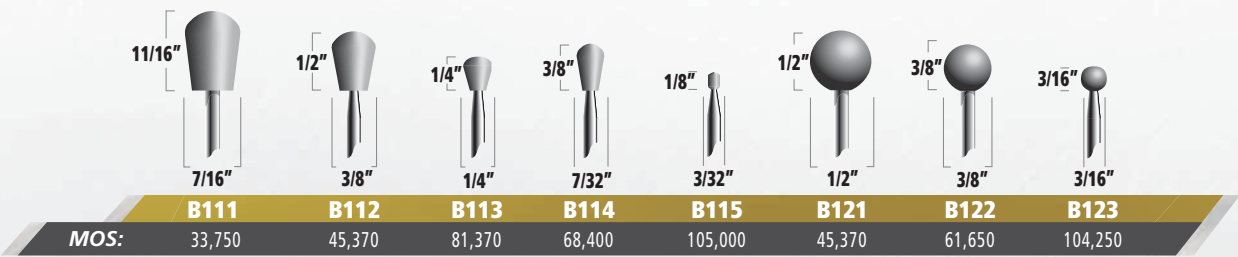
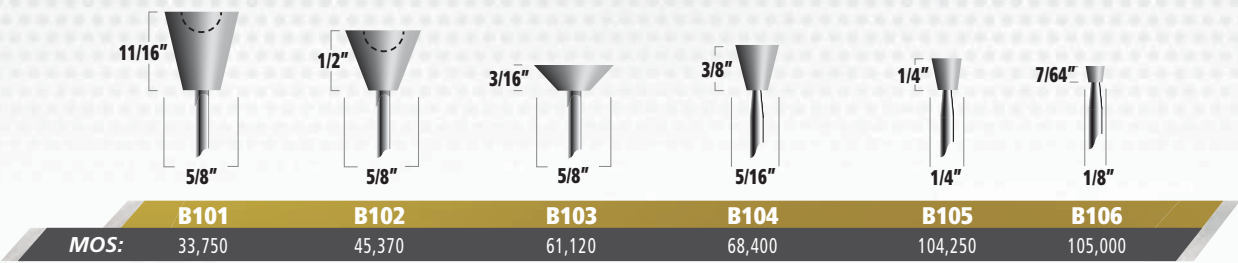
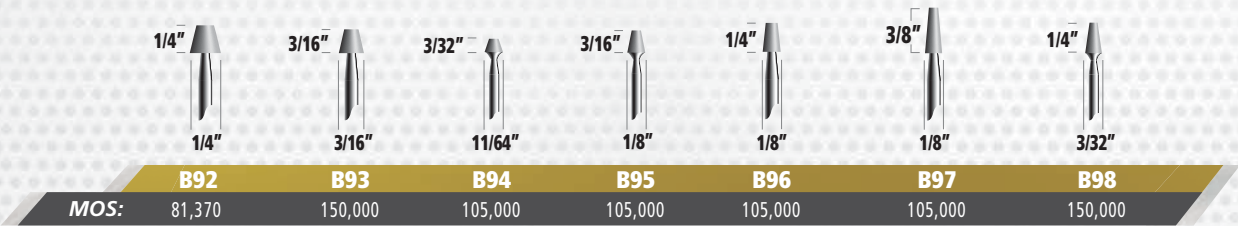
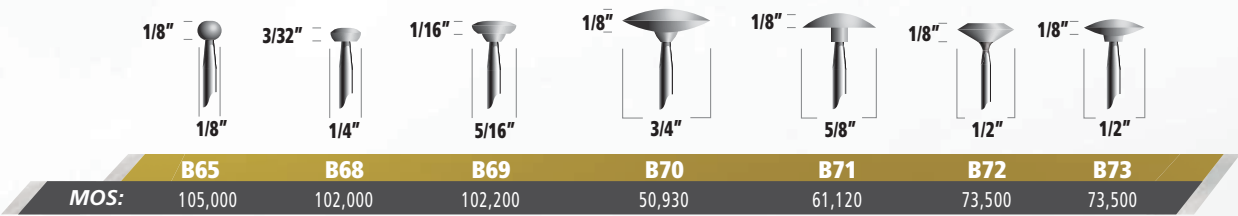
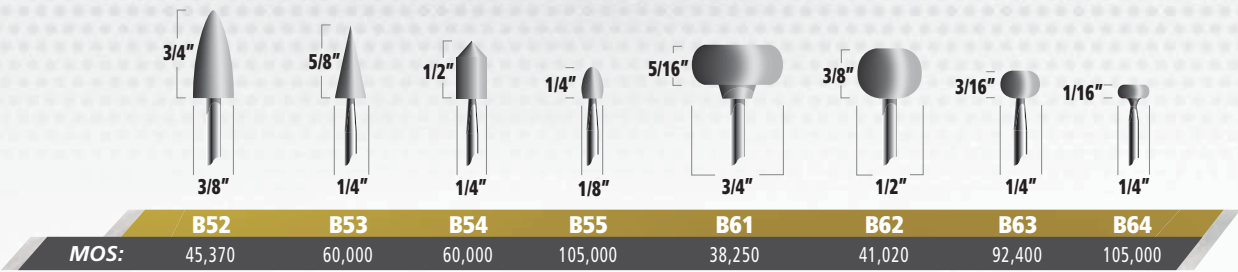
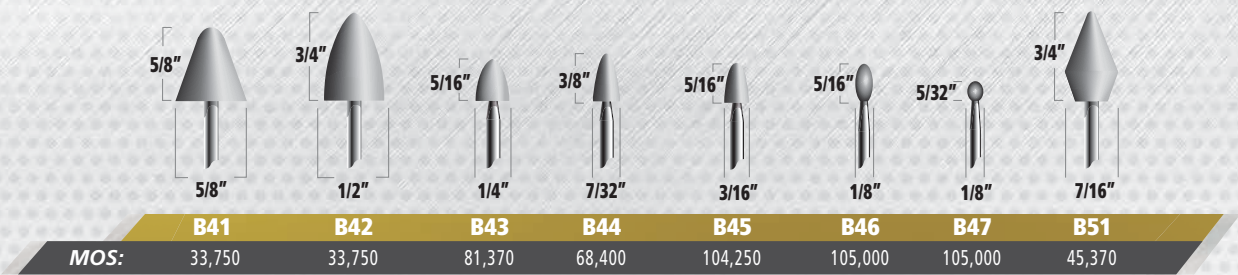


