

**sgspro**  
part of the  group



New Product Brochure

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

 **group**



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## INTRODUCTION

As one of the world's most technologically advanced bur manufacturing companies, ATA offers bur configurations for every imaginable ferrous or nonferrous application for efficient stock removal and excellent surface finish. With a state-of-the-art, climate controlled manufacturing facility, sgspro burs are the most widely used burs in the world serving a variety of industries, materials and applications.

### Industry optimized solutions for better results

We answer your most difficult challenges in demanding environments.

For over 50 years, we have supplied industries with high quality tungsten carbide burs. Using this experience, we have developed a wealth of products designed to meet your application requirements and to exceed your expectations.

### TRANSPORT: AUTOMATIVE, AEROSPACE, RAILWAY, MARINE.

**Mold & Die** industry requires deburring tools that can handle the complexity of work piece configurations and deliver accuracy required for tight tolerance applications. sgspro burs are precisely ground on multiaxis CNC grinding machines offering unparalleled performance meeting the demands of challenging materials, including carbon steels, hardened steels, tool steels, stainless steels, and aluminium. Ideal for applications such as chamfering, creating a radius, weld removal and blending, bevelling and repair.

**Automotive** machining means high production and cost control without sacrificing quality. The durability of SGS burs can be seen within automotive manufacturing or aftermarket service repair. Ideal for applications such as Flash Removal, Chamfering, Weld Removal and Blending, Bevelling, Aftermarket Repair.

### METAL FABRICATION: MOLD & DIE, FOUNDRIES, MEDICAL DEVICES.

**Castings & Foundry** work requires safe, effective, and consistent performance when it comes to approaching high-strength and heat-resistant materials. ATA is an ISO Certified Company, utilizing rigorous quality control measures throughout the manufacturing process. Our quality burs are ideal for cast materials, including iron, steel, copper-based alloys, aluminium based alloys, exotic alloys, titanium alloys. Ideal for applications such as Parting Line Removal, Fin Removal, Finishing of Casting Risers and Flash Removal.

### ENERGY: POWER GENERATION, OIL & GAS, WIND TURBINE

**Power Generation** requires tooling specifically developed for efficient and economical removal of difficult to machine materials. SGS burs maintain superior tool life and control achieved through engineered geometry and consistent braze. Bur construction is torque measured to ensure braze strength and durability. Ideal for applications such as Turbine Manufacturing and Repair.





## 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 focus on alignment control and ensure a free of contamination assembly.

## 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. Inspection tasks carried out at every step of the manufacturing process.

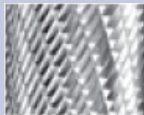
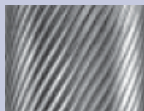
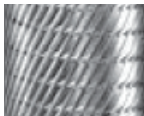
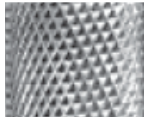
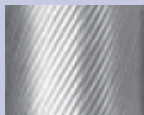
## Service

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> -<br>deburring, finishing,<br>cleaning.       | Ferrous metals<br>Non-ferrous metals                                                                                                                                                                                | Double Cut - CUT 6 (DC6)        |    |
| <b>Heavy stock removal</b> -<br>deburring, milling, cleaning,<br>machining   | Non-ferrous metal: aluminum alloys<br>Plastics                                                                                                                                                                      | Non Ferrous - CUT 1 (NF1)       |    |
| <b>Heavy stock removal</b> -<br>deburring, milling.                          | Non hardened steel <45HRc<br>Hardened steel >45HRc: stainless steel<br>High temperature resistant metals: nickel, cobalt, titanium.<br>Non-ferrous light metals: brass, copper, zinc.<br>Hardened >45HRc: cast iron | Omega Cut - (DDC)               |    |
| <b>Medium stock removal</b> -<br>deburring, milling, cleaning,<br>finishing. | Non-ferrous light metals: brass, copper, zinc<br>Plastics<br>Hard Rubber                                                                                                                                            | Coarse Cut - CUT 2 (CC2)        |   |
| <b>Medium stock removal</b> -<br>deburring, milling, cleaning,<br>finishing. | Non hardened steel <45HRc<br>Hardened steel >45HRc: stainless steel<br>High temperature resistant metals: nickel, cobalt, titanium.<br>Non-ferrous light metals: brass, copper, zinc.<br>Hardened >45HRc: cast iron | Single Cut - CUT 3 (SC3)        |  |
| <b>Medium stock removal</b> -<br>deburring, milling, cleaning,<br>finishing. | Non hardened steel <45HRc<br>Hardened steel >45HRc<br>High temperature resistant metals: nickel, cobalt.<br>Non-ferrous light metals: brass, copper, zinc.<br>Steel - Hardened >45HRc: cast iron                    | Chip Breaker - CUT 3 SP (CB3SP) |  |
| <b>Medium stock removal</b> -<br>deburring, milling, cleaning,<br>finishing. | Composite, Carbon<br>Fiberglass                                                                                                                                                                                     | FGR - (FGR)                     |  |
| <b>Light stock removal</b> - fine<br>deburring, fine finishing               | Ferrous metals<br>Fiberglass                                                                                                                                                                                        | Diamond Cut - CUT 4 (DC4)       |  |
| <b>Light stock removal</b> - fine<br>deburring, fine finishing               | Hardened steel >45HRc                                                                                                                                                                                               | Fine Cut - CUT 5 (FC5)          |  |



**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                |                 | Cut 3/3SP/5/6 |  |                 |  |                 |  |
| Non hardened steel <45HRc            |                 |               |  | CUT 3 - 3SP - 6 |  |                 |  |
| High temperature resistant materials | 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       |  |
| Fiberglass                           |                 |               |  |                 |  | 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.



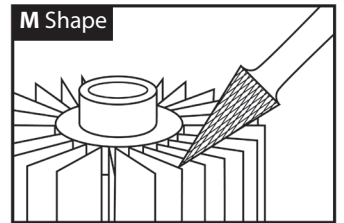
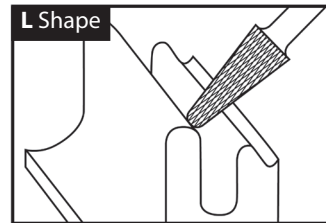
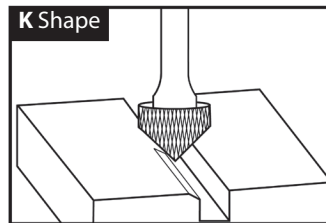
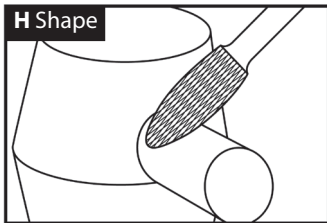
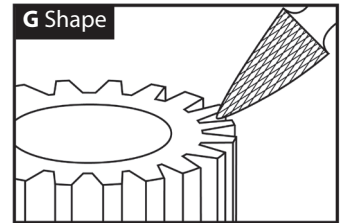
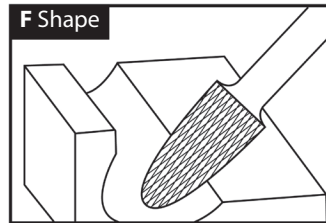
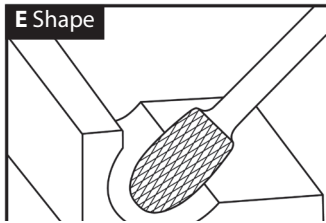
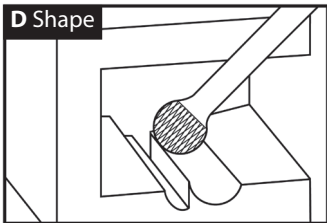
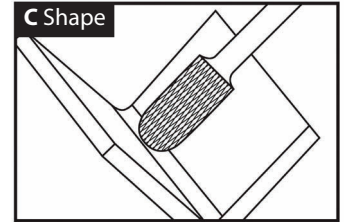
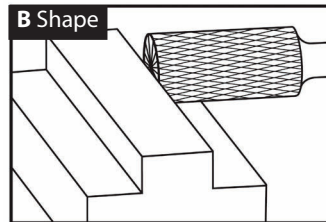
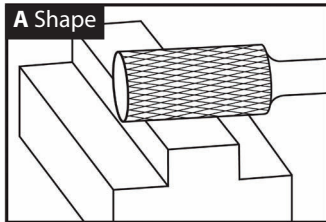
**sgspro** tungsten carbide burs are manufactured in compliance with the highest standards. Our comprehensive product portfolio offers a broad range of reliable and market-proven solutions for every application. Our know-how and expertise allow us to continuously improve our offering to provide outstanding 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 on +3330-928-77-44 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.





- State-of-the-art technologies
- Designed by ATA Burs Expert Team
- Bringing added value to your process

# INNOVATION RANGE



## Features & Benefits - RADIUS LINE

### FEATURES

Unique Guide System  
Multi-application  
Unique curve

### BENEFITS

Easy Control  
Reduce downtime  
Creates smooth radius

### Radius Burs

| Line        | Description    | Cutting Diameter D1 | Overall Length L2 | Shank Diameter D2 | Length of Cut L1 | Double Cut (DC 6) EDP No. |
|-------------|----------------|---------------------|-------------------|-------------------|------------------|---------------------------|
| Radius Burs | SA-5RA D/C BUR | 1/2"                | 2"3/4             | 1/4"              | 1"               | 11755                     |
| Radius Burs | SB-5RA D/C BUR | 1/2"                | 2"3/4             | 1/4"              | 1"               | 11756                     |
| Radius Burs | SC-5RA C BUR   | 1/2"                | 2"3/4             | 1/4"              | 1"               | 11757                     |
| Radius Burs | SC-5RA C BUR   | 1/2"                | 2"3/4             | 1/4"              | 1"               | 11758                     |
| Radius Burs | SC-5RA D/C BUR | 1/2"                | 2"3/4             | 1/4"              | 1"               | 11759                     |
| Radius Burs | SF-5RA D/C BUR | 1/2"                | 3"1/4             | 1/4"              | 1-1/4"           | 11760                     |
| Radius Burs | SG-5RA D/C BUR | 1/2"                | 3"1/4             | 1/4"              | 1-1/4"           | 11761                     |
| Radius Burs | SJ-5RA D/C BUR | 1/2"                | 3"                | 1/4"              | 1-1/4"           | 11762                     |
| Radius Burs | SK-5RA D/C BUR | 1/2"                | 3"                | 1/4"              | 1-1/8"           | 11763                     |
| Radius Burs | SL-5RA D/C BUR | 1/2"                | 3"1/4             | 1/4"              | 1-1/4"           | 11764                     |



## Recommended Air Tools

### FEATURES

Heavy Duty & Access

### TOOL

SM / SMD / SMX / SX



Wear Eye Protection!



Wear Hearing Protection!



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

## Features & Benefits - COMBI LINE

### FEATURES

Special tooth geometry  
All-in-One Shapes  
High carbide quality

### BENEFITS

Better performance  
Suit complex application  
Consistent performance

#### Combi Burs

| Line       | Description     | Cutting Diameter D1 | Overall Length L2 | Shank Diameter D2 | Length of Cut L1 | Double Cut (DC 6) EDP No. |
|------------|-----------------|---------------------|-------------------|-------------------|------------------|---------------------------|
| Combi Burs | SA-5CO D/C BUR  | 1/2"                | 2"3/4             | 1/4"              | 1"               | 15855                     |
| Combi Burs | SB-5CO D/C BUR  | 1/2"                | 2"3/4             | 1/4"              | 1"               | 15856                     |
| Combi Burs | SD-5CO C BUR    | 1/2"                | 2"1/2             | 1/4"              | 3/4"             | 15857                     |
| Combi Burs | SD-5CO D/C BUR  | 1/2"                | 2"1/2             | 1/4"              | 3/4"             | 15858                     |
| Combi Burs | SF-5CO D/C BUR  | 1/2"                | 3"                | 1/4"              | 1-1/4"           | 15859                     |
| Combi Burs | SG-5CO D/C BUR  | 1/2"                | 3"                | 1/4"              | 1-1/4"           | 15860                     |
| Combi Burs | SJA-5CO D/C BUR | 1/2"                | 2"3/4             | 1/4"              | 1"               | 15861                     |
| Combi Burs | SJN-5CO D/C BUR | 1/2"                | 2"3/4             | 1/4"              | 7/8"             | 15862                     |
| Combi Burs | SKA-5CO D/C BUR | 1/2"                | 2"3/4             | 1/4"              | 1"               | 15863                     |
| Combi Burs | SNA-5CO D/C BUR | 1/2"                | 2"1/2             | 1/4"              | 3/4"             | 15864                     |
| Combi Burs | SK-6CO C BUR    | 5/8"                | 2"3/8             | 1/4"              | 5/8"             | 15865                     |
| Combi Burs | SL-5CO D/C BUR  | 1/2"                | 3"                | 1/4"              | 1-1/4"           | 15866                     |
| Combi Burs | SM-5CO D/C BUR  | 1/2"                | 3"1/4             | 1/4"              | 1-1/4"           | 15867                     |
| Combi Burs | SN-5CO D/C BUR  | 1/2"                | 2"3/4             | 1/4"              | 1"               | 15868                     |



## Recommended Air Tools

### FEATURES

Versatile application

### TOOL

SM / SMD / SMX / SX



## Ordering Information

For more information and / or to place an order, please contact  
ATA Customer Service on +3330-928-77-44 or by email [sales@atatools.com](mailto:sales@atatools.com).

## Features & Benefits - CORNER RADIUS

### FEATURES

Top radius  
Corner Radius  
Stronger design

### BENEFITS

Flute strength  
Prevents from digging  
CReduce flute chipping

### Corner Radius

| Line          | Description     | Cutting Diameter D1 | Overall Length L2 | Shank Diameter D2 | Length of Cut L1 | Double Cut (DC 6) EDP No. |
|---------------|-----------------|---------------------|-------------------|-------------------|------------------|---------------------------|
| Corner Radius | SA-43CR D/C BUR | 1/8"                | 1"1/4             | 1/8"              | 9/16"            | 10155                     |
| Corner Radius | SA-1CR D/C BUR  | 1/4"                | 2"                | 1/4"              | 3/4"             | 10156                     |
| Corner Radius | SA-2CR D/C BUR  | 5/16"               | 2"1/2             | 1/4"              | 3/4"             | 10157                     |
| Corner Radius | SA-3CR D/C BUR  | 3/8"                | 2"1/2             | 1/4"              | 3/4"             | 10158                     |
| Corner Radius | SA-5CR D/C BUR  | 1/2"                | 2"3/4             | 1/4"              | 1"               | 10159                     |
| Corner Radius | SA-6CR D/C BUR  | 5/8"                | 2"3/4             | 1/4"              | 1"               | 10160                     |



## Recommended Air Tools

### FEATURES

Control on flate cleaning

### TOOL

SP / SD / SM

## Ordering Information

For more information and / or to place an order, please contact  
ATA Customer Service on +3330-928-77-44 or by email [sales@atatools.com](mailto:sales@atatools.com).







