

**sgspro**  
part of the  **group**



New Product Catalogue (Metric)

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

 **group**



## Research & Development

By continuously improving the shape, fluting, spiral and rake angles and concentricity of our burs, our experienced R&D team focus on developing new design geometries to optimise our customers' processes.

## Raw Material

As part of our manufacturing process, we have developed strong relationships with key global suppliers to ensure that our selection of high quality micro-grain carbide remains consistent and to the highest standard.

## Brazing Process

An important stage within our manufacturing process, our brazing operation focuses on alignment control, ensuring a brazed product free of contamination.

## Grinding

Our manufacturing facilities are equipped with state-of-the-art CNC machines, operated and maintained by highly skilled operators and maintenance engineers.

## Inspection

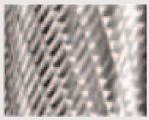

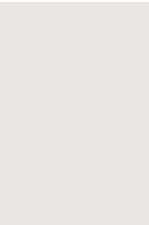



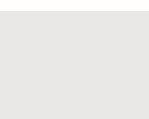
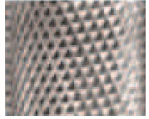
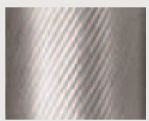
We want to create outstanding benefit for our customers and, therefore, quality management is part of our company culture. We not only test and measure quality, but we live it. Quality checks are carried out throughout the manufacturing process.

## Service

Based on our knowledge and technical expertise, our approach through clear procedures ensures that the work we conduct for customers brings value.

# HOW TO SELECT YOUR BUR



Applications	Material	Cut	
<b>Efficient stock removal</b> - deburring, finishing, cleaning.	Ferrous metals Non-ferrous metals	Double Cut - CUT 6 (D/C)	
<b>Heavy stock removal</b> - deburring, milling, cleaning, machining	Non-ferrous metal: aluminium alloys Plastics	Non-ferrous - CUT 1 (NF)	
<b>Heavy stock removal</b> - deburring, milling.	Non hardened steel <45HRc Hardened steel >45HRc: stainless steel High temperature-resistant metals: nickel, cobalt, titanium. Non-ferrous light metals: brass, copper, zinc. Hardened >45HRc: cast iron	Omega Cut - (DDC)	
<b>Medium stock removal</b> - deburring, milling, cleaning, finishing.	Non-ferrous light metals: brass, copper, zinc Plastics Hard Rubber	Coarse Cut - CUT 2 (C/C)	
<b>Medium stock removal</b> - deburring, milling, cleaning, finishing.	Non hardened steel <45HRc Hardened steel >45HRc: stainless steel High temperature-resistant metals: nickel, cobalt, titanium. Non-ferrous light metals: brass, copper, zinc. Hardened >45HRc: cast iron	Single Cut - CUT 3 (S/C)	
<b>Medium stock removal</b> - deburring, milling, cleaning, finishing.	Non hardened steel <45HRc Non-ferrous light metals: brass, copper, zinc. Steel - Hardened >45HRc: cast iron	Chip Breaker - CUT 3 SP (C/B)	
<b>Medium stock removal</b> - deburring, milling, cleaning, finishing.	Composite, Carbon Fibreglass	FGR - (FGR)	
<b>Light stock removal</b> - fine deburring, fine finishing	Ferrous metals Fibreglass Hardened steel >45HRc High temperature-resistant metals: nickel, cobalt.	Diamond Cut - CUT 4 (DIA)	
<b>Light stock removal</b> - fine deburring, fine finishing	Hardened steel >45HRc	Fine Cut - CUT 5 (F/C)	



## The way to use the speed guide below:

1. Select application and material group
2. Identify the appropriate cut style. Please refer to previous page to match your application and the appropriate cutting style.
3. Identify recommended cutting speed.
4. Select bur diameter.
5. Follow maximum rotational speed.

MATERIAL GROUP 1		CUT STYLES 2							
Super Alloy Materials	Cut 3/5/6/4								
Hardened steel >45HRC		Omega Cut 3/3SP/5/6							
Non hardened steel <45HRC				Omega CUT 3 - 3SP - 6					
High temperature-resistant materials	Omega CUT 3 - 3SP - 6								
Non-ferrous metals				Cut 1					
Non-ferrous light metals					Cut 1		Cut 2 - 3SP - 6		
Plastics, Hard rubber						Cut 1 - 2			
Fibreglass						Cut 4 (FGR)			

RECOMMENDED CUTTING SPEED 3									
METRIC (m/min)	420	480	540	600	660	720	780	840	900
FRACTIONAL (SFM)	1400	1600	1800	2000	2200	2400	2600	2800	3000

BUR DIAMETER 4		MAXIMUM ROTATIONAL SPEED (RPM) 5								
Imperial (Inch)	Metric (mm)									
< 1/8	< 3	45,000	53,000	60,000	66,000	73,000	79,000	86,000	92,500	100,000
3/16	5	35,000	40,000	45,000	50,000	55,000	60,000	65,000	70,000	75,000
1/4	6	26,000	30,000	34,000	37,500	41,500	45,000	49,000	52,500	55,000
5/16	8	21,000	24,000	27,000	30,000	33,000	36,000	39,000	42,000	45,000
3/8	10	17,500	20,000	22,500	25,000	27,500	30,000	32,500	35,000	37,500
1/2	12	13,000	15,000	17,000	19,000	20,500	22,500	24,500	26,000	28,000
5/8	15	10,500	12,000	13,500	15,000	16,500	18,000	19,500	21,000	22,500
3/4	20	9,000	10,000	11,000	12,500	14,000	15,000	16,250	17,500	19,000
1	25	6,500	7,500	8,500	9,500	10,500	11,000	12,000	13,000	14,000

Please note that all cuts available are not displayed in this product catalogue. Please contact ATA Customer Service to discuss your specific requirements.