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B GROUP

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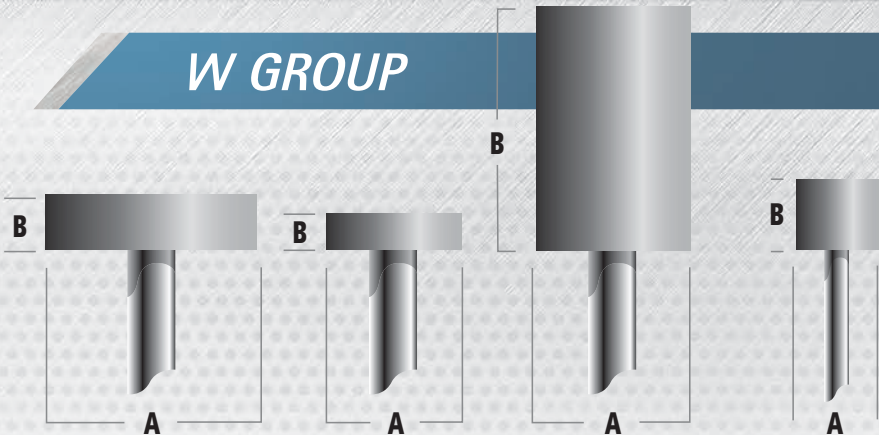


B GROUP NOTE: For high speed, special applications; used for narrow space, inside corners and other hard-to-reach areas.
The standard shank size is 1/8" x 1-1/2". Other sizes are available on request.
*Shank overhang greater than 1/2" require reduced RPM. Refer to A.N.S.I safety code or tag on shipping box

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W GROUP



GROUP W
Straight dimensional for general applications. Wheels up to 1/4" diameter use a 1/8" x 1-1/2" shank. Standard for all other applications is a 1/4" x 1-1/2" shank, unless otherwise specified. For special applications contact Technical Support.