## Features & Benefits - FLEX BURS

### FEATURES

Guide system  
Flexible shafts

### BENEFITS

Easy Access  
Blending application

The FLEXBUR is designed to effectively remove material in difficult to reach component features that simply cannot be addressed by a solid shank bur. The FLEXBUR is ideal for managing complex deburring operations found in many challenging castings such as impellers, pump casings, turbine blade assemblies and engine blocks. Excellent for the cleaning of burnt sand, welds, fins, and various blending operations. Due to the wide variety of unique solutions the FLEXBUR can provide, each tool is customized to your application demands in 3 easy steps:

- 1) Define the tool using the form below and please fax back to ATA Tools Inc. Fax number, email email address or call us on phone number.
- 2) SGS provides a complete quotation for your product within 1 business day

The FLEXBUR is manufactured on state of the art CNC equipment in the most technologically advanced bur manufacturing facility in the world.

#### REACH AROUND BENDS WITH A FLEXIBLE SHANK

- Available in a variety of fractional and metric shank diameters
- Shanks up to 6" in length
- Available with a variety of cut styles and flute configurations in the most popular bur shapes up to 1/2" or 12.7mm in diameter
- Able to accommodate a wide range of angles and can be used in conjunction with a rigid sleeve during operation
- Tools may be sent back for reconditioning

### APPLICATION INFORMATION (REQUIRED INFORMATION)

#### STEP 1: TOOL USE

- ☐ Hand Device  
☐ Machine

#### STEP 2: MATERIAL

Material Type

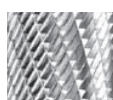
Hardness

#### STEP 3: OPERATING SPEED

Maximum RPM (Revolutions Per Minute)

### FLEXIBLE SHANK BUR DESIGN

#### STEP 4: FLUTING AND CUT STYLE OPTIONS

☐


Standard with Double Cut

☐


Coarse with Deep Double Cut

#### STEP 5: BUR SHAPE (RHS/RHC ONLY)

☐


SA/SB

☐


SF

☐


SE

☐


SD

☐


SC

☐


SL

#### STEP 6: SHANK SIZE

##### FRACTIONAL SHANK OPTIONS

☐ 1/4"

☐ 5/16"

☐ 3/8"

##### METRIC SHANK OPTIONS

☐ 6mm

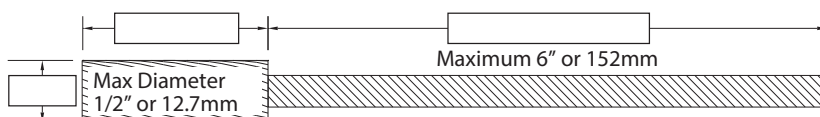
☐ 8mm

☐ 10mm

ACTUAL SHANK SIZE AND TOLERANCE WILL BE CONFIRMED WHEN QUOTED

#### STEP 7: DEFINE BUR DIMENSIONS

☐ Inch Dimensions

☐ Metric Dimensions


ALL STEPS MUST BE COMPLETED ON FORM TO PROVIDE A QUOTE. TOOLS WILL BE MANUFACTURED TO SGS STANDARD BUR TOLERANCES.

**SAFETY** The use of eye, face, and ear protection is strongly recommended. Burs with shanks longer than 1-3/4" should be used at 50% of the normal speed. Flexible shank burs are only recommended for use in well maintained equipment and used with extra caution. Stabilize flexible shank burs prior to starting the grinder. When bur performance reaches an unacceptable level discontinue use. Excessive use of bur may result in failure that could cause injury. Any false or misrepresented information provided on this form releases the manufacturer from liability for any damage or injury that may result from the product provided.

## Features & Benefits - NEW SETS

### FEATURES

Compact  
Key items  
Nice pack

### BENEFITS

Easy to carry  
Best for texts / demo  
Best for promotion

### Innovation Sets

| Line | Description | Type                  | Contents                                                                 | Double Cut (DC 6)<br>EDP No. |
|------|-------------|-----------------------|--------------------------------------------------------------------------|------------------------------|
| Sets | BUR5RA      | 5pcs Chamfer          | SB-5RA/SC-5RA/SF-5RA/SK-5RA/SK-6CO                                       | 18220                        |
| Sets | BUR10RA     | 10pcs Radius          | SA-5RA/SB-5RA/SC-5RA/SF-5RA/SG-5RA/SJ-5RA/SK-5RA/SL-5RA                  | 18225                        |
| Sets | BUR5CO      | 5pcs Combi            | SD-5CO/SJA-5CO/SNA-5CO/SK-6CO/SN-5CO                                     | 18230                        |
| Sets | BUR10CO     | 10pcs Combi           | SB-5CO/SD-5CO/SF-5CO/SG-5CO/SJN-5CO/SKA-5CO/SNA-5CO/SL-5CO/SM-5CO/SN-5CO | 18235                        |
| Sets | BUR6CR      | 6pcs Corner<br>Radius | SA-43CR/SA-1CR/SA-2CR/SA-3CR/SA-5CR/SA-6CR                               | 18240                        |
| Sets | DEMOBUR5    | 5pcs Demo             | SC-5RA/SD-5CO/SA-1CR/SA-3CR/SA-5CR                                       | 18250                        |



## Ordering Information

For more information and / or to place an order, please contact  
ATA Customer Service on +3330-928-77-44 or by email [sales@atatools.com](mailto:sales@atatools.com).





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- Maximise your productivity

# PERFORMANCE RANGE



## PERFORMANCE Omega



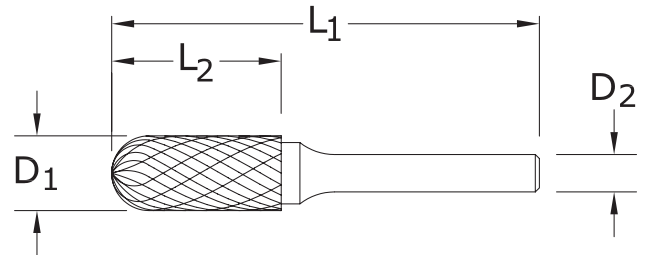
### Features & Benefits - OMEGA - DDC

#### FEATURES

Deep Double Cut  
Negative rake angle  
High performance geometry

#### BENEFITS

Aggressive stock removal  
Stronger teeth for HD Application  
Longer life, avoid breakage  
in HD work



#### Omega

| Line  | Description  | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Ti-Namite A (AITIN) EDP No. |
|-------|--------------|---------------------|-------------------|-------------------|------------------|---------------------------|-----------------------------|
| Omega | SA-3 DDC     | 3/8                 | 2 1/2             | 1/4               | 3/4              | 10269                     | 10304                       |
| Omega | SA-3L6 DDC   | 3/8                 | 6 3/4             | 1/4               | 3/4              | 10329                     | 10354                       |
| Omega | SA-5 3/8 DDC | 1/2                 | 3                 | 3/8               | 1                | 10271                     | 10306                       |
| Omega | SA-5 DDC     | 1/2                 | 2 3/4             | 1/4               | 1                | 10270                     | 10305                       |
| Omega | SA-5L6 DDC   | 1/2                 | 7                 | 1/4               | 1                | 10337                     | 10355                       |
| Omega | SB-3 DDC     | 3/8                 | 2 1/2             | 1/4               | 3/4              | 10272                     | 10307                       |
| Omega | SB-5 3/8 DDC | 1/2                 | 3                 | 3/8               | 1                | 10274                     | 10309                       |
| Omega | SB-5 DDC     | 1/2                 | 2 3/4             | 1/4               | 1                | 10273                     | 10308                       |
| Omega | SC-3 DDC     | 3/8                 | 2 1/2             | 1/4               | 3/4              | 10275                     | 10310                       |
| Omega | SC-3L6 DDC   | 3/8                 | 6 3/4             | 1/4               | 3/4              | 10338                     | 10356                       |
| Omega | SC-5 3/8 DDC | 1/2                 | 2 3/4             | 3/8               | 1                | 10277                     | 10312                       |
| Omega | SC-5 DDC     | 1/2                 | 2 3/4             | 1/4               | 1                | 10276                     | 10311                       |
| Omega | SC-5L6 DDC   | 1/2                 | 7                 | 1/4               | 1                | 10339                     | 10357                       |
| Omega | SC-6 3/8 DDC | 5/8                 | 3                 | 3/8               | 1                | 10278                     | 10313                       |
| Omega | SD-3 DDC     | 3/8                 | 2 3/50            | 1/4               | 15/47            | 10279                     | 10314                       |
| Omega | SD-3L6 DDC   | 3/8                 | 6 5/16            | 1/4               | 15/47            | 10340                     | 10358                       |
| Omega | SD-5 3/8 DDC | 1/2                 | 2 9/20            | 3/8               | 17/40            | 10281                     | 10316                       |
| Omega | SD-5 DDC     | 1/2                 | 2 1/5             | 1/4               | 17/40            | 10280                     | 10315                       |
| Omega | SD-5L6 DDC   | 1/2                 | 6 9/20            | 1/4               | 17/40            | 10341                     | 10359                       |



### Recommended Air Tools

#### FEATURES

Heavy Duty & Access

#### TOOL

Best with SMD SX



Wear Eye Protection!



Wear Hearing Protection!



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



## Omega

| Line  | Description  | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Ti-Namite A (AITIN) EDP No. |
|-------|--------------|---------------------|-------------------|-------------------|------------------|---------------------------|-----------------------------|
| Omega | SE-3 DDC     | 3/8                 | 2 19/50           | 1/4               | 5/8              | 10282                     | 10317                       |
| Omega | SE-3L6 DDC   | 3/8                 | 6 5/8             | 1/4               | 5/8              | 10342                     | 10360                       |
| Omega | SE-5 3/8 DDC | 1/2                 | 2 7/8             | 3/8               | 7/8              | 10284                     | 10319                       |
| Omega | SE-5 DDC     | 1/2                 | 2 31/50           | 1/4               | 7/8              | 10283                     | 10318                       |
| Omega | SE-5L6 DDC   | 1/2                 | 6 7/8             | 1/4               | 7/8              | 10343                     | 10361                       |
| Omega | SF-3 DDC     | 3/8                 | 2 1/2             | 1/4               | 3/4              | 10285                     | 10320                       |
| Omega | SF-3L6 DDC   | 3/8                 | 6 3/4             | 1/4               | 3/4              | 10344                     | 10362                       |
| Omega | SF-5 3/8 DDC | 1/2                 | 3                 | 3/8               | 1                | 10287                     | 10322                       |
| Omega | SF-5 DDC     | 1/2                 | 2 3/4             | 1/4               | 1                | 10286                     | 10321                       |
| Omega | SF-5L6 DDC   | 1/2                 | 7                 | 1/4               | 1                | 10345                     | 10363                       |
| Omega | SF-6 3/8 DDC | 5/8                 | 3                 | 3/8               | 1                | 10288                     | 10323                       |
| Omega | SG-3 DDC     | 3/8                 | 2 1/2             | 1/4               | 3/4              | 10289                     | 10324                       |
| Omega | SG-3L6 DDC   | 3/8                 | 6 3/4             | 1/4               | 3/4              | 10346                     | 10364                       |
| Omega | SG-5 3/8 DDC | 1/2                 | 3                 | 3/8               | 1                | 10291                     | 10326                       |
| Omega | SG-5 DDC     | 1/2                 | 2 3/4             | 1/4               | 1                | 10290                     | 10325                       |
| Omega | SG-5L6 DDC   | 1/2                 | 7                 | 1/4               | 1                | 10347                     | 10365                       |
| Omega | SG-6 3/8 DDC | 5/8                 | 3                 | 3/8               | 1                | 10292                     | 10327                       |
| Omega | SH-5 3/8 DDC | 1/2                 | 3 1/4             | 3/8               | 1 1/4            | 10294                     | 10331                       |
| Omega | SH-5 DDC     | 1/2                 | 3                 | 1/4               | 1 1/4            | 10293                     | 10330                       |
| Omega | SH-5L6 DDC   | 1/2                 | 7 1/4             | 1/4               | 1 1/4            | 10348                     | 10366                       |
| Omega | SL-3 DDC     | 3/8                 | 2 47/50           | 1/4               | 1 1/16           | 10295                     | 10332                       |
| Omega | SL-3L6 DDC   | 3/8                 | 7 1/16            | 1/4               | 1 1/16           | 10349                     | 10367                       |
| Omega | SL-4 3/8 DDC | 1/2                 | 3 13/48           | 3/8               | 1 1/8            | 10297                     | 10334                       |
| Omega | SL-4 DDC     | 1/2                 | 3                 | 1/4               | 1 1/8            | 10296                     | 10333                       |
| Omega | SL-4L6 DDC   | 1/2                 | 7 1/8             | 1/4               | 1 1/8            | 10351                     | 10368                       |
| Omega | SM-5 3/8 DDC | 1/2                 | 3                 | 3/8               | 7/8              | 10299                     | 10336                       |
| Omega | SM-5 DDC     | 1/2                 | 2 3/4             | 1/4               | 7/8              | 10298                     | 10335                       |