# SGSPRO BUR SHAPES



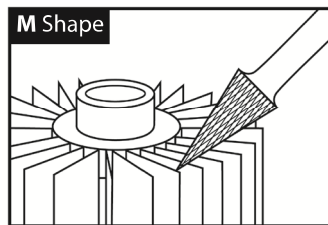
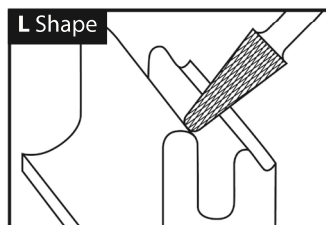
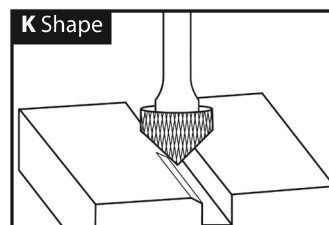
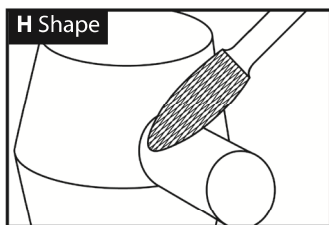
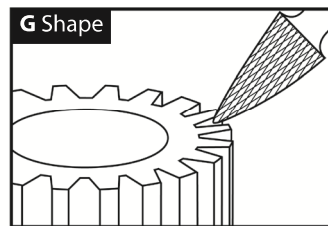
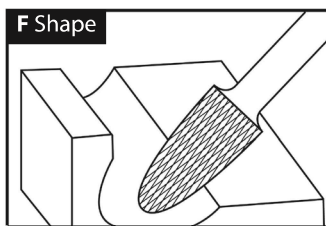
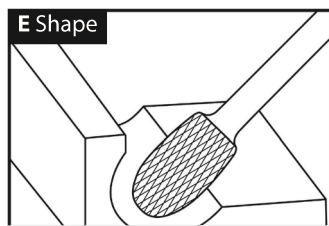
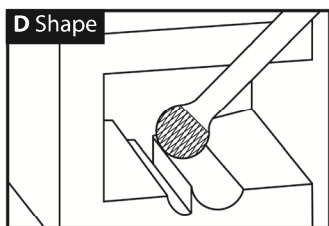
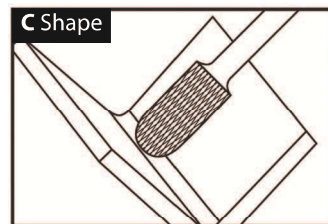
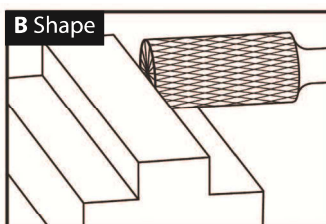
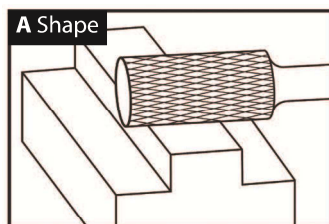
**SGSPRO** tungsten carbide burs are manufactured in compliance with the highest standards. Our comprehensive product portfolio offers a broad range of reliable and market-proven solutions for every application. Our know-how and expertise allow us to continuously improve our offering to provide outstanding quality and deliver excellent performance across a wide range of industries, optimizing processes in regards to economic efficiency, safety and process optimisation.

## Customer Support

Our customer service team is available to answer any questions you may have. Our technical support team is available to discuss any requirements you may have and provide you with a tailor-made solution. For more information and / or to place an order, please contact ATA Customer Service at +1 330-928-7744 or by email [sales@atatools.com](mailto:sales@atatools.com)

## Application Tips

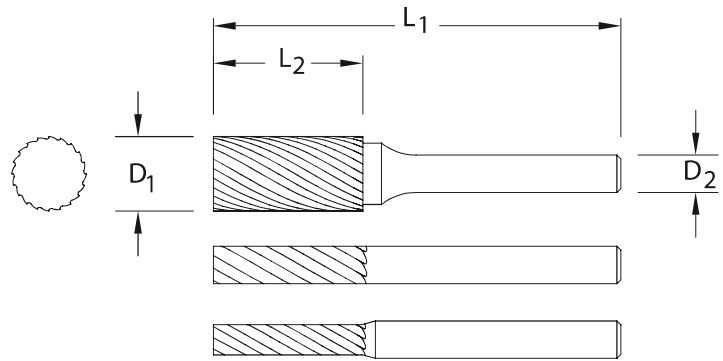
- Use lubricant or wax to prevent flute loading in soft materials.
- Using the recommended speed prevents premature wear and/or insufficient material removal rates.
- Maintain grinder concentricity to optimize material removal rates and extend bur life.
- Reduce flutes and increase speed in softer materials. Increase flutes and reduce speed in hardened materials.
- Cross cut styles (6, 3SP, 4) generally improve stock removal, control, and reduce chip size.