SHAPE NUMBER	A DIA.	B LENGTH	M.O.S. 1/8"	M.O.S. 1/4"
W142	3/32	1/4	105,001	–
W143	1/8	1/8	105,000	–
W144	1/8	1/4	105,000	–
W145	1/8	3/8	105,000	–
W146	1/8	1/2	105,000	–
W151	3/16	1/8	105,000	–
W152	3/16	1/4	105,000	–
W153	3/16	3/8	80,850	–
W154	3/16	1/2	70,500	–
W157	1/4	1/16	123,000	–
W158	1/4	1/8	105,000	–
W159	1/4	3/16	92,400	–
W160	1/4	1/4	81,370	–
W161	1/4	5/16	77,250	–
W162	1/4	3/8	68,400	–
W163	1/4	1/2	60,000	–
W164	1/4	3/4	45,900	45,900
W165	5/16	1/16	107,400	–
W166	5/16	1/8	96,970	–
W167	5/16	1/4	75,000	–

SHAPE NUMBER	A DIA.	B LENGTH	M.O.S. 1/8"	M.O.S. 1/4"
W168	5/16	5/16	68,400	–
W169	5/16	3/8	61,650	–
W170	5/16	1/2	52,500	–
W171	5/16	3/4	37,120	–
W172	3/8	1/16	99,370	–
W173	3/8	1/8	87,600	–
W174	3/8	1/4	69,000	–
W175	3/8	3/8	54,000	–
W176	3/8	1/2	45,370	81,000
W177	3/8	3/4	33,750	66,000
W178	3/8	1	26,250	55,200
W179	3/8	1-1/4	–	45,750
W181	1/2	1/16	76,390	–
W182	1/2	1/8	73,500	76,390
W183	1/2	1/4	51,750	76,390
W184	1/2	3/8	41,020	71,250
W185	1/2	1/2	34,500	61,500
W186	1/2	3/4	26,250	51,000
W187	1/2	1	20,620	40,500
W188	1/2	1-1/2	–	30,370

SHAPE NUMBER	A DIA.	B LENGTH	M.O.S. 1/8"	M.O.S. 1/4"
W189	1/2	2	–	24,000
W190	5/8	1/16	61,120	61,120
W191	5/8	1/8	58,870	61,120
W192	5/8	1/4	43,120	61,120
W193	5/8	3/8	32,250	61,120
W194	5/8	1/2	29,400	56,400
W195	5/8	3/4	22,120	46,500
W196	5/8	1	17,620	35,250
W197	5/8	2	–	21,000
W198	5/8	2-1/2	–	16,500
W199	3/4	1/16	50,930	–
W200	3/4	1/8	50,930	–
W201	3/4	1/4	38,250	50,930
W202	3/4	3/8	30,600	50,930
W203	3/4	1/2	25,500	50,930
W204	3/4	3/4	18,900	42,750
W205	3/4	1	–	34,500
W206	3/4	1-1/4	–	28,720
W207	3/4	1-1/2	–	24,000
W208	3/4	2	–	18,750
W209	3/4	2-1/2	–	15,000
W210	7/8	1/16	43,650	–
W211	7/8	1/8	43,650	43,650
W212	7/8	1/4	33,750	43,650
W213	7/8	3/8	27,000	43,650
W215	1	1/8	38,200	38,200
W216	1	1/4	30,520	38,200
W217	1	3/8	–	38,200
W218	1	1/2	–	38,200
W219	1	3/4	–	35,100

SHAPE NUMBER	A DIA.	B LENGTH	M.O.S. 1/8"	M.O.S. 1/4"
W220	1	1	–	25,500
W221	1	1-1/2	–	19,120
W222	1	2	–	15,900
W223	1	2-1/2	–	12,370
W225	1-1/4	1/4	–	30,560
W226	1-1/4	3/8	–	30,560
W227	1-1/4	1/2	–	30,560
W228	1-1/4	3/4	–	30,520
W229	1-1/4	1	–	24,000
W230	1-1/4	1-1/4	–	20,400
W231	1-1/4	1-1/2	–	17,620
W232	1-1/4	2	–	14,250
W235	1-1/2	1/4	–	25,470
W236	1-1/2	1/2	–	25,470
W237	1-1/2	1	–	22,500
W238	1-1/2	1-1/2	–	15,600
*W239	1-1/2	2	–	12,750
*W240	1-1/2	2-1/2	–	10,500
*W241	1-1/2	3	–	9,000

ORDER BY DIMENSIONS

	2	1/4		19,100
	2	3/8		19,100
	2	1/2		19,100
W242	2	1	–	19,100
*W243	2	1-1/2	–	14,500
*W244	2	2	–	11,750
*W245	2	2-1/2	–	9,600
*W246	2	3	–	8,250

* 3/8" shank



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