## PERFORMANCE G200

### Features & Benefits - G2000

#### FEATURES

Design for aerospace

Good finish & high stock removal

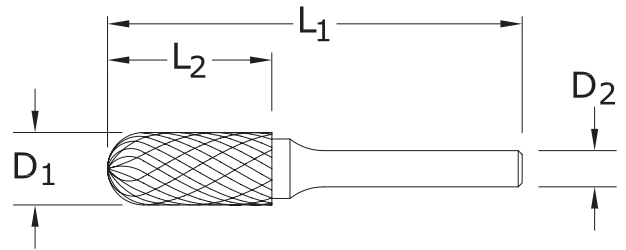
Specific rake angle

#### BENEFITS

Outperform standard cuts in complex alloys

Respond to complex application

Suitable for very hard material and increase life while keeping sharpness



#### G2000

| Line  | Description    | Cutting Diameter D1 | Overall Length L2 | Shank Diameter D2 | Length of Cut L1 | Double Cut (DC 6) EDP No. | Ti-Namite A (AITIN) EDP No. |
|-------|----------------|---------------------|-------------------|-------------------|------------------|---------------------------|-----------------------------|
| G2000 | SA-3G D/C      | 3/8                 | 2 1/2             | 1/4               | 3/4              | 19203                     | 19243                       |
| G2000 | SA-43G D/C     | 1/8                 | 1/8               | 1 1/2             | 9/16             | 19200                     | 19240                       |
| G2000 | SA-51G D/C     | 1/4                 | 1/8               | 2                 | 1/2              | 19201                     | 19241                       |
| G2000 | SA-51G D/C E/C | 1/4                 | 1/8               | 2                 | 1/2              | 19202                     | 19242                       |
| G2000 | SA-5G D/C      | 1/2                 | 1/4               | 2 3/4             | 1                | 19204                     | 19244                       |
| G2000 | SB-43G D/C     | 1/8                 | 1/8               | 1 1/2             | 9/16             | 19205                     |                             |
| G2000 | SC-3G D/C      | 3/8                 | 2 1/2             | 1/4               | 3/4              | 19211                     | 19251                       |
| G2000 | SC-41G D/C     | 3/32                | 1/8               | 1 1/2             | 7/16             | 19206                     | 19246                       |
| G2000 | SC-42G D/C     | 1/8                 | 1/8               | 1 1/2             | 9/16             | 19207                     | 19247                       |
| G2000 | SC-42GL2 D/C   | 1/8                 | 1/8               | 2                 | 9/16             | 19208                     | 19248                       |
| G2000 | SC-42GL3 D/C   | 1/8                 | 1/8               | 3                 | 9/16             | 19209                     | 19249                       |
| G2000 | SC-51G D/C     | 1/4                 | 1/8               | 2                 | 1/2              | 19210                     | 19250                       |
| G2000 | SC-5G D/C      | 1/2                 | 1/4               | 2 3/4             | 1                | 19212                     | 19252                       |
| G2000 | SD-3G D/C      | 3/8                 | 1/4               | 2 1/16            | 5/16             | 19215                     | 19255                       |
| G2000 | SD-42G D/C     | 1/8                 | 1/8               | 1 1/2             | 3/32             | 19213                     | 19253                       |
| G2000 | SD-51G D/C     | 1/4                 | 1/8               | 1 3/4             | 7/32             | 19214                     | 19254                       |
| G2000 | SD-5G D/C      | 1/2                 | 1/4               | 2 3/16            | 7/16             | 19216                     | 19256                       |
| G2000 | SE-3G D/C      | 3/8                 | 1/4               | 2 3/8             | 5/8              | 19219                     | 19259                       |



### Recommended Air Tools

#### FEATURES

Deburring to finishing

#### TOOL

SP Line - design for SP45R



Wear Eye Protection!



Wear Hearing Protection!



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





## G200

| Line  | Description  | Cutting Diameter D1 | Overall Length L2 | Shank Diameter D2 | Length of Cut L1 | Double Cut (DC 6) EDP No. | Ti-Namite A (AITIN) EDP No. |
|-------|--------------|---------------------|-------------------|-------------------|------------------|---------------------------|-----------------------------|
| G2000 | SE-41G D/C   | 1/8                 | 1/8               | 1 1/2             | 7/32             | 19217                     | 19257                       |
| G2000 | SE-51G D/C   | 1/4                 | 1/8               | 1 7/8             | 3/8              | 19218                     | 19258                       |
| G2000 | SE-5G D/C    | 1/2                 | 1/4               | 2 5/8             | 7/8              | 19220                     | 19260                       |
| G2000 | SF-3G D/C    | 3/8                 | 1/4               | 2 1/2             | 3/4              | 19224                     | 19264                       |
| G2000 | SF-42G D/C   | 1/8                 | 1/8               | 1 1/2             | 1/2              | 19221                     | 19261                       |
| G2000 | SF-42GL2 D/C | 1/8                 | 1/8               | 2                 | 1/2              | 19222                     | 19262                       |
| G2000 | SF-51G D/C   | 1/4                 | 1/8               | 2                 | 1/2              | 19223                     | 19263                       |
| G2000 | SF-5G D/C    | 1/2                 | 1/4               | 2 3/4             | 1                | 19225                     | 19265                       |
| G2000 | SG-3G D/C    | 3/8                 | 1/4               | 2 1/2             | 3/4              | 19229                     | 19269                       |
| G2000 | SG-42G D/C   | 1/8                 | 1/8               | 1 1/2             | 5/16             | 19226                     | 19266                       |
| G2000 | SG-44G D/C   | 1/8                 | 1/8               | 1 1/2             | 1/2              | 19227                     | 19267                       |
| G2000 | SG-51G D/C   | 1/4                 | 1/8               | 2                 | 1/2              | 19228                     | 19268                       |
| G2000 | SG-5G D/C    | 1/2                 | 1/4               | 2 3/4             | 1                | 19230                     | 19270                       |
| G2000 | SH-41G D/C   | 1/8                 | 1/8               | 1 1/2             | 1/4              | 19231                     | 19271                       |
| G2000 | SH-5G D/C    | 1/2                 | 1/4               | 3                 | 1 1/4            | 19232                     | 19272                       |
| G2000 | SL-4G D/C    | 1/2                 | 1/4               | 3                 | 1 1/8            | 19233                     | 19273                       |
| G2000 | SM-42G D/C   | 1/8                 | 1/8               | 1 1/2             | 7/16             | 19234                     | 19274                       |
| G2000 | SM-43G D/C   | 1/8                 | 1/8               | 1 1/2             | 5/8              | 19235                     | 19275                       |
| G2000 | SM-51G D/C   | 1/4                 | 1/8               | 2 1/8             | 1/2              | 19236                     | 19276                       |
| G2000 | SM-5G D/C    | 1/2                 | 1/4               | 2 3/4             | 7/8              | 19237                     | 19277                       |



## PERFORMANCE Mold & Die 4

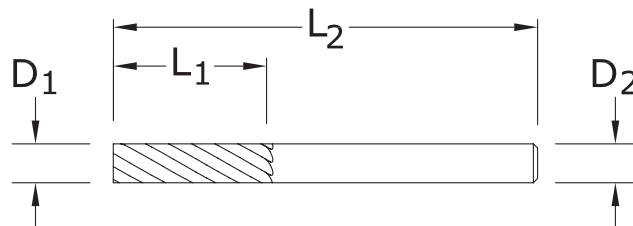
### Features & Benefits - MOLD & DIE

#### FEATURES

Special range  
Good finish and high stock removal  
Specific rake angle

#### BENEFITS

Best solution for mold specialists  
Responst to complex application  
  
Suitable for very hard material and increase life while keeping sharpness



#### Mold & Die 4

| Line       | Description | Cutting Diameter D1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. |
|------------|-------------|---------------------|-------------------|------------------|---------------------------|
| Mold & Die | SA-41       | 1/16                | 1 1/2             | 1/4              | 10600                     |
| Mold & Die | SA-41       | 1/16                | 1 1/2             | 1/4              | 10603                     |
| Mold & Die | SA-41L2     | 1/16                | 2                 | 1/4              | 17100                     |
| Mold & Die | SA-41L2     | 1/16                | 2                 | 1/4              | 17103                     |
| Mold & Die | SA-41L3     | 1/16                | 3                 | 1/4              | 17125                     |
| Mold & Die | SA-41L3     | 1/16                | 3                 | 1/4              | 17128                     |
| Mold & Die | SA-42       | 3/32                | 1 1/2             | 7/16             | 10625                     |
| Mold & Die | SA-42       | 3/32                | 1 1/2             | 7/16             | 10628                     |
| Mold & Die | SA-42L2     | 3/32                | 2                 | 7/16             | 17150                     |
| Mold & Die | SA-42L2     | 3/32                | 2                 | 7/16             | 17153                     |
| Mold & Die | SA-42L3     | 3/32                | 3                 | 7/16             | 17175                     |
| Mold & Die | SA-42L3     | 3/32                | 3                 | 7/16             | 17178                     |
| Mold & Die | SA-43       | 1/8                 | 1 1/2             | 9/16             | 10650                     |
| Mold & Die | SA-43       | 1/8                 | 1 1/2             | 9/16             | 10653                     |
| Mold & Die | SA-43L2     | 1/8                 | 2                 | 9/16             | 17200                     |
| Mold & Die | SA-43L2     | 1/8                 | 2                 | 9/16             | 17203                     |
| Mold & Die | SA-43L3     | 1/8                 | 3                 | 9/16             | 17225                     |
| Mold & Die | SA-43L3     | 1/8                 | 3                 | 9/16             | 17228                     |
| Mold & Die | SB-41       | 1/16                | 1 1/2             | 1/4              | 11450                     |
| Mold & Die | SB-41       | 1/16                | 1 1/2             | 1/4              | 11453                     |



### Recommended Air Tools

#### FEATURES

Deburring to finishing

#### TOOL

SP & SD Line



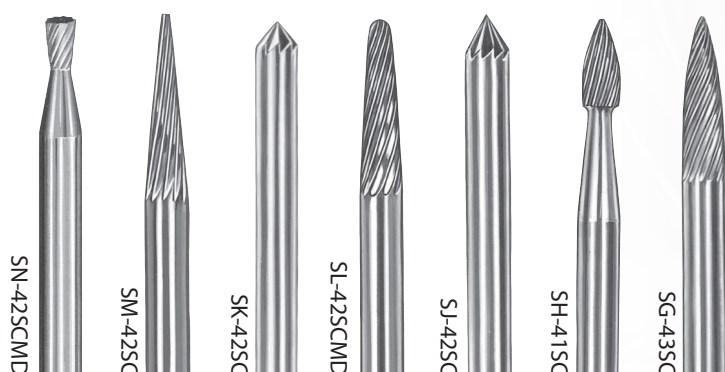
Wear Eye Protection!



Wear Hearing Protection!



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



| Mold & Die 4 |             |                     |                   |                  |                           |
|--------------|-------------|---------------------|-------------------|------------------|---------------------------|
| Line         | Description | Cutting Diameter D1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. |
| Mold & Die   | SB-41L2     | 1/16                | 2                 | 1/4              | 17250                     |
| Mold & Die   | SB-41L2     | 1/16                | 2                 | 1/4              | 17253                     |
| Mold & Die   | SB-41L3     | 1/16                | 3                 | 1/4              | 17275                     |
| Mold & Die   | SB-41L3     | 1/16                | 3                 | 1/4              | 17278                     |
| Mold & Die   | SB-42       | 3/32                | 1 1/2             | 7/16             | 11475                     |
| Mold & Die   | SB-42       | 3/32                | 1 1/2             | 7/16             | 11478                     |
| Mold & Die   | SB-42L2     | 3/32                | 2                 | 7/16             | 17300                     |
| Mold & Die   | SB-42L2     | 3/32                | 2                 | 7/16             | 17303                     |
| Mold & Die   | SB-42L3     | 3/32                | 3                 | 7/16             | 17325                     |
| Mold & Die   | SB-42L3     | 3/32                | 3                 | 7/16             | 17328                     |
| Mold & Die   | SB-43       | 1/8                 | 1 1/2             | 9/16             | 11500                     |
| Mold & Die   | SB-43       | 1/8                 | 1 1/2             | 9/16             | 11503                     |
| Mold & Die   | SB-43L2     | 1/8                 | 2                 | 9/16             | 17350                     |
| Mold & Die   | SB-43L2     | 1/8                 | 2                 | 9/16             | 17353                     |
| Mold & Die   | SB-43L3     | 1/8                 | 3                 | 9/16             | 17375                     |
| Mold & Die   | SB-43L3     | 1/8                 | 3                 | 9/16             | 17378                     |
| Mold & Die   | SB-ECO      | 1/8                 | 1 1/2             | 0                | 11525                     |
| Mold & Die   | SC-41       | 3/32                | 1 1/2             | 7/16             | 12250                     |
| Mold & Die   | SC-41       | 3/32                | 1 1/2             | 7/16             | 12253                     |
| Mold & Die   | SC-42       | 1/8                 | 1 1/2             | 9/16             | 12275                     |
| Mold & Die   | SC-42       | 1/8                 | 1 1/2             | 9/16             | 12278                     |
| Mold & Die   | SC-42L2     | 1/8                 | 2                 | 9/16             | 17450                     |
| Mold & Die   | SC-42L2     | 1/8                 | 2                 | 9/16             | 17453                     |
| Mold & Die   | SC-42L3     | 1/8                 | 3                 | 9/16             | 17475                     |
| Mold & Die   | SC-42L3     | 1/8                 | 3                 | 9/16             | 17478                     |
| Mold & Die   | SD-41       | 3/32                | 1 1/2             | 3/32             | 12775                     |
| Mold & Die   | SD-41       | 3/32                | 1 1/2             | 3/32             | 12778                     |
| Mold & Die   | SD-42       | 1/8                 | 1 1/2             | 1/8              | 12800                     |
| Mold & Die   | SD-42       | 1/8                 | 1 1/2             | 1/8              | 12803                     |
| Mold & Die   | SD-42L2     | 1/8                 | 2                 | 1/8              | 17550                     |