- Solutions for universal applications
- High quality ensuring reliability

# UNIVERSAL RANGE



## Universal SA - Cylinder Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SA-41M	1,5	6	3	38	20603	20600	–
SA-41ML2	1,5	6	3	50	27103	27100	–
SA-41ML3	1,5	6	3	75	27128	27125	–
SA-42M	2,5	11	3	38	20628	20625	–
SA-42ML2	2,5	11	3	50	27153	27150	–
SA-42ML3	2,5	11	3	75	27178	27175	–
SA-43M	3	14	3	38	20653	20650	–
SA-43ML2	3	14	3	50	27203	27200	–
SA-43ML3	3	14	3	75	27228	27225	–
SA-11M	3	12	6	56	20403	20400	–
SA-12M	3	16	6	60	20428	20425	–
SA-52M	4	12,7	3	38	20703	20700	–
SA-13M	4	16	6	50	20453	20450	–
SA-53M	5	12,7	3	38	20728	20725	–
SA-14M	5	16	6	50	20478	20475	–
SA-1M	6	16	6	50	20003	20000	–
SA-1MNF	6	19	6	50	–	–	29000
SA-1ML	6	25	6	50	20028	20025	–
SA-1ML6	6	12,7	6	162	26178	26175	–



## Recommended Air Tools

### FEATURES

From finishing to stock removal

### TOOL

Die Grinders



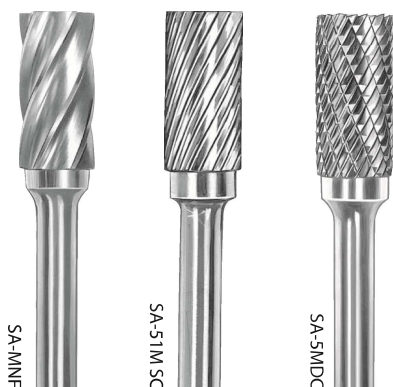
Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!

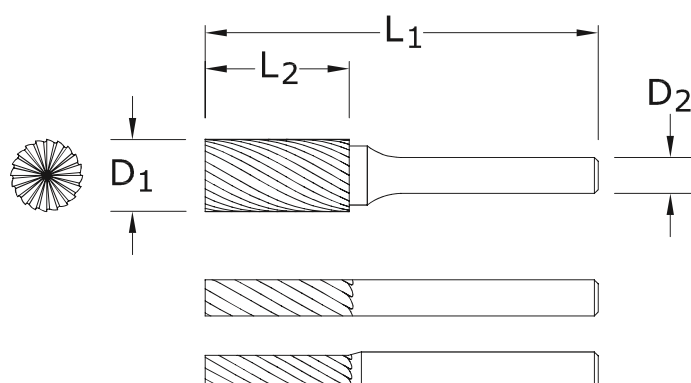


### Universal SA - Cylinder Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SA-51M	6,3	12,7	3	50	20678	20675	–
SA-2M	8	19	6	63	20053	20050	–
SA-3M	9,5	19	6	63	20078	20075	–
SA-3MNF	9,5	19	6	63	–	–	29002
SA-3ML	9,5	25	6	69	20103	20100	–
SA-3ML6	9,5	19	6	169	26203	26200	–
SA-3MZ	10	20	6	60	29101	29100	–
SA-4M	11	25	6	69	20153	20150	–
SA-5MZ	12	25	6	65	29105	29104	–
SA-5M	12,7	25	6	69	20178	20175	–
SA-5MNF	12,7	25	6	69	–	–	29004
SA-5ML6	12,7	25	6	175	26228	26225	–
*SA-6M	16	25	6	69	20203	20200	–
*SA-6MNF	16	25	6	69	–	–	29006
*SA-7M	19	25	6	69	20253	20250	–
*SA-7MNF	19	25	6	69	–	–	29008
SA-7MNF	19	25	8	69	–	–	29010
*SA-9M	25	25	6	69	20353	20350	–

\* 8 mm shanks optional

## UNIVERSAL SB



### Universal SB - Cylinder Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SB-41M	1,5	6	3	38	21453	21450	–
SB-41ML2	1,5	6	3	50	27253	27250	–
SB-41ML3	1,5	6	3	75	27278	27275	–
SB-42M	2,5	11	3	38	21478	21475	–
SB-42ML2	2,5	11	3	50	27303	27300	–
SB-42ML3	2,5	11	3	75	27328	27325	–
SB-ECOM	3	–	3	38	–	21525	–
SB-43M	3	14	3	38	21503	21500	–
SB-43ML2	3	14	3	50	27353	27350	–
SB-43ML3	3	14	3	75	27378	27375	–
SB-11M	3	12	6	56	21253	21250	–
SB-12M	3	16	6	60	21278	21275	–
SB-13M	4	16	6	50	21303	21300	–
SB-14M	5	16	6	50	21328	21325	–
SB-1M	6	16	6	50	20853	20850	–
SB-1MNF	6	19	6	50	–	–	29012
SB-1ML	6	25	6	50	20873	20875	–
SB-51M	6,3	4,7	3	43	21553	21550	–
SB-2M	8	19	6	63	20903	20900	–



### Recommended Air Tools

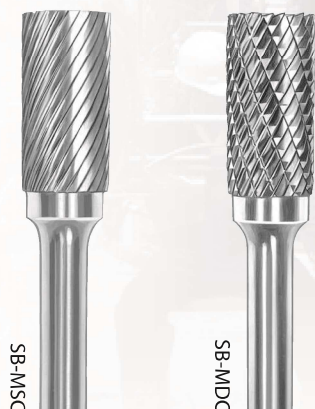
#### FEATURES

From finishing to stock removal

#### TOOL

Die Grinders





### Universal SB - Cylinder Shape

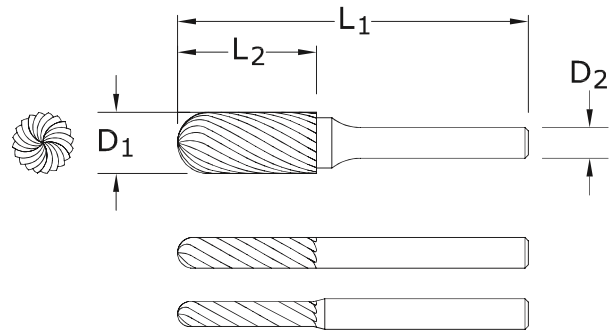
Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SB-3M	9,5	19	6	63	20928	20925	–
SB-3MNF	9,5	19	6	63	–	–	29014
SB-3ML	9,5	25	6	69	20953	20950	–
SB-3MZ	10	20	6	60	29109	29108	–
SB-4M	11	25	6	69	21003	21000	–
SB-5MZ	12	25	6	65	29113	29112	–
SB-5M	12,7	25	6	69	21028	21025	–
SB-5MNF	12,7	25	6	69	–	–	29016
*SB-6M	16	25	6	69	21053	21050	–
*SB-6MNF	16	25	6	69	–	–	29018
*SB-7M	19	25	6	69	21103	21100	–
*SB-7MNF	19	25	6	69	–	–	29020
SB-7MNF	19	25	8	69	–	–	29022
*SB-9M	25	25	6	69	21203	21200	–

\* 8 mm shanks optional

## Ordering Information

For more information and / or to place an order, please contact  
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## Universal SC - Cylinder Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SC-41M	2,5	11	3	38	22253	22250	–
SC-42M	3	14	3	38	22278	22275	–
SC-42ML2	3	14	3	50	27453	27450	–
SC-42ML3	3	14	3	75	27478	27475	–
SC-11M	3	12	6	56	22053	22050	–
SC-12M	3	16	6	60	22078	22075	–
SC-52M	4	12,7	3	38	22328	22325	–
SC-13M	4	16	6	50	22103	22100	–
SC-53M	5	12,7	3	38	22353	22350	–
SC-14M	5	16	6	50	22128	22125	–
SC-1M	6	16	6	50	21703	21700	–
SC-1MNF	6	19	6	50	–	–	29024
SC-1ML	6	25	6	50	21728	21725	–
SC-1ML6	6	12,7	6	162	26328	26325	–
SC-51M	6,3	12,7	3	50	22303	22300	–
SC-2M	8	19	6	63	21753	21750	–



## Recommended Air Tools

### FEATURES

From finishing to stock removal

### TOOL

Die Grinders



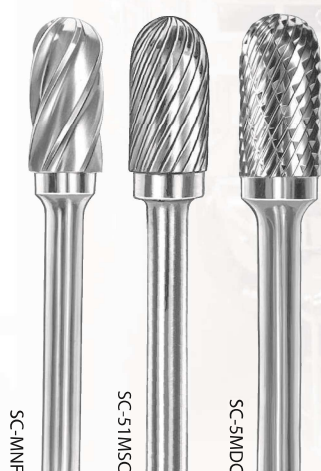
Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



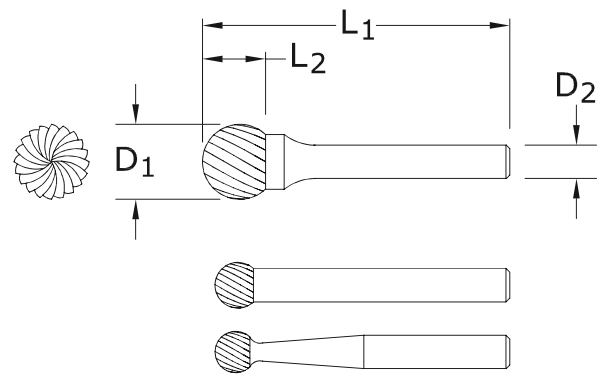
### Universal SC - Cylinder Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SC-3M	9,5	19	6	63	21778	21775	–
SC-3MNF	9,5	19	6	63	–	–	29026
SC-3ML	9,5	25	6	69	21803	21800	–
SC-3ML6	9,5	19	6	169	26353	26350	–
SC-3MZ	10	20	6	60	29117	29116	–
SC-4M	11	25	6	69	21853	21850	–
SC-5MZ	12	25	6	65	29121	29120	–
SC-5M	12,7	25	6	69	21878	21875	–
SC-5ML6	12,7	25	6	175	26378	26375	–
SC-5MNF	12,7	25	6	69	–	–	29028
*SC-6M	16	25	6	69	21903	21900	–
*SC-7M	19	25	6	69	21953	21950	–
*SC-7MNF	19	25	6	69	–	–	29032
SC-7MNF	19	25	8	69	–	–	29034
*SC-9M	25	25	6	69	22003	22000	–