## PERFORMANCE

### Mold & Die 4

#### Mold & Die 4

| Line       | Description | Cutting Diameter D1 | Shank Diameter D2 | Length of Cut l2 | Double Cut (DC 6) EDP No. |
|------------|-------------|---------------------|-------------------|------------------|---------------------------|
| Mold & Die | SD-42L2     | 1/8                 | 2                 | 1/8              | 17553                     |
| Mold & Die | SD-42L3     | 1/8                 | 3                 | 1/8              | 17575                     |
| Mold & Die | SD-42L3     | 1/8                 | 3                 | 1/8              | 17578                     |
| Mold & Die | SE-41       | 1/8                 | 1 1/2             | 7/32             | 13150                     |
| Mold & Die | SE-41       | 1/8                 | 1 1/2             | 7/32             | 13153                     |
| Mold & Die | SE-41L2     | 1/8                 | 2                 | 7/32             | 17600                     |
| Mold & Die | SE-41L2     | 1/8                 | 2                 | 7/32             | 17603                     |
| Mold & Die | SE-41L3     | 1/8                 | 3                 | 7/32             | 17625                     |
| Mold & Die | SE-41L3     | 1/8                 | 3                 | 7/32             | 17628                     |
| Mold & Die | SF-41       | 1/8                 | 1 1/2             | 1/4              | 13675                     |
| Mold & Die | SF-41       | 1/8                 | 1 1/2             | 1/4              | 13678                     |
| Mold & Die | SF-42       | 1/8                 | 1 1/2             | 1/2              | 13700                     |
| Mold & Die | SF-42       | 1/8                 | 1 1/2             | 1/2              | 13703                     |
| Mold & Die | SF-42L2     | 1/8                 | 2                 | 1/2              | 17650                     |
| Mold & Die | SF-42L2     | 1/8                 | 2                 | 1/2              | 17653                     |
| Mold & Die | SF-42L3     | 1/8                 | 3                 | 1/2              | 17675                     |
| Mold & Die | SF-42L3     | 1/8                 | 3                 | 1/2              | 17678                     |
| Mold & Die | SG-41       | 1/8                 | 1 1/2             | 1/4              | 14150                     |
| Mold & Die | SG-41       | 1/8                 | 1 1/2             | 1/4              | 14153                     |
| Mold & Die | SG-43       | 1/8                 | 1 1/2             | 3/8              | 14200                     |
| Mold & Die | SG-43       | 1/8                 | 1 1/2             | 3/8              | 14203                     |
| Mold & Die | SG-44       | 1/8                 | 1 1/2             | 1/2              | 14225                     |
| Mold & Die | SG-44       | 1/8                 | 1 1/2             | 1/2              | 14228                     |
| Mold & Die | SG-44L2     | 1/8                 | 2                 | 1/2              | 17850                     |
| Mold & Die | SG-44L2     | 1/8                 | 2                 | 1/2              | 17853                     |
| Mold & Die | SG-44L3     | 1/8                 | 3                 | 1/2              | 17875                     |
| Mold & Die | SG-44L3     | 1/8                 | 3                 | 1/2              | 17878                     |
| Mold & Die | SH-41       | 1/8                 | 1 1/2             | 1/4              | 14550                     |
| Mold & Die | SH-41       | 1/8                 | 1 1/2             | 1/4              | 14553                     |
| Mold & Die | SH-41L2     | 1/8                 | 2                 | 1/4              | 17900                     |
| Mold & Die | SH-41L2     | 1/8                 | 2                 | 1/4              | 17903                     |
| Mold & Die | SH-41L3     | 1/8                 | 3                 | 1/4              | 17925                     |
| Mold & Die | SH-41L3     | 1/8                 | 3                 | 1/4              | 17928                     |
| Mold & Die | SK-42       | 1/8                 | 1 1/2             | 1/16             | 15150                     |





| Mold & Die 4 |             |                     |                   |                  |                           |
|--------------|-------------|---------------------|-------------------|------------------|---------------------------|
| Line         | Description | Cutting Diameter D1 | Shank Diameter D2 | Length of Cut l2 | Double Cut (DC 6) EDP No. |
| Mold & Die   | SK-42       | 1/8                 | 1 1/2             | 1/16             | 15153                     |
| Mold & Die   | SL-41       | 1/8                 | 1 1/2             | 3/8              | 15400                     |
| Mold & Die   | SL-41       | 1/8                 | 1 1/2             | 3/8              | 15403                     |
| Mold & Die   | SL-42       | 1/8                 | 1 1/2             | 1/2              | 15425                     |
| Mold & Die   | SL-42       | 1/8                 | 1 1/2             | 1/2              | 15428                     |
| Mold & Die   | SL-42L2     | 1/8                 | 2                 | 1/2              | 17950                     |
| Mold & Die   | SL-42L2     | 1/8                 | 2                 | 1/2              | 17953                     |
| Mold & Die   | SL-42L3     | 1/8                 | 3                 | 1/2              | 17975                     |
| Mold & Die   | SL-42L3     | 1/8                 | 3                 | 1/2              | 17978                     |
| Mold & Die   | SM-41       | 1/8                 | 1 1/2             | 11/32            | 15675                     |
| Mold & Die   | SM-41       | 1/8                 | 1 1/2             | 11/32            | 15678                     |
| Mold & Die   | SM-42       | 1/8                 | 1 1/2             | 7/16             | 15700                     |
| Mold & Die   | SM-42       | 1/8                 | 1 1/2             | 7/16             | 15703                     |
| Mold & Die   | SM-42L2     | 1/8                 | 2                 | 7/16             | 18050                     |
| Mold & Die   | SM-42L2     | 1/8                 | 2                 | 7/16             | 18053                     |
| Mold & Die   | SM-42L3     | 1/8                 | 3                 | 7/16             | 18075                     |
| Mold & Die   | SM-42L3     | 1/8                 | 3                 | 7/16             | 18078                     |
| Mold & Die   | SM-43       | 1/8                 | 1 1/2             | 5/8              | 15725                     |
| Mold & Die   | SM-43       | 1/8                 | 1 1/2             | 5/8              | 15728                     |
| Mold & Die   | SN-41       | 3/32                | 1 1/2             | 1/8              | 16025                     |
| Mold & Die   | SN-41       |                     |                   |                  | 16028                     |
| Mold & Die   | SN-42       | 1/8                 | 1 1/2             | 3/16             | 16050                     |
| Mold & Die   | SN-42       | 1/8                 | 1 1/2             | 3/16             | 16053                     |

## Ordering Information

For more information and / or to place an order, please contact  
ATA Customer Service on +3330-928-77-44 or by email [sales@atataools.com](mailto:sales@atataools.com).

## PERFORMANCE Mold & Die 5

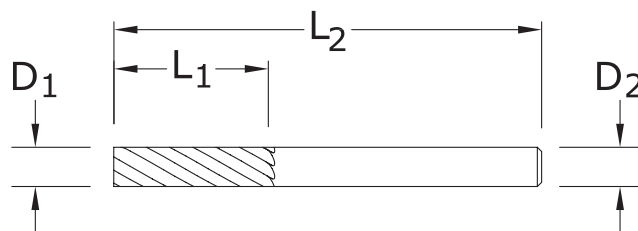
### Features & Benefits - MOLD & DIE

#### FEATURES

Special range  
Good finish and high stock removal  
Specific rake angle

#### BENEFITS

Best solution for mold specialists  
Responst to complex application  
Suitable for very hard material and increase life while keeping sharpness



#### Mold & Die 5

| Line       | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. |
|------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|
| Mold & Die | SA-51       | 1/4                 | 2                 | 1/8               | 1/2              | 10675                     |
| Mold & Die | SA-51       | 1/4                 | 2                 | 1/8               | 1/2              | 10678                     |
| Mold & Die | SA-52       | 5/32                | 1 1/2             | 1/8               | 1/2              | 10700                     |
| Mold & Die | SA-52       | 5/32                | 1 1/2             | 1/8               | 1/2              | 10703                     |
| Mold & Die | SA-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 10725                     |
| Mold & Die | SA-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 10728                     |
| Mold & Die | SB-51       | 1/4                 | 1 11/16           | 1/8               | 3/16             | 11550                     |
| Mold & Die | SB-51       | 1/4                 | 1 11/16           | 1/8               | 3/16             | 11553                     |
| Mold & Die | SB-ECO      | 1/8                 | 1 1/2             | 0                 | 0                | 11525                     |
| Mold & Die | SC-51       | 1/4                 | 2                 | 1/8               | 1/2              | 12300                     |
| Mold & Die | SC-51       | 1/4                 | 2                 | 1/8               | 1/2              | 12303                     |
| Mold & Die | SC-52       | 5/32                | 1 1/2             | 1/8               | 1/2              | 12325                     |
| Mold & Die | SC-52       | 5/32                | 1 1/2             | 1/8               | 1/2              | 12328                     |
| Mold & Die | SC-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 12350                     |
| Mold & Die | SC-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 12353                     |
| Mold & Die | SD-51       | 1/4                 | 1 3/4             | 1/8               | 7/32             | 12825                     |
| Mold & Die | SD-51       | 1/4                 | 1 3/4             | 1/8               | 7/32             | 12828                     |
| Mold & Die | SD-52       | 5/32                | 1 1/2             | 1/8               | 5/32             | 12837                     |
| Mold & Die | SD-52       | 5/32                | 1 1/2             | 1/8               | 5/32             | 12840                     |
| Mold & Die | SD-53       | 3/16                | 1 1/2             | 1/8               | 5/32             | 12850                     |



### Recommended Air Tools

#### FEATURES

Deburring to finishing

#### TOOL

SP & SD Line



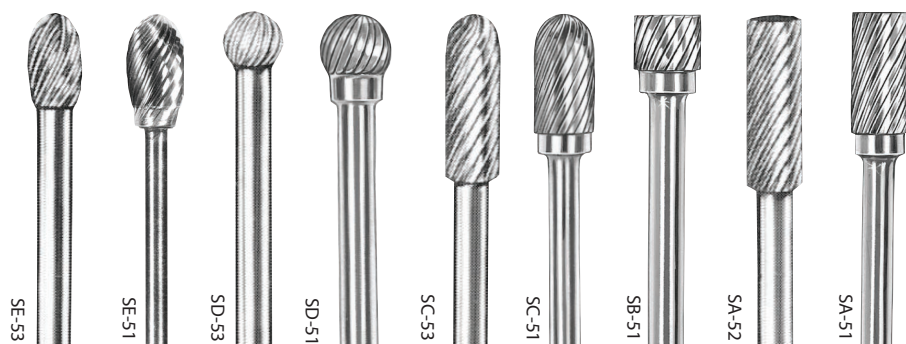
Wear Eye Protection!



Wear Hearing Protection!



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



## Mold & Die 5

| Line       | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. |
|------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|
| Mold & Die | SD-53       | 3/16                | 1 1/2             | 1/8               | 5/32             | 12853                     |
| Mold & Die | SE-51       | 1/4                 | 1 8/9             | 1/8               | 3/8              | 13175                     |
| Mold & Die | SE-51       | 1/4                 | 1 8/9             | 1/8               | 3/8              | 13178                     |
| Mold & Die | SE-53       | 3/16                | 1 1/2             | 1/8               | 9/32             | 13200                     |
| Mold & Die | SE-53       | 3/16                | 1 1/2             | 1/8               | 9/32             | 13203                     |
| Mold & Die | SF-51       | 1/4                 | 2                 | 1/8               | 1/2              | 13725                     |
| Mold & Die | SF-51       | 1/4                 | 2                 | 1/8               | 1/2              | 13728                     |
| Mold & Die | SF-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 13750                     |
| Mold & Die | SF-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 13753                     |
| Mold & Die | SG-51       | 1/4                 | 2                 | 1/8               | 1/2              | 14250                     |
| Mold & Die | SG-51       | 1/4                 | 2                 | 1/8               | 1/2              | 14253                     |
| Mold & Die | SG-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 14275                     |
| Mold & Die | SG-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 14278                     |
| Mold & Die | SH-53       | 3/16                | 1 1/2             | 1/8               | 3/8              | 14600                     |
| Mold & Die | SH-53       | 3/16                | 1 1/2             | 1/8               | 3/8              | 14603                     |
| Mold & Die | SL-53       | 3/16                | 1 1/2             | 1/2               | 1/2              | 15450                     |
| Mold & Die | SL-53       | 3/16                | 1 1/2             | 1/2               | 1/2              | 15453                     |
| Mold & Die | SM-51       | 1/4                 | 2 1/9             | 1/8               | 1/2              | 15750                     |
| Mold & Die | SM-51       | 1/4                 | 2 1/9             | 1/8               | 1/2              | 15753                     |
| Mold & Die | SM-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 15775                     |
| Mold & Die | SM-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 15778                     |
| Mold & Die | SN-51       | 1/4                 | 1 3/4             | 1/8               | 1/4              | 16075                     |
| Mold & Die | SN-51       | 1/4                 | 1 3/4             | 1/8               | 1/4              | 16078                     |
| Mold & Die | SN-53       | 3/16                | 1 1/2             | 1/8               | 1/4              | 16100                     |
| Mold & Die | SN-53       | 3/16                | 1 1/2             | 1/8               | 1/4              | 16103                     |



## PERFORMANCE FGR

### Features & Benefits - FIBREGLASS ROUTER - FGR

#### FEATURES

Specific cut style

Extra carbide stiffness and tolerance

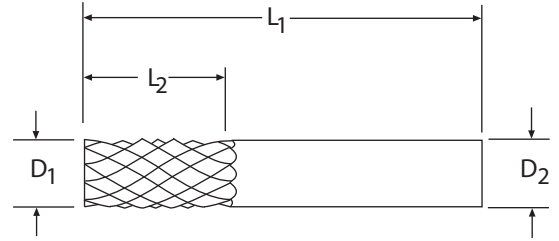
Wide size available

#### BENEFITS

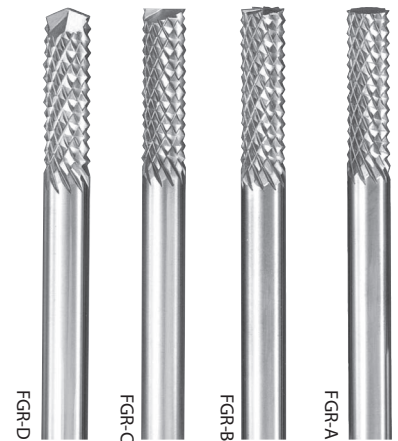
Best for roughing and contouring composite

To suit handheld and CNC machines operation

Suit large fiberglass panel to small composite parts



| FGR               |             |                     |                   |                   |                  |                             |                            |                               |                              |
|-------------------|-------------|---------------------|-------------------|-------------------|------------------|-----------------------------|----------------------------|-------------------------------|------------------------------|
| Line              | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | A Type (w/o Endcut) EDP No. | B Type (w/ Endcut) EDP No. | C Type (End-mill cut) EDP No. | D Type (Drill Point) EDP No. |
| Fibreglass Router | FGR-1       | 1/16                | 1/8               | 1 1/2             | 3/16             | 73001                       | 73015                      | 73030                         | 73045                        |
| Fibreglass Router | FGR 1-1     | 3/32                | 1/8               | 1 1/2             | 3/8              | 73002                       | 73016                      | 73031                         | 73046                        |
| Fibreglass Router | FGR-2       | 1/8                 | 1/8               | 1 1/2             | 1/2              | 73003                       | 73017                      | 73032                         | 73047                        |
| Fibreglass Router | FGR-3       | 3/16                | 3/16              | 2                 | 5/8              | 73004                       | 73018                      | 73033                         | 73048                        |
| Fibreglass Router | FGR-4       | 3/16                | 1/4               | 2                 | 5/8              | 73005                       | 73019                      | 73034                         | 73049                        |
| Fibreglass Router | FGR-5       | 1/4                 | 1/4               | 2                 | 3/4              | 73006                       | 73020                      | 73035                         | 73050                        |
| Fibreglass Router | FGR-6       | 1/4                 | 1/4               | 2 1/2             | 3/4              | 73007                       | 73021                      | 73036                         | 73051                        |
| Fibreglass Router | FGR 6-1     | 1/4                 | 1/4               | 3                 | 1                | 73008                       | 73022                      | 73037                         | 73052                        |
| Fibreglass Router | FGR-7       | 5/16                | 5/16              | 2 1/2             | 1                | 73009                       | 73023                      | 73038                         | 73053                        |
| Fibreglass Router | FGR-8       | 3/8                 | 3/8               | 2 1/2             | 1                | 73010                       | 73024                      | 73039                         | 73054                        |
| Fibreglass Router | FGR-9       | 1/2                 | 1/2               | 3                 | 1                | 73011                       | 73025                      | 73040                         | 73055                        |



### Recommended Air Tools

#### FEATURES

Contouring, finishing

#### TOOL

SMD



Wear Eye Protection!