\* 8 mm shanks optional

## Ordering Information

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## Universal SD - Ball Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SD-41M	2,5	2,3	3	38	22778	22775	–
SD-42M	3	2,8	3	38	22803	22800	–
SD-42ML2	3	2,8	3	50	27553	27550	–
SD-42ML3	3	2,8	3	75	27578	27575	–
SD-11M	3	2,8	6	50	22728	22725	–
SD-52M	4	3,4	3	38	22840	22837	–
SD-53M	5	4,7	3	38	22853	22850	–
SD-14M	5	4	6	50	22753	22750	–
SD-1M	6	5	6	50	22453	22450	–
SD-1ML6	6	5	6	155	26403	26400	–
SD-1MNF	6	5	6	50	–	–	29036
SD-51M	6,3	5	3	44	22828	22825	–
SD-2M	8	6,4	6	50	22478	22475	–
SD-3M	9,5	8	6	52	22503	22500	–



## Recommended Air Tools

### FEATURES

From finishing to stock removal

### TOOL

Die Grinders



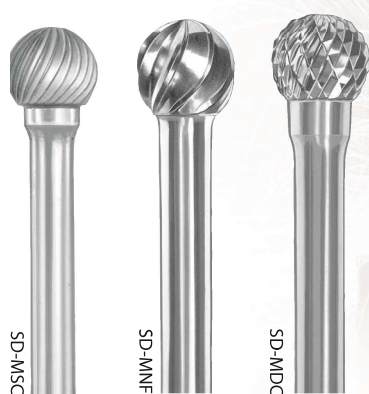
Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



### Universal SD - Ball Shape

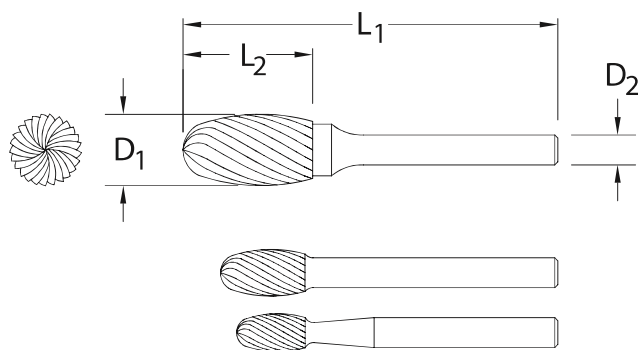
Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SD-3MNF	9,5	8	6	52	–	–	29038
SD-3ML6	9,5	8	6	158	26428	26425	–
SD-3MZ	10	9	6	49	29125	29124	–
SD-4M	11	9,5	6	54	22528	22525	–
SD-5MZ	12	10,8	6	51	29129	29128	–
SD-5M	12,7	11	6	55	22553	22550	–
SD-5MNF	12,7	11	6	55	–	–	29040
SD-5ML6	12,7	11	6	161	26453	26450	–
*SD-6M	16	14	6	58	22578	22575	–
*SD-6MNF	16	14	6	58	–	–	29042
*SD-7M	19	16	6	62	22628	22625	–
*SD-7MNF	19	16	6	62	–	–	29044
SD-7MNF	19	16	8	62	–	–	29046
*SD-9M	25	21	6	72	22678	22675	–

\* 8 mm shanks optional

## Ordering Information

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ATA Customer Service at +1 330-928-7744 or by email [sales@atatools.com](mailto:sales@atatools.com)

## UNIVERSAL SE



### Universal SE - Oval Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SE-41M	3	5,5	3	38	23153	23150	–
SE-41ML2	3	5,5	3	50	27603	27600	–
SE-41ML3	3	5,5	3	75	27628	27625	–
SE-53M	5	7,1	3	38	23203	23200	–
SE-1M	6	9,5	6	50	22953	22950	–
SE-1ML6	6	9,5	6	160	26478	26475	–
SE-51M	6,3	9,5	3	47	23178	23175	–
SE-3M	9,5	16	6	60	22978	22975	–
SE-3ML6	9,5	16	6	166	26503	26500	–
SE-3MNF	9,5	16	6	60	–	–	29048
SE-5M	12,7	22	6	66	23003	23000	–
SE-5ML6	12,7	22	6	172	26528	26525	–
SE-5MNF	12,7	22	6	66	–	–	29050
*SE-6M	16	25	6	69	23028	23025	–
*SE-6MNF	16	25	6	69	–	–	29052
*SE-7M	19	25	6	69	23078	23075	–
*SE-7MNF	19	25	6	69	–	–	29054
SE-7MNF	19	25	8	69	–	–	29056

\* 8 mm shanks optional

## Recommended Air Tools

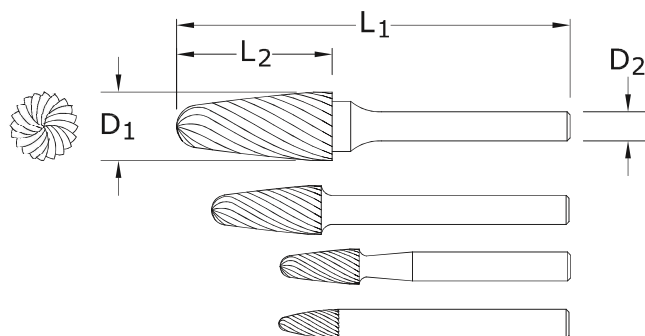
### FEATURES

From finishing to stock removal

### TOOL

Die Grinders





**Universal SF - Tree Shape**

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SF-41M	3	6	3	38	23678	23675	–
SF-42M	3	12,7	3	38	23703	23700	–
SF-11M	3	12,7	6	56	23503	23500	–
SF-42ML2	3	12,7	3	50	27653	27650	–
SF-42ML3	3	12,7	3	75	27678	27675	–
SF-53M	5	12,7	3	38	23753	23750	–
SF-1M	6	16	6	50	23303	23300	–
SF-1ML6	6	12,7	6	163	26553	26550	–
SF-1MNF	6	19	6	50	–	–	29058
SF-51M	6,3	12,7	3	56	23728	23725	–
SF-3M	9,5	19	6	63	23328	23325	–
SF-3ML6	9,5	19	6	169	26578	26575	–
SF-3MNF	9,5	19	6	63	–	–	29060
SF-4M	11	25	6	69	23353	23350	–
SF-5MZ	12	25	6	65	23522	23520	–
SF-13M	12,7	19	6	63	23528	23525	–
SF-5M	12,7	25	6	69	23378	23375	–
SF-5ML6	12,7	25	6	175	26603	26600	–
SF-5MNF	12,7	25	6	69	–	–	29062
*SF-6M	16	25	6	69	23403	23400	–
*SF-6MNF	16	25	6	69	–	–	29064
*SF-7M	19	25	6	69	23453	23450	–
*SF-14M	19	32	6	76	23578	23575	–
*SF-14MNF	19	32	6	76	–	–	29066
SF-14MNF	19	32	8	76	–	–	29068
*SF-15M	19	38	6	82	23628	23625	–

\* 8 mm shanks optional

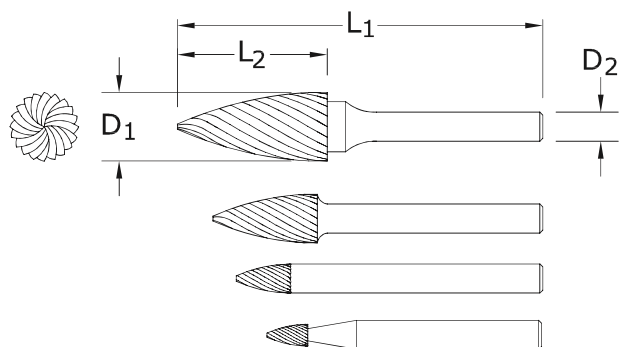


## Recommended Air Tools

**FEATURES**  
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stock removal

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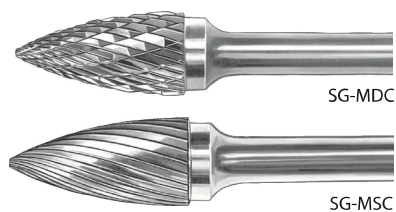




## Universal SG - Tree Shape Pointed End

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SG-41M	3	6	3	38	24153	24150	-
SG-43M	3	9,5	3	38	24203	24200	-
SG-44M	3	12,7	3	38	24228	24225	-
SG-44ML2	3	12,7	3	50	27853	27850	-
SG-44ML3	3	12,7	3	75	27878	27875	-
SG-53M	5	12,7	3	38	24278	24275	-
SG-1M	6	16	6	50	23853	23850	-
SG-1ML6	6	12,7	6	163	26628	26625	-
SG-51M	6,3	12,7	3	50	24253	24250	-
SG-2M	8	19	6	63	23878	23875	-
SG-3M	9,5	19	6	63	23903	23900	-
SG-3ML6	9,5	19	6	169	26653	26650	-
SG-3MZ	10	20	6	60	24042	24040	-
SG-5MZ	12	25	6	65	24046	24045	-
SG-13M	12,7	19	6	63	24053	24050	-
SG-5M	12,7	25	6	69	23928	23925	-
SG-5ML6	12,7	25	6	175	26678	26675	-
*SG-6M	16	25	6	69	23953	23950	-
*SG-7M	19	25	6	69	24003	24000	-
*SG-15M	19	38	6	82	24103	24100	-

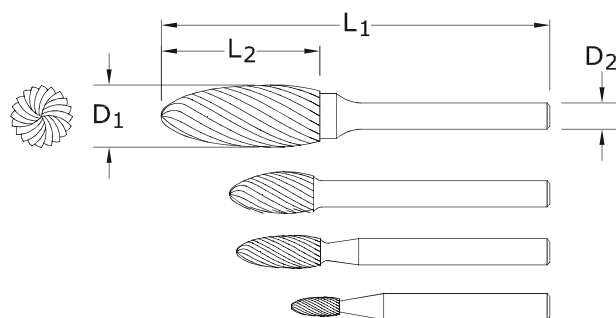
\* 8 mm shanks optional



## Recommended Air Tools

**FEATURES**  
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## Universal SH - Flame Shape

Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single cut 3 EDP No.
SH-41M	3	6,3	3	38	24553	24550
SH-41ML2	3	6,3	3	50	27903	27900
SH-41ML3	3	6,3	3	75	27928	27925
SH-53M	5	9,5	3	38	24603	24600
SH-2M	8	19	6	63	24403	24400
SH-2ML6	8	19	6	169	26703	26700
SH-5M	12,7	32	6	76	24428	24425
SH-5ML6	12,7	32	6	182	26728	26725
*SH-6M	16	36	6	80	24453	24450
*SH-7M	19	41	6	85	24503	24500