Wear Hearing Protection!



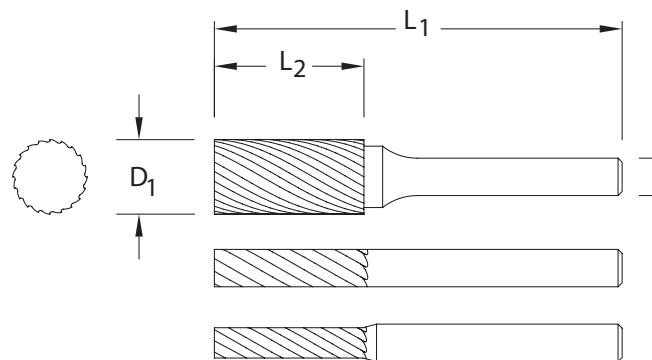
Observe the recommended rotational speed, especially when using burs with long shanks!





- Solutions for universal applications
- High quality ensuring reliability

# UNIVERSAL RANGE



## Universal SA- Cylinder Shape

| Line | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SA   | *SA-15      | 3/4                 | 2 1/4             | 1/4               | 1/2              | 10503                     | 10500                     | -                    |
| SA   | *SA-16      | 3/4                 | 2 1/2             | 1/4               | 3/4              | 10553                     | 10550                     | -                    |
| SA   | *SA-6       | 5/8                 | 2 3/4             | 1/4               | 1                | 10203                     | 10200                     | 19006                |
| SA   | *SA-6NF     | 5/8                 | 2 3/4             | 1/4               | 1                |                           |                           | 19006                |
| SA   | *SA-7       | 3/4                 | 2 3/4             | 1/4               | 1                | 10253                     | 10250                     | 19008                |
| SA   | *SA-8       | 7/8                 | 2 3/4             | 1/4               | 1                | 10300                     |                           | -                    |
| SA   | *SA-8       | 7/8                 | 2 3/4             | 1/4               | 1                | 10303                     |                           | -                    |
| SA   | *SA-9       | 1                   | 2 3/4             | 1/4               | 1                | 10353                     | 10350                     | 19010                |
| SA   | SA-1        | 1/4                 | 2                 | 1/4               | 5/8              | 10003                     | 10000                     | 19000                |
| SA   | SA-11       | 1/8                 | 2 5/16            | 1/4               | 1/2              | 10403                     | 10400                     | -                    |
| SA   | SA-12       | 1/8                 | 2 4/9             | 1/4               | 5/8              | 10428                     | 10425                     | -                    |
| SA   | SA-13       | 5/32                | 2                 | 1/4               | 5/8              | 10453                     | 10450                     | -                    |
| SA   | SA-14       | 3/16                | 2                 | 1/4               | 5/8              | 10478                     | 10475                     | -                    |
| SA   | SA-1L       | 1/4                 | 2                 | 1/4               | 1                | 10028                     | 10025                     | -                    |
| SA   | SA-1L6      | 1/4                 | 6 1/2             | 1/4               | 5/8              | 16178                     | 16175                     | -                    |
| SA   | SA-1NF      | 1/4                 | 2                 | 1/4               | 3/4              | 19000                     |                           | -                    |
| SA   | SA-2        | 5/16                | 2 1/2             | 1/4               | 3/4              | 10053                     | 10050                     | -                    |
| SA   | SA-3        | 3/8                 | 2 1/2             | 1/4               | 3/4              | 10078                     | 10075                     | 19002                |
| SA   | SA-3L       | 3/8                 | 2 3/4             | 1/4               | 1                | 10103                     | 10100                     | -                    |
| SA   | SA-3L6      | 3/8                 | 6 3/4             | 1/4               | 3/4              | 16203                     | 16200                     | -                    |
| SA   | SA-3NF      | 3/8                 | 2 1/2             | 1/4               | 3/4              | 19002                     |                           | -                    |
| SA   | SA-3X       | 3/8                 | 3 1/4             | 1/4               | 1 1/2            | 10128                     | 10125                     | -                    |



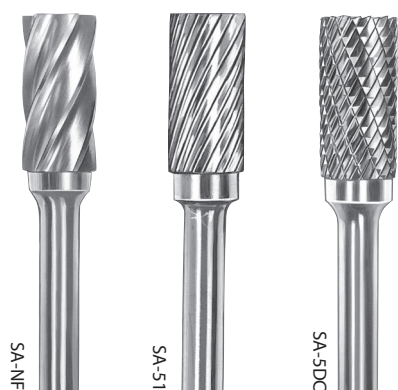
## Recommended Air Tools

### FEATURES

Contouring, finishing

### TOOL

SMD



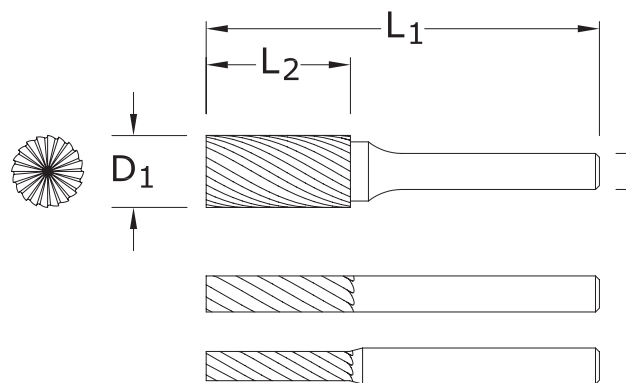
### Universal SA - Cylinder Shape

| Line | Description | Cutting Diameter D1 | Overall Length l1 | Shank Diameter D2 | Length of Cut l2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SA   | SA-4        | 7/16                | 2 3/4             | 1/4               | 1                | 10153                     | 10150                     | -                    |
| SA   | SA-41       | 1/16                | 1 1/2             | 1/8               | 1/4              | 10603                     | 10600                     | -                    |
| SA   | SA-41L2     | 1/16                | 2                 | 1/8               | 1/4              | 17103                     | 17100                     | -                    |
| SA   | SA-41L3     | 1/16                | 3                 | 1/8               | 1/4              | 17128                     | 17125                     | -                    |
| SA   | SA-42       | 3/32                | 1 1/2             | 1/8               | 7/16             | 10628                     | 10625                     | -                    |
| SA   | SA-42L2     | 3/32                | 2                 | 1/8               | 7/16             | 17153                     | 17150                     | -                    |
| SA   | SA-42L3     | 3/32                | 3                 | 1/8               | 7/16             | 17178                     | 17175                     | -                    |
| SA   | SA-43       | 1/8                 | 1 1/2             | 1/8               | 9/16             | 10653                     | 10650                     | --                   |
| SA   | SA-43L2     | 1/8                 | 2                 | 1/8               | 9/16             | 17203                     | 17200                     | -                    |
| SA   | SA-43L3     | 1/8                 | 3                 | 1/8               | 9/16             | 17228                     | 17225                     | -                    |
| SA   | SA-5        | 1/2                 | 2 3/4             | 1/4               | 1                | 10178                     | 10175                     | 19004                |
| SA   | SA-51       | 1/4                 | 2                 | 1/8               | 1/2              | 10678                     | 10675                     | -                    |
| SA   | SA-52       | 5/32                | 1 1/2             | 1/8               | 1/2              | 10703                     | 10700                     | -                    |
| SA   | SA-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 10728                     | 10725                     | -                    |
| SA   | SA-5L6      | 1/2                 | 7                 | 1/4               | 1                | 16228                     | 16225                     | -                    |
| SA   | SA-5NF      | 1/2                 | 2 3/4             | 1/4               | 1                | 19004                     | -                         | -                    |
| SA   | SA-61       | 1/16                | 1 1/4             | 3/32              | 1/4              | 10753                     | 10750                     | -                    |
| SA   | SA-63       | 3/32                | 1 1/4             | 3/32              | 3/8              | 10778                     | 10775                     | -                    |
| SA   | SA-7NF      | 3/4                 | 2 3/4             | 1/4               | 1                | 19008                     | -                         | -                    |
| SA   | SA-7NF3/8   | 3/4                 | 3                 | 3/8               | 1                | 19010                     | -                         | -                    |
| SA   | SA-81       | 3/16                | 2                 | 3/16              | 1/2              | 10803                     | 10800                     | -                    |

### Universal SA - Long Shank

| Line | Description | Cutting Diameter D1 | Overall Length l1 | Shank Diameter D2 | Length of Cut l2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SA   | SA-1L6      | 1/4                 | 6 1/2             | 1/4               | 1/2              | 16178                     | 16175                     | -                    |
| SA   | SA-3L6      | 3/8                 | 6 3/4             | 1/4               | 3/4              | 16203                     | 16200                     | -                    |
| SA   | SA-5L6      | 1/2                 | 7                 | 1/4               | 1                | 16228                     | 16225                     | -                    |

# UNIVERSAL SB



## Universal SB - Cylinder Shape

| Line (End Cut) | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SB             | *SB-15      | 3/4                 | 2 1/4             | 1/4               | 1/2              | 11350                     | -                         | --                   |
| SB             | *SB-15      | 3/4                 | 2 1/4             | 1/4               | 1/2              | 11353                     | -                         | -                    |
| SB             | *SB-16      | 3/4                 | 2 1/2             | 1/4               | 3/4              | 11400                     | -                         | -                    |
| SB             | *SB-16      | 3/4                 | 2 1/2             | 1/4               | 3/4              | 11403                     | -                         | -                    |
| SB             | *SB-6       | 5/8                 | 2 3/4             | 1/4               | 1                | 11053                     | 11050                     | 19018                |
| SB             | *SB-6NF     | 5/8                 | 2 3/4             | 1/4               | 1                | 19018                     |                           | -                    |
| SB             | *SB-7       | 3/4                 | 2 3/4             | 1/4               | 1                | 11103                     | 11100                     | 19020                |
| SB             | *SB-8       | 7/8                 | 2 3/4             | 1/4               | 1                | 11153                     | 11150                     | 19022                |
| SB             | *SB-9       | 1                   | 2 3/4             | 1/4               | 1                | 11203                     | 11200                     | -                    |
| SB             | SB-1        | 1/4                 | 2                 | 1/4               | 5/8              | 10853                     | 10850                     | 19012                |
| SB             | SB-11       | 1/8                 | 2 5/16            | 1/4               | 1/2              | 11253                     | 11250                     | -                    |
| SB             | SB-12       | 1/8                 | 2 4/9             | 1/4               | 5/8              | 11278                     | 11275                     | -                    |
| SB             | SB-13       | 5/32                | 2                 | 1/4               | 5/8              | 11303                     | 11300                     | -                    |
| SB             | SB-14       | 3/16                | 2                 | 1/4               | 5/8              | 10328                     | 10825                     | -                    |
| SB             | SB-1L       | 1/4                 | 2                 | 1/4               | 1                | 10878                     | 10875                     | -                    |
| SB             | SB-1NF      | 1/4                 | 2                 | 1/4               | 3/4              | 19012                     | -                         | -                    |
| SB             | SB-2        | 5/16                | 2 1/2             | 1/4               | 3/4              | 10903                     | 10900                     | -                    |
| SB             | SB-3        | 3/8                 | 2 1/2             | 1/4               | 3/4              | 10928                     | 10925                     | 19014                |
| SB             | SB-3L       | 3/8                 | 2 3/4             | 1/4               | 1                | 10953                     | 10950                     |                      |



## Recommended Air Tools

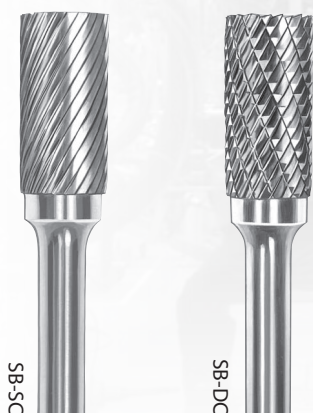
### FEATURES

Contouring, finishing

### TOOL

SMD





### Universal SB - Cylinder Shape

| Line (End Cut) | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SB             | SB-3NF      | 3/8                 | 2 1/2             | 1/4               | 3/4              | 19014                     | -                         | -                    |
| SB             | SB-3X       | 3/8                 | 3 1/4             | 1/4               | 1 1/2            | 10978                     | 10975                     | -                    |
| SB             | SB-4        | 7/16                | 2 3/4             | 1/4               | 1                | 11003                     | 11000                     | -                    |
| SB             | SB-41       | 1/16                | 1 1/2             | 1/8               | 1/4              | 11453                     | 11450                     | -                    |
| SB             | SB-41L2     | 1/16                | 2                 | 1/8               | 1/4              | 17253                     | 17250                     | -                    |
| SB             | SB-41L3     | 1/16                | 3                 | 1/8               | 1/4              | 17278                     | 17275                     | -                    |
| SB             | SB-42       | 3/32                | 1 1/2             | 1/8               | 7/16             | 11478                     | 11475                     | -                    |
| SB             | SB-42L2     | 3/32                | 2                 | 1/8               | 7/16             | 17303                     | 17300                     | -                    |
| SB             | SB-42L3     | 3/32                | 3                 | 1/8               | 7/16             | 17328                     | 17325                     | -                    |
| SB             | SB-43       | 1/8                 | 1 1/2             | 1/8               | 9/16             | 11503                     | 11500                     | -                    |
| SB             | SB-43L2     | 1/8                 | 2                 | 1/8               | 9/16             | 17353                     | 17350                     | -                    |
| SB             | SB-43L3     | 1/8                 | 3                 | 1/8               | 9/16             | 17378                     | 17375                     | -                    |
| SB             | SB-5        | 1/2                 | 2 3/4             | 1/4               | 1                | 11028                     | 11025                     | 19016                |
| SB             | SB-51       | 1/4                 | 1 11/16           | 1/8               | 3/16             | 11550                     | 11553                     | -                    |
| SB             | SB-5NF      | 1/2                 | 2 3/4             | 1/4               | 1                | 19016                     | -                         | -                    |
| SB             | SB-7NF      | 3/4                 | 2 3/4             | 1/4               | 1                | 19020                     | -                         | -                    |
| SB             | SB-7NF3/8   | 3/4                 | 3                 | 3/8               | 1                | 19022                     | -                         | -                    |
| SB             | SB-ECO      | -                   | -                 | -                 | -                | -                         | 11525                     | -                    |

## Ordering Information

For more information and / or to place an order, please contact  
ATA Customer Service on +3330-928-77-44 or by email [sales@atatools.com](mailto:sales@atatools.com).

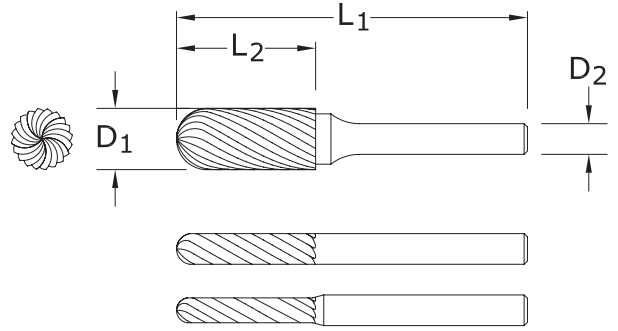
## Features & Benefits - SC SINGLE CUT

### FEATURES

Single Flute  
Neutral rake angle  
Reliable geometry

### BENEFITS

Very good finish  
Good cutting action while stronger  
Versatile applications & materials



### Universal SC - Cylinder Shape

| Line | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SC   | *SC-15      | 3/4                 | 2 1/4             | 1/4               | 1/2              | 12153                     | 12150                     | -                    |
| SC   | *SC-16      | 3/4                 | 2 1/2             | 1/4               | 3/4              | 12203                     | 12200                     | -                    |
| SC   | *SC-6       | 5/8                 | 2 3/4             | 1/4               | 1                | 11903                     | 11900                     | 19030                |
| SC   | *SC-6NF     | 5/8                 | 2 3/4             | 1/4               | 1                | 19030                     | -                         | -                    |
| SC   | *SC-7       | 3/4                 | 2 3/4             | 1/4               | 1                | 11953                     | 11950                     | 19032                |
| SC   | *SC-9       | 1                   | 2 3/4             | 1/4               | 1                | 12003                     | 12000                     | 19034                |
| SC   | SC-1        | 1/4                 | 2                 | 1/4               | 5/8              | 11703                     | 11700                     | 19024                |
| SC   | SC-11       | 1/8                 | 2 5/16            | 1/4               | 1/2              | 12053                     | 12050                     | -                    |
| SC   | SC-12       | 1/8                 | 2 4/9             | 1/4               | 5/8              | 12078                     | 12075                     | -                    |
| SC   | SC-13       | 5/32                | 2                 | 1/4               | 5/8              | 12103                     | 12100                     | -                    |
| SC   | SC-14       | 3/16                | 2                 | 1/4               | 5/8              | 12128                     | 12125                     | -                    |
| SC   | SC-1L       | 1/4                 | 2                 | 1/4               | 1                | 11728                     | 11725                     | -                    |
| SC   | SC-1L6      | 1/4                 | 6 1/2             | 1/4               | 1/2              | 16328                     | 16325                     | -                    |
| SC   | SC-1NF      | 1/4                 | 2                 | 1/4               | 3/4              | 19024                     | -                         | -                    |
| SC   | SC-2        | 5/16                | 2 1/2             | 1/4               | 3/4              | 11753                     | 11750                     | -                    |
| SC   | SC-3        | 3/8                 | 2 1/2             | 1/4               | 3/4              | 11778                     | 11775                     | 19026                |
| SC   | SC-3L       | 3/8                 | 2 3/4             | 1/4               | 1                | 11803                     | 11800                     | -                    |
| SC   | SC-3L6      | 3/8                 | 6 3/4             | 1/4               | 3/4              | 16353                     | 16350                     | -                    |
| SC   | SC-3NF      | 3/8                 | 2 1/2             | 1/4               | 3/4              | 19026                     | -                         | -                    |
| SC   | SC-3X       | 3/8                 | 3 1/4             | 1/4               | 1 1/2            | 11828                     | 11825                     | -                    |
| SC   | SC-4        | 7/16                | 2 3/4             | 1/4               | 1                | 11853                     | 11850                     | -                    |
| SC   | SC-41       | 3/32                | 1 1/2             | 1/8               | 7/16             | 12253                     | 12250                     | -                    |



## Recommended Air Tools

### FEATURES

Small diameter for finishing

### TOOL

SP/S & SD



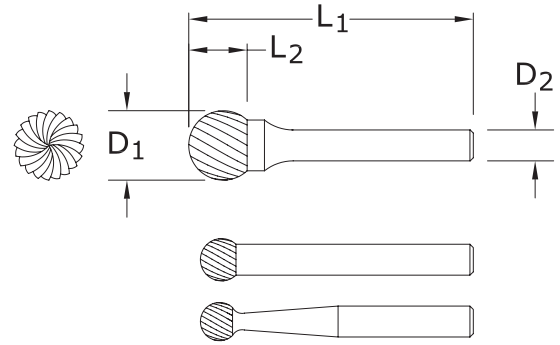
| Line | Description | Cutting Diameter D1 | Overall Length l1 | Shank Diameter D2 | Length of Cut l2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SC   | SC-42       | 1/8                 | 1 1/2             | 1/8               | 9/16             | 12278                     | 12275                     | -                    |
| SC   | SC-42L2     | 1/8                 | 2                 | 1/8               | 9/16             | 17453                     | 17450                     | -                    |
| SC   | SC-42L3     | 1/8                 | 3                 | 1/8               | 9/16             | 17478                     | 17475                     | -                    |
| SC   | SC-5        | 1/2                 | 2 3/4             | 1/4               | 1                | 11878                     | 11875                     | 19028                |
| SC   | SC-51       | 1/4                 | 2                 | 1/8               | 1/2              | 12303                     | 12300                     | -                    |
| SC   | SC-52       | 5/32                | 1 1/2             | 1/8               | 1/2              | 12328                     | 12325                     | -                    |
| SC   | SC-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 12353                     | 12350                     | -                    |
| SC   | SC-5L6      | 1/2                 | 7                 | 1/4               | 1                | 16378                     | 16375                     | -                    |
| SC   | SC-5NF      | 1/2                 | 2 3/4             | 1/4               | 1                | 19028                     | -                         | -                    |
| SC   | SC-61       | 3/32                | 1 1/4             | 3/32              | 3/8              | 12378                     | 12375                     | -                    |
| SC   | SC-7NF      | 3/4                 | 2 3/4             | 1/4               | 1                | 19032                     | -                         | -                    |
| SC   | SC-7NF3/8   | 3/4                 | 3                 | 3/8               | 1                | 19034                     | -                         | -                    |
| SC   | SC-81       | 3/16                | 2                 | 3/16              | 1/2              | 12403                     | 12400                     | -                    |

| Line - Long Shank | Description | Cutting Diameter D1 | Overall Length l1 | Shank Diameter D2 | Length of Cut l2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-------------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|
| SC                | SC-1L6      | 1/4                 | 6 1/2             | 1/4               | 1/2              | 16328                     | 16325                     |
| SC                | SC-3L6      | 3/8                 | 6 3/4             | 1/4               | 3/4              | 16353                     | 16350                     |
| SC                | SC-5L6      | 1/2                 | 7                 | 1/4               | 1                | 16378                     | 16375                     |
| SC                | SC-1ML6     | 6                   | 162               | 6                 | 12,7             | 26328                     | 26325                     |
| SC                | SC-3ML6     | 9,5                 | 169               | 6                 | 19               | 26353                     | 26350                     |
| SC                | SC-5ML6     | 12,7                | 175               | 6                 | 25               | 26378                     | 26375                     |

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## UNIVERSAL SD



### Universal SD - Ball Shape

| Line            | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SD - Ball Shape | *SD-6       | 5/8                 | 2 1/3             | 1/4               | 9/16             | 12578                     | 12575                     | 19042                |
| SD - Ball Shape | *SD-6NF     | 5/8                 | 2 1/3             | 1/4               | 9/16             | 19042                     | -                         | -                    |
| SD - Ball Shape | *SD-7       | 3/4                 | 2 4/9             | 1/4               | 11/16            | 12628                     | 12625                     | 19044                |
| SD - Ball Shape | *SD-9       | 1                   | 2 2/3             | 1/4               | 15/16            | 12678                     | 12675                     | 19046                |
| SD - Ball Shape | SD-1        | 1/4                 | 2                 | 1/4               | 7/32             | 12453                     | 12450                     | 19036                |
| SD - Ball Shape | SD-11       | 1/8                 | 2                 | 1/4               | 3/32             | 12728                     | 12725                     | -                    |
| SD - Ball Shape | SD-14       | 3/16                | 2                 | 1/4               | 1/8              | 12753                     | 12750                     | -                    |
| SD - Ball Shape | SD-1L6      | 1/4                 | 6 2/9             | 1/4               | 7/32             | 16403                     | 16400                     | -                    |
| SD - Ball Shape | SD-1NF      | 1/4                 | 2                 | 1/4               | 7/32             | 19036                     | -                         | -                    |
| SD - Ball Shape | SD-2        | 5/16                | 2                 | 1/4               | 1/4              | 12478                     | 12475                     | -                    |
| SD - Ball Shape | SD-3        | 3/8                 | 2 1/16            | 1/4               | 5/16             | 12503                     | 12500                     | 19038                |
| SD - Ball Shape | SD-3L6      | 3/8                 | 6 1/3             | 1/4               | 5/16             | 16428                     | 16425                     | -                    |
| SD - Ball Shape | SD-3NF      | 3/8                 | 2 1/16            | 1/4               | 5/16             | 19038                     | -                         | -                    |
| SD - Ball Shape | SD-4        | 7/16                | 2 1/7             | 1/4               | 3/8              | 12528                     | 12525                     | -                    |
| SD - Ball Shape | SD-41       | 3/32                | 1 1/2             | 1/8               | 3/32             | 12778                     | 12775                     | -                    |



### Recommended Air Tools

#### FEATURES

Small diameter for finishing

#### TOOL

SP/S & SD



Wear Eye Protection!

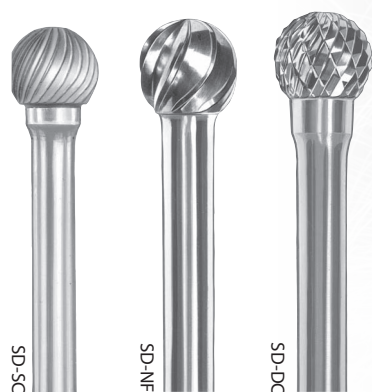


Wear Hearing Protection!



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





### Universal SD - Ball Shape

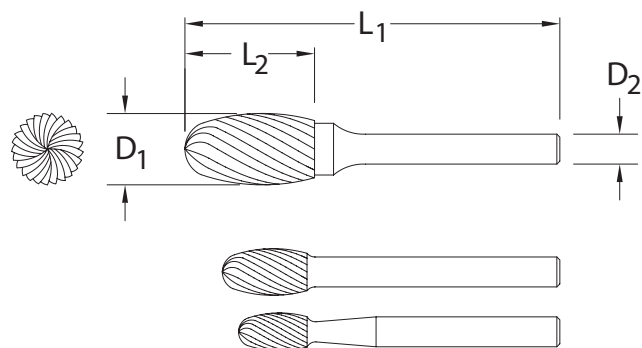
| Line            | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SD - Ball Shape | SD-42       | 1/8                 | 1 1/2             | 1/8               | 1/8              | 12803                     | 12800                     | -                    |
| SD - Ball Shape | SD-42L2     | 1/8                 | 2                 | 1/8               | 1/8              | 17553                     | 17550                     | -                    |
| SD - Ball Shape | SD-42L3     | 1/8                 | 3                 | 1/8               | 1/8              | 17578                     | 17575                     | -                    |
| SD - Ball Shape | SD-5        | 1/2                 | 2 1/5             | 1/4               | 7/16             | 12553                     | 12550                     | 19040                |
| SD - Ball Shape | SD-51       | 1/4                 | 1 3/4             | 1/8               | 7/32             | 12828                     | 12825                     | -                    |
| SD - Ball Shape | SD-52       | 5/32                | 1 1/2             | 1/8               | 5/32             | 12840                     | 12837                     | -                    |
| SD - Ball Shape | SD-53       | 3/16                | 1 1/2             | 1/8               | 5/32             | 12853                     | 12850                     | -                    |
| SD - Ball Shape | SD-5L6      | 1/2                 | 6 5/11            | 1/4               | 7/16             | 16453                     | 16450                     | -                    |
| SD - Ball Shape | SD-5NF      | 1/2                 | 2 1/5             | 1/4               | 7/16             | 19040                     | -                         | -                    |
| SD - Ball Shape | SD-61       | 3/32                | 1 1/4             | 3/32              | 3/32             | 12878                     | 12875                     | -                    |
| SD - Ball Shape | SD-7NF      | 3/4                 | 2 4/9             | 1/4               | 11/16            | 19044                     | -                         | -                    |
| SD - Ball Shape | SD-7NF3/8   | 3/4                 | 2 11/16           | 3/8               | 11/16            | 19046                     | -                         | -                    |
| SD - Ball Shape | SD-81       | 3/16                | 2                 | 3/16              | 5/32             | 12903                     | 12900                     | -                    |

### Universal SD - Long Shank

| Line            | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SD - Long Shank | SD-1L6      | 1/4                 | 6 2/9             | 1/4               | 7/32             | 16403                     | 16400                     | -                    |
| SD - Long Shank | SD-3L6      | 3/8                 | 6 1/3             | 1/4               | 5/16             | 16428                     | 16425                     | -                    |
| SD - Long Shank | SD-5L6      | 1/2                 | 6 4/9             | 1/4               | 7/16             | 16453                     | 16450                     | -                    |

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## Universal SE - Oval Shape

| Line            | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SE - Oval Shape | *SE-6       | 5/8                 | 2 3/4             | 1/4               | 1                | 13028                     | 13025                     | 19052                |
| SE - Oval Shape | *SE-6NF     | 5/8                 | 2 3/4             | 1/4               | 1                | 19052                     |                           |                      |
| SE - Oval Shape | *SE-7       | 3/4                 | 2 3/4             | 1/4               | 1                | 13078                     | 13075                     | 19054                |
| SE - Oval Shape | SE-1        | 1/4                 | 2                 | 1/4               | 3/8              | 12953                     | 12950                     |                      |
| SE - Oval Shape | SE-11       | 3/16                | 2                 | 1/4               | 5/16             | 13128                     | 13125                     |                      |
| SE - Oval Shape | SE-1L6      | 1/4                 | 6 3/8             | 1/4               | 3/8              | 16478                     | 16475                     |                      |
| SE - Oval Shape | SE-3        | 3/8                 | 2 3/8             | 1/4               | 5/8              | 12978                     | 12975                     | 19048                |
| SE - Oval Shape | SE-3L6      | 3/8                 | 6 5/8             | 1/4               | 5/8              | 16503                     | 16500                     |                      |
| SE - Oval Shape | SE-3NF      | 3/8                 | 2 3/8             | 1/4               | 5/8              | 19048                     |                           |                      |
| SE - Oval Shape | SE-41       | 1/8                 | 1 1/2             | 1/8               | 7/32             | 13153                     | 13150                     |                      |
| SE - Oval Shape | SE-41L2     | 1/8                 | 2                 | 1/8               | 7/32             | 17603                     | 17600                     |                      |
| SE - Oval Shape | SE-41L3     | 1/8                 | 3                 | 1/8               | 7/32             | 17628                     | 17625                     |                      |
| SE - Oval Shape | SE-5        | 1/2                 | 2 5/8             | 1/4               | 7/8              | 13003                     | 13000                     | 19050                |
| SE - Oval Shape | SE-51       | 1/4                 | 1 8/9             | 1/8               | 3/8              | 13178                     | 13175                     |                      |
| SE - Oval Shape | SE-53       | 3/16                | 1 1/2             | 1/8               | 9/32             | 13203                     | 13200                     |                      |
| SE - Oval Shape | SE-5L6      | 1/2                 | 6 8/9             | 1/4               | 7/8              | 16528                     | 16525                     |                      |



## Recommended Air Tools

### FEATURES

Small diameter for finishing

### TOOL

SP/S & SD

## Ordering Information

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Wear Eye Protection!