\* 8 mm shanks optional



SH-MDC



SH-MSD

## Recommended Air Tools

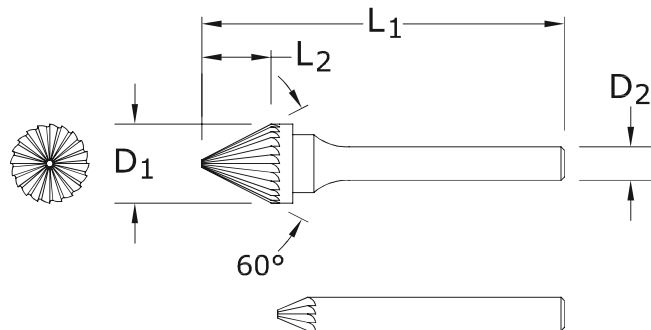
### FEATURES

From finishing to stock removal

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## Universal SJ - Cone Shape

Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SJ-42M	3	2,5	3	38	24903	24900
SJ-1M	6	4	6	50	24678	24675
SJ-3M	9,5	8	6	55	24703	24700
SJ-5M	12,7	11	6	58	24728	24725
*SJ-6M	16	14,5	6	61	24753	24750
*SJ-7M	19	17,5	6	65	24803	24800
*SJ-9M	25	24,5	6	68	24853	24850

\* 8 mm shanks optional

## Ordering Information

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## Recommended Air Tools

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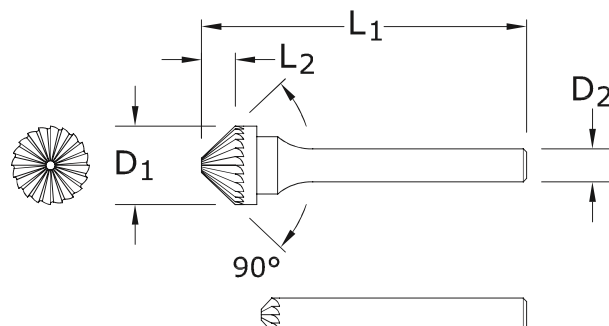
Wear Eye  
Protection!



Wear Hearing  
Protection!



Observe the recommended  
rotational speed, especially when  
using burs with long shanks!



Universal SK - Cone Shape

Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SK-42M	3	1,5	3	38	25153	25150
SK-1M	6	3	6	50	24928	24925
SK-3M	9,5	4,7	6	52	24953	24950
SK-5M	12,7	6,3	6	54	24978	24975
*SK-6M	16	8	6	57	25003	25000
*SK-7M	19	9,5	6	58	25053	25050
*SK-9M	25	12,7	6	60	25103	25100

\* 8 mm shanks optional



## Recommended Air Tools

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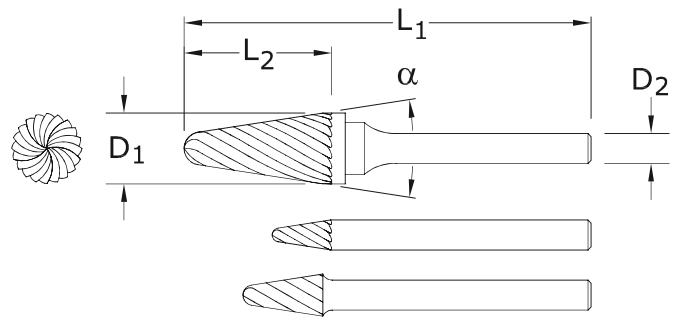
Die Grinders



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# UNIVERSAL SL



## Universal SL - Radius End Taper Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle A	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SL-41M	3	9,5	3	38	8°	25403	25400	–
SL-42M	3	12,7	3	38	8°	25428	25425	–
SL-42ML2	3	12,7	3	50	8°	27953	27950	–
SL-42ML3	3	12,7	3	75	8°	27978	27975	–
SL-53M	5	12,7	3	38	14°	25453	25450	–
SL-1M	6	16	6	50	14°	25178	25175	–
SL-1ML6	6	16	6	166	14°	26753	26750	–
SL-2M	8	22	6	69	14°	25203	25200	–
SL-3M	9,5	27	6	74	14°	25228	25225	–
SL-3MNF	9,5	27	6	74	14°	–	–	29070
SL-3ML6	9,5	27	6	177	14°	26778	26775	–
SL-4M	12,7	28	6	76	14°	25253	25250	–

\* 8 mm shanks optional



## Recommended Air Tools

### FEATURES

From finishing to stock removal

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Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