Wear Hearing Protection!



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



### Universal SE - Oval Shape

| Line            | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SE - Oval Shape | SE-5NF      | 1/2                 | 2 5/8             | 1/4               | 7/8              | 19050                     |                           |                      |
| SE - Oval Shape | SE-61       | 3/32                | 1 1/4             | 3/32              | 1/8              | 13228                     | 13225                     |                      |
| SE - Oval Shape | SE-7NF      | 3/4                 | 2 3/4             | 1/4               | 1                | 19054                     |                           |                      |
| SE - Oval Shape | SE-7NF3/8   | 3/4                 | 2 3/4             | 3/8               | 1                | 19056                     |                           |                      |
| SE - Oval Shape | SE-81       | 3/16                | 2                 | 3/16              | 9/32             | 13253                     | 13250                     |                      |

### Universal SE - Long Shank

| Line            | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| SE - Long Shank | SE-1L6      | 1/4                 | 6 3/8             | 1/4               | 3/8              | 16478                     | 16475                     |                      |
| SE - Long Shank | SE-3L6      | 3/8                 | 6 5/8             | 1/4               | 5/8              | 16503                     | 16500                     |                      |
| SE - Long Shank | SE-5L6      | 1/2                 | 6 8/9             | 1/4               | 7/8              | 16528                     | 16525                     |                      |

## Features & Benefits - LONG SHANKS

### FEATURES

Extra length  
Hardened steel shank  
Many lengths available

### BENEFITS

Better access  
Stiff and reliable  
Suits all access applications



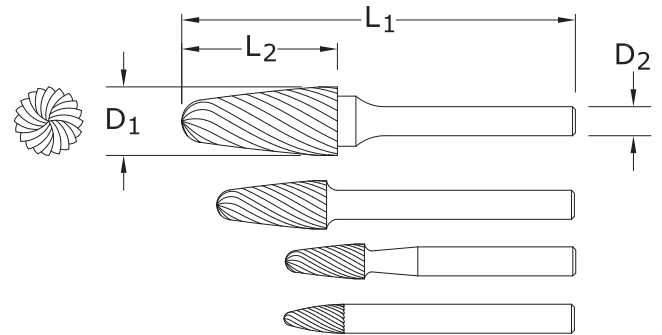
## Recommended Air Tools

### FEATURES

Access issue

### TOOL

All die-grinders



## Universal SF - Tree Shape

| Line           | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| F - Tree Shape | *SF-14      | 3/4                 | 3                 | 1/4               | 1 1/4            | 13578                     | 13575                     | 19066                |
| F - Tree Shape | *SF-15      | 3/4                 | 3 1/4             | 1/4               | 1 1/4            | 13628                     | 13625                     | 19068                |
| F - Tree Shape | *SF-6       | 5/8                 | 2 3/4             | 1/4               | 1                | 13403                     | 13400                     | 19064                |
| F - Tree Shape | *SF-6NF     | 5/8                 | 2 3/4             | 1/4               | 1                | 19064                     |                           |                      |
| F - Tree Shape | *SF-7       | 3/4                 | 2 3/4             | 1/4               | 1                | 13453                     | 13450                     |                      |
| F - Tree Shape | SF-1        | 1/4                 | 2                 | 1/4               | 5/8              | 13303                     | 13300                     | 19058                |
| F - Tree Shape | SF-11       | 1/8                 | 2 1/32            | 1/4               | 1/2              | 13503                     | 13500                     |                      |
| F - Tree Shape | SF-13       | 1/2                 | 2 1/2             | 1/4               | 3/4              | 13528                     | 13525                     |                      |
| F - Tree Shape | SF-14NF     | 3/4                 | 3                 | 1/4               | 1 1/4            | 19066                     |                           |                      |
| F - Tree Shape | SF-14NF3/8  | 3/4                 | 3 1/4             | 3/8               | 1 1/4            | 19068                     |                           |                      |
| F - Tree Shape | SF-1L6      | 1/4                 | 6 1/2             | 1/4               | 1/2              | 16553                     | 16550                     |                      |
| F - Tree Shape | SF-1NF      | 1/4                 | 2                 | 1/4               | 3/4              | 19058                     |                           |                      |
| F - Tree Shape | SF-3        | 3/8                 | 2 1/2             | 1/4               | 3/4              | 13328                     | 13325                     | 19060                |
| F - Tree Shape | SF-3L6      | 3/8                 | 6 3/4             | 1/4               | 3/4              | 16578                     | 16575                     |                      |
| F - Tree Shape | SF-3NF      | 3/8                 | 2 1/2             | 1/4               | 3/4              | 19060                     |                           |                      |
| F - Tree Shape | SF-4        | 7/16                | 2 3/4             | 1/4               | 1                | 13353                     | 13350                     |                      |
| F - Tree Shape | SF-41       | 1/8                 | 1 1/2             | 1/8               | 1/4              | 13678                     | 13675                     |                      |



## Recommended Air Tools

### FEATURES

Small diameter for finishing

### TOOL

SP/S & SD



Wear Eye Protection!



Wear Hearing Protection!



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



### Universal SF - Tree Shape

| Line           | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|----------------------|
| F - Tree Shape | SF-42       | 1/8                 | 1 1/2             | 1/8               | 1/2              | 13703                     | 13700                     |                      |
| F - Tree Shape | SF-42L2     | 1/8                 | 2                 | 1/8               | 1/2              | 17653                     | 17650                     |                      |
| F - Tree Shape | SF-42L3     | 1/8                 | 3                 | 1/8               | 1/2              | 17678                     | 17675                     |                      |
| F - Tree Shape | SF-5        | 1/2                 | 2 3/4             | 1/4               | 1                | 13378                     | 13375                     | 19062                |
| F - Tree Shape | SF-51       | 1/4                 | 2                 | 1/8               | 1/2              | 13728                     | 13725                     |                      |
| F - Tree Shape | SF-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 13753                     | 13750                     |                      |
| F - Tree Shape | SF-5L6      | 1/2                 | 7                 | 1/4               | 1                | 16603                     | 16600                     |                      |
| F - Tree Shape | SF-5NF      | 1/2                 | 2 3/4             | 1/4               | 1                | 19062                     |                           |                      |
| F - Tree Shape | SF-61       | 3/32                | 1 1/4             | 3/32              | 1/4              | 13778                     | 13775                     | 19056                |
| F - Tree Shape | SF-81       | 3/16                | 2                 | 3/16              | 1/2              | 13803                     | 13800                     |                      |

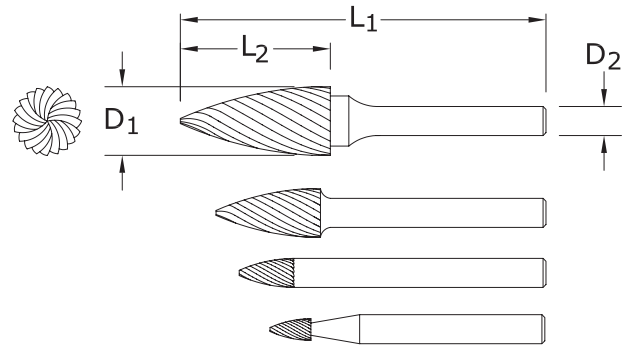
### Universal SF - Long Shank

| Line - Long Shank | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-------------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|
| F - Long Shank    | SF-1L6      | 1/4                 | 6 1/2             | 1/4               | 5/8              | 16553                     | 16550                     |
| F - Long Shank    | SF-3L6      | 3/8                 | 6 3/4             | 1/4               | 3/4              | 16578                     | 16575                     |
| F - Long Shank    | SF-5L6      | 1/2                 | 7                 | 1/4               | 1                | 16603                     | 16600                     |

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## Universal SG - Tree Shape Pointed End

| Line            | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|
| SG - Tree Shape | *SG-15      | 3/4                 | 3 1/4             | 1/4               | 1 1/2            | 14103                     | 14100                     |
| SG - Tree Shape | *SG-6       | 5/8                 | 2 3/4             | 1/4               | 1                | 13953                     | 13950                     |
| SG - Tree Shape | *SG-7       | 3/4                 | 2 3/4             | 1/4               | 1                | 14003                     | 14000                     |
| SG - Tree Shape | SG-1        | 1/4                 | 2                 | 1/4               | 5/8              | 13853                     | 13850                     |
| SG - Tree Shape | SG-13       | 1/2                 | 2 1/2             | 1/4               | 3/4              | 14053                     | 14050                     |
| SG - Tree Shape | SG-1L6      | 1/4                 | 6 1/2             | 1/4               | 1/2              | 16628                     | 16625                     |
| SG - Tree Shape | SG-2        | 5/16                | 2 1/2             | 1/4               | 3/4              | 13878                     | 13875                     |
| SG - Tree Shape | SG-3        | 3/8                 | 2 1/2             | 1/4               | 3/4              | 13903                     | 13900                     |
| SG - Tree Shape | SG-3L6      | 3/8                 | 6 3/4             | 1/4               | 3/4              | 16653                     | 16650                     |
| SG - Tree Shape | SG-41       | 1/8                 | 1 1/2             | 1/8               | 1/4              | 14153                     | 14150                     |
| SG - Tree Shape | SG-42       | 1/8                 | 1 1/2             | 1/8               | 5/16             | 14178                     | 14175                     |
| SG - Tree Shape | SG-43       | 1/8                 | 1 1/2             | 1/8               | 3/8              | 14203                     | 14200                     |
| SG - Tree Shape | SG-44       | 1/8                 | 1 1/2             | 1/8               | 1/2              | 14228                     | 14225                     |
| SG - Tree Shape | SG-44L2     | 1/8                 | 2                 | 1/8               | 1/2              | 17853                     | 17850                     |
| SG - Tree Shape | SG-44L3     | 1/8                 | 3                 | 1/8               | 1/2              | 17878                     | 17875                     |



## Recommended Air Tools

### FEATURES

Small diameter for finishing

### TOOL

SP/S & SD



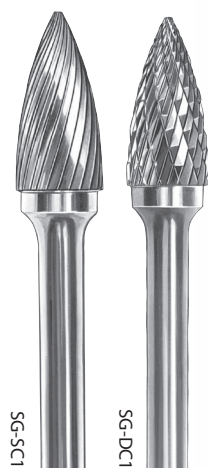
Wear Eye Protection!



Wear Hearing Protection!



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



### Universal SG - Tree Shape Pointed End

| Line            | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|
| SG - Tree Shape | SG-5        | 1/2                 | 2 3/4             | 1/4               | 1                | 13928                     | 13925                     |
| SG - Tree Shape | SG-51       | 1/4                 | 2                 | 1/8               | 1/2              | 14253                     | 14250                     |
| SG - Tree Shape | SG-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 14278                     | 14275                     |
| SG - Tree Shape | SG-5L6      | 1/2                 | 7                 | 1/4               | 1                | 16678                     | 16675                     |
| SG - Tree Shape | SG-61       | 3/32                | 1 1/4             | 3/32              | 1/4              | 14303                     | 14300                     |
| SG - Tree Shape | SG-81       | 3/16                | 2                 | 3/16              | 1/2              | 14328                     | 14325                     |

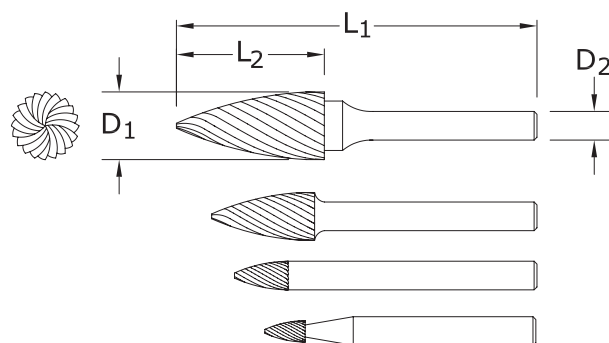
### Universal SG - Long Shank

| Line            | Description | Cutting Diameter D1 | Length of Cut I2 | Shank Diameter D2 | Overall Length I1 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-----------------|-------------|---------------------|------------------|-------------------|-------------------|---------------------------|---------------------------|
| SG - Long Shank | SG-1L6      | 1/4                 | 1/2              | 1/4               | 6 1/2             | 16628                     | 16625                     |
| SG - Long Shank | SG-3L6      | 3/8                 | 3/4              | 1/4               | 6 3/4             | 16653                     | 16650                     |
| SG - Long Shank | SG-5L6      | 1/2                 | 1                | 1/4               | 7                 | 16678                     | 16675                     |

## Ordering Information

For more information and / or to place an order, please contact  
ATA Customer Service on +3330-928-77-44 or by email [sales@atatools.com](mailto:sales@atatools.com).