### Universal SL - Taper Shape

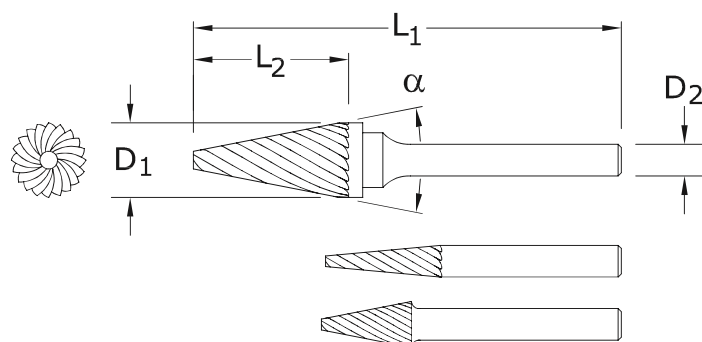
Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle A	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SL-4MNF	12,7	28	6	76	14°	–	–	29072
SL-4ML6	12,7	28	6	178	14°	26803	26800	–
*SL-5M	16	30	6	77	14°	25278	25275	–
*SL-5MNF	16	30	6	77	14°	–	–	29074
*SL-7M	19	38	6	85	14°	25353	25350	–
*SL-7MNF	19	38	6	85	14°	–	–	29078
SL-7MNF	19	38	8	85	14°	–	–	29080

\* 8 mm shanks optional

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## Universal SM - Cone Shape

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle A	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SM-41M	3	8,9	3	38	12°	25678	25675
SM-42M	3	11	3	38	14°	25703	25700
SM-42ML2	3	11	3	50	14°	28053	28050
SM-42ML3	3	11	3	75	14°	28078	28075
SM-43M	3	16	3	38	7°	25728	25725
SM-53M	5	12,7	3	38	16°	25778	25775
SM-1M	6	12,7	6	50	22°	25503	25500
SM-2M	6	19	6	50	14°	25528	25525
SM-3M	6	25	6	50	10°	25553	25550
SM-51M	6,3	12,7	3	53	22°	25753	25750
SM-4M	9,5	16	6	63	28°	25578	25575
SM-5M	12,7	22	6	69	28°	25603	25600
*SM-6M	16	25	6	73	31°	25628	25625

\* 8 mm shanks optional



## Recommended Air Tools

**FEATURES**  
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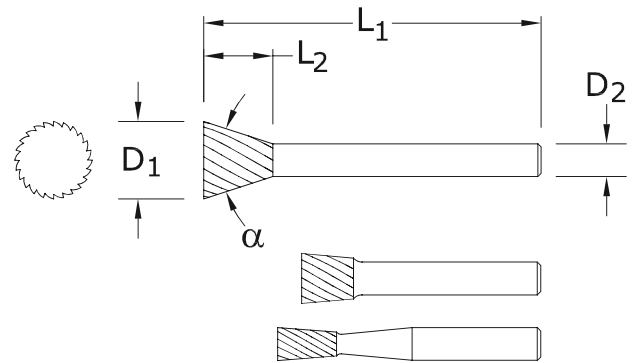
Wear Eye  
Protection!



Wear Hearing  
Protection!



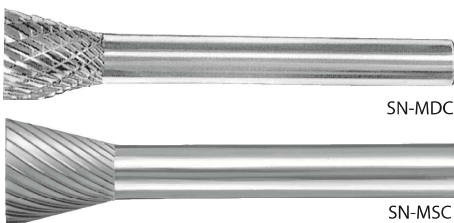
Observe the recommended  
rotational speed, especially when  
using burs with long shanks!



Universal SN - Cone Shape Inverted

Tool	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle A	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SN-41M	2,5	3	3	38	10°	26028	26025
SN-42M	3	4	3	38	10°	26053	26050
SN-53M	5	6,3	3	38	10°	26103	26100
SN-1M	6	8	6	50	10°	25853	25850
SN-51M	6,3	6	3	44	10°	26078	26075
SN-2M	9,5	9,5	6	53	13°	25878	25875
SN-4M	12,7	12,7	6	57	28°	25903	25900
*SN-6M	16	19	6	63	18°	25928	25925
*SN-7M	19	16	6	60	30°	25978	25975

\* 8 mm shanks optional



## Recommended Air Tools

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## UNIVERSAL Long Shank

Universal Long Shank						
Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.
Cylinder Shape						
SA-1ML6	6	12,7	6	162	26178	26175
SA-3ML6	9,5	19	6	169	26203	26200
SA-5ML6	12,7	25	6	175	26228	26225
Cylinder Shape Radius End						
SC-1ML6	6	12,7	6	162	26328	26325
SC-3ML6	9,5	19	6	169	26353	26350
SC-5ML6	12,7	25	6	175	26378	26375
Ball Shape						
SD-1ML6	6	5	6	155	26403	26400
SD-3ML6	9,5	8	6	158	26428	26425
SD-5ML6	12,7	11	6	161	26453	26450
Oval Shape						
SE-1ML6	6	9,5	6	160	26478	26475
SE-3ML6	9,5	16	6	166	26503	26500
SE-5ML6	12,7	22	6	172	26528	26525
Tree Shape Radius End						
SF-1ML6	6	12,7	6	163	26553	26550
SF-3ML6	9,5	19	6	169	26578	26575
SF-5ML6	12,7	25	6	175	26603	26600
Tree Shape Pointed End						
SG-1ML6	6	12,7	6	163	26628	26625
SG-3ML6	9,5	19	6	169	26653	26650
SG-5ML6	12,7	25	6	175	26678	26675
Flame Shape						
SH-2ML6	8	19	6	169	26703	26700
SH-5ML6	12,7	32	6	182	26728	26725
14° Taper Radius End						
SL-1ML6	6	16	6	166	26753	26750
SL-3ML6	9,5	27	6	177	26778	26775
SL-4ML6	12,7	28	6	178	26803	26800





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