# UNIVERSAL SH



## Universal SH - Flame Shape

| Line             | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|------------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|
| SH - Flame Shape | *SH-6       | 5/8                 | 3 1/5             | 1/4               | 1 7/16           | 14453                     | 14450                     |
| SH - Flame Shape | *SH-7       | 3/4                 | 3 3/8             | 1/4               | 1 5/8            | 14503                     | 14500                     |
| SH - Flame Shape | SH-1        | 1/4                 | 2                 | 1/4               | 5/8              | 14378                     | 14375                     |
| SH - Flame Shape | SH-2        | 5/16                | 2 1/2             | 1/4               | 3/4              | 14403                     | 14400                     |
| SH - Flame Shape | SH-2L6      | 5/16                | 6 3/4             | 1/4               | 3/4              | 16703                     | 16700                     |
| SH - Flame Shape | SH-41       | 1/8                 | 1 1/2             | 1/8               | 1/4              | 14553                     | 14550                     |
| SH - Flame Shape | SH-41L2     | 1/8                 | 2                 | 1/8               | 1/4              | 17903                     | 17900                     |
| SH - Flame Shape | SH-41L3     | 1/8                 | 3                 | 1/8               | 1/4              | 17928                     | 17925                     |
| SH - Flame Shape | SH-5        | 1/2                 | 3                 | 1/4               | 1 1/4            | 14428                     | 14425                     |
| SH - Flame Shape | SH-53       | 3/16                | 1 1/2             | 1/8               | 3/8              | 14603                     | 14600                     |
| SH - Flame Shape | SH-5L6      | 1/2                 | 7 1/4             | 1/4               | 1 1/4            | 16728                     | 16725                     |

## Universal SH - Long Shank

| Line - Long Shank | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-------------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|
| SH - Long Shank   | SH-2L6      | 5/16                | 6 3/4             | 1/4               | 3/4              | 16703                     | 16700                     |
| SH - Long Shank   | SH-5L6      | 1/2                 | 7 1/4             | 1/4               | 1 1/4            | 16728                     | 16725                     |



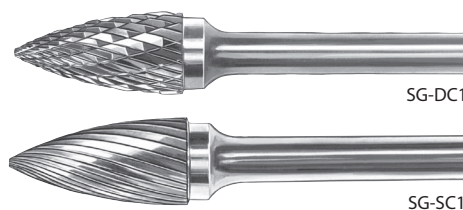
## Recommended Air Tools

### FEATURES

Small diameter for finishing

### TOOL

SP/S & SD



Wear Eye Protection!

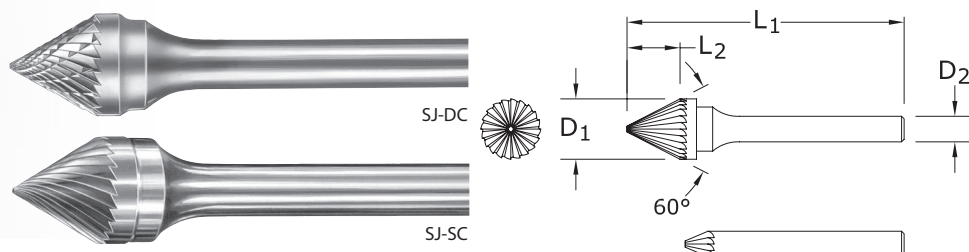


Wear Hearing Protection!



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

## UNIVERSAL SJ



### Universal SJ - Cone Shape

| Line - Cone Shape | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-------------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|
| SJ - 60°          | *SJ-6       | 5/8                 | 2 4/9             | 1/4               | 9/16             | 14753                     | 14750                     |
| SJ - 60°          | *SJ-7       | 3/4                 | 2 5/9             | 1/4               | 11/16            | 14803                     | 14800                     |
| SJ - 60°          | *SJ-9       | 1                   | 2 7/9             | 1/4               | 15/16            | 14853                     | 14850                     |
| SJ - 60°          | SJ-1        | 1/4                 | 2                 | 1/4               | 3/16             | 14678                     | 14675                     |
| SJ - 60°          | SJ-3        | 3/8                 | 2 1/5             | 1/4               | 5/16             | 14703                     | 14700                     |
| SJ - 60°          | SJ-42       | 1/8                 | 1 1/2             | 1/8               | 3/32             | 14903                     | 14900                     |
| SJ - 60°          | SJ-5        | 1/2                 | 2 1/3             | 1/4               | 7/16             | 14728                     | 14725                     |

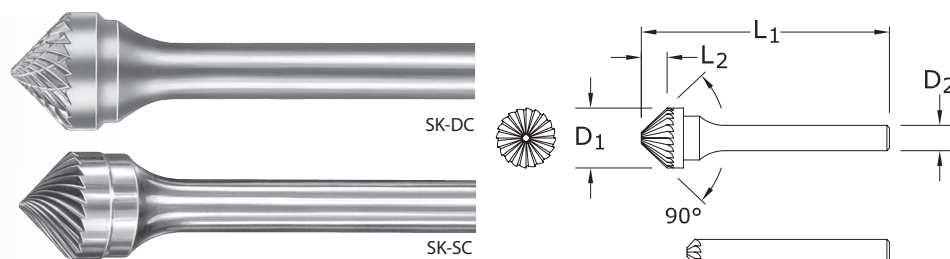


## Recommended Air Tools

**FEATURES**  
Access issue

**TOOL**  
All die-grinders

## UNIVERSAL SK



### Universal SK - Cone Shape

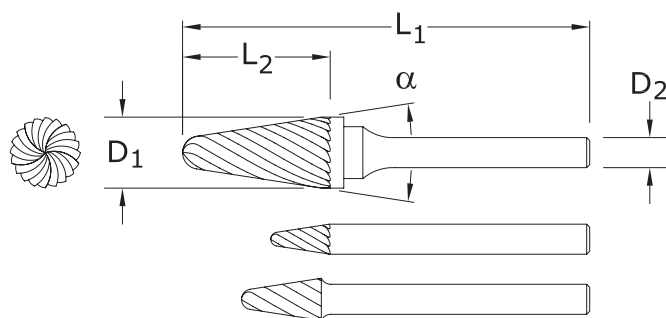
| Line - Cone Shape | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-------------------|-------------|---------------------|-------------------|-------------------|------------------|---------------------------|---------------------------|
| SK - 90°          | *SK-6       | 5/8                 | 2 1/4             | 1/4               | 5/16             | 15003                     | 15000                     |
| SK - 90°          | *SK-7       | 3/4                 | 2 1/3             | 1/4               | 3/8              | 15053                     | 15050                     |
| SK - 90°          | *SK-9       | 1                   | 2 3/8             | 1/4               | 1/2              | 15103                     | 15100                     |
| SK - 90°          | SK-1        | 1/4                 | 2                 | 1/4               | 1/8              | 14928                     | 14925                     |
| SK - 90°          | SK-3        | 3/8                 | 2 1/16            | 1/4               | 3/16             | 14953                     | 14950                     |
| SK - 90°          | SK-42       | 1/8                 | 1 1/2             | 1/8               | 1/16             | 15153                     | 15150                     |
| SK - 90°          | SK-5        | 1/2                 | 2 1/9             | 1/4               | 1/4              | 14978                     | 14975                     |



## Recommended Air Tools

**FEATURES**  
Access issue

**TOOL**  
All die-grinders



## Universal SL - Radius End Taper Shape

| Line             | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Angle | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|------------------|-------------|---------------------|-------------------|-------------------|------------------|-------|---------------------------|---------------------------|----------------------|
| SL - Taper Shape | *SL-5       | 5/8                 | 3 1/16            | 1/4               | 1 3/16           | 14°   | 15278                     | 15275                     | 19074                |
| SL - Taper Shape | *SL-5NF     | 5/8                 | 3 1/16            | 1/4               | 1 3/16           | 14°   | 19074                     |                           |                      |
| SL - Taper Shape | *SL-6       | 5/8                 | 3 1/5             | 1/4               | 1 5/16           | 14°   | 15303                     | 15300                     | 19076                |
| SL - Taper Shape | *SL-6NF     | 5/8                 | 3 1/5             | 1/4               | 1 5/16           | 14°   | 19076                     |                           |                      |
| SL - Taper Shape | *SL-7       | 3/4                 | 3 3/8             | 1/4               | 1 1/2            | 14°   | 15353                     | 15350                     | 19078                |
| SL - Taper Shape | SL-1        | 1/4                 | 2                 | 1/4               | 5/8              | 14°   | 15178                     | 15175                     |                      |
| SL - Taper Shape | SL-1L6      | 1/4                 | 6 3/4             | 1/4               | 5/8              | 14°   | 16753                     | 16750                     |                      |
| SL - Taper Shape | SL-2        | 5/16                | 2 3/4             | 1/4               | 7/8              | 14°   | 15203                     | 15200                     |                      |
| SL - Taper Shape | SL-3        | 3/8                 | 2 15/16           | 1/4               | 1 1/16           | 14°   | 15228                     | 15225                     | 19070                |
| SL - Taper Shape | SL-3L6      | 3/8                 | 7 2/9             | 1/4               | 1 1/16           | 14°   | 16778                     | 16775                     |                      |
| SL - Taper Shape | SL-3NF      | 3/8                 | 2 15/16           | 1/4               | 1 1/16           | 14°   | 19070                     |                           |                      |
| SL - Taper Shape | SL-4        | 1/2                 | 3                 | 1/4               | 1 1/8            | 14°   | 15253                     | 15250                     | 19072                |
| SL - Taper Shape | SL-41       | 1/8                 | 1 1/2             | 1/8               | 3/8              | 8°    | 15403                     | 15400                     |                      |
| SL - Taper Shape | SL-42       | 1/8                 | 1 1/2             | 1/8               | 1/2              | 8°    | 15428                     | 15425                     |                      |
| SL - Taper Shape | SL-42L2     | 1/8                 | 2                 | 1/8               | 1/2              | 8°    | 17953                     | 17950                     |                      |
| SL - Taper Shape | SL-42L3     | 1/8                 | 3                 | 1/8               | 1/2              | 8°    | 17978                     | 17975                     |                      |



## Recommended Air Tools

### FEATURES

Small diameter for finishing

### TOOL

SP/S & SD



Wear Eye Protection!



Wear Hearing Protection!



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





### Universal SL - Taper Shape

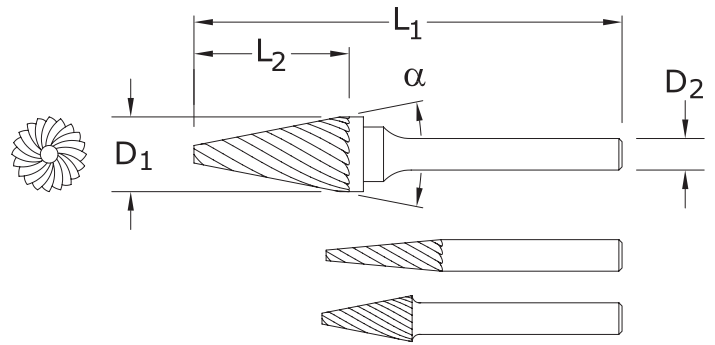
| Line             | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Angle | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|------------------|-------------|---------------------|-------------------|-------------------|------------------|-------|---------------------------|---------------------------|----------------------|
| SL - Taper Shape | SL-4L6      | 1/2                 | 7 3/11            | 1/4               | 1 1/8            | 14°   | 16803                     | 16800                     |                      |
| SL - Taper Shape | SL-4NF      | 1/2                 | 3                 | 1 4               | 1 1/8            | 14°   | 19072                     |                           |                      |
| SL - Taper Shape | SL-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 14°   | 15453                     | 15450                     |                      |
| SL - Taper Shape | SL-7NF      | 3/4                 | 3 3/8             | 1/4               | 1 1/2            | 14°   | 19078                     |                           |                      |
| SL - Taper Shape | SL-7NF3/8   | 3/4                 | 3 5/8             | 3/8               | 1 1/2            | 14°   | 19080                     |                           |                      |
| SL - Taper Shape | SL-81       | 3/16                | 2                 | 3/16              | 7/16             | 14°   | 15478                     | 15475                     |                      |

### Universal SL - Long Shank

| Line - Long Shank | Description | Cutting Diameter D1 | Overall Length I1 | Shank Diameter D2 | Length of Cut I2 | Angle | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|-------------------|-------------|---------------------|-------------------|-------------------|------------------|-------|---------------------------|---------------------------|----------------------|
| SL - Long Shank   | SL-1L6      | 1/4                 | 6 3/4             | 1/4               | 5/8              | 14°   | 16753                     | 16750                     |                      |
| SL - Long Shank   | SL-3L6      | 3/8                 | 7 2/9             | 1/4               | 1 1/16           | 14°   | 16778                     | 16775                     |                      |
| SL - Long Shank   | SL-4L6      | 1/2                 | 7 3/11            | 1/4               | 1 1/8            | 14°   | 16803                     | 16800                     |                      |

## Ordering Information

For more information and / or to place an order, please contact  
ATA Customer Service on +3330-928-77-44 or by email [sales@atatools.com](mailto:sales@atatools.com).



## Universal SM - Cone Shape

| SLine           | Description | Cutting Diameter D1 | Overall Length l1 | Shank Diameter D2 | Length of Cut l2 | Angle | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. | Alu Cut (NF) EDP No. |
|-----------------|-------------|---------------------|-------------------|-------------------|------------------|-------|---------------------------|---------------------------|----------------------|
| SM - Cone Shape | *SM-6       | 5/8                 | 2 8/9             | 1/4               | 1                | 31°   | 15628                     | 15625                     | -                    |
| SM - Cone Shape | SM-1        | 1/4                 | 2                 | 1/4               | 1/2              | 22°   | 15503                     | 15500                     | -                    |
| SM - Cone Shape | SM-2        | 1/4                 | 2                 | 1/4               | 3/4              | 14°   | 15528                     | 15525                     | -                    |
| SM - Cone Shape | SM-3        | 1/4                 | 2                 | 1/4               | 1                | 10°   | 15553                     | 15550                     | -                    |
| SM - Cone Shape | SM-4        | 3/8                 | 2 1/2             | 1/4               | 5/8              | 28°   | 15578                     | 15575                     | -                    |
| SM - Cone Shape | SM-41       | 1/8                 | 1 1/2             | 1/8               | 11/32            | 12°   | 15678                     | 15675                     | -                    |
| SM - Cone Shape | SM-42       | 1/8                 | 1 1/2             | 1/8               | 7/16             | 14°   | 15703                     | 15700                     | -                    |
| SM - Cone Shape | SM-42L2     | 1/8                 | 2                 | 1/8               | 7/16             | 14°   | 18053                     | 18050                     | -                    |
| SM - Cone Shape | SM-42L3     | 1/8                 | 3                 | 1/8               | 7/16             | 14°   | 18078                     | 18075                     | -                    |
| SM - Cone Shape | SM-43       | 1/8                 | 1 1/2             | 1/8               | 5/8              | 7°    | 15728                     | 15725                     | -                    |
| SM - Cone Shape | SM-5        | 1/2                 | 2 3/4             | 1/4               | 7/8              | 28°   | 15603                     | 15600                     | -                    |
| SM - Cone Shape | SM-51       | 1/4                 | 2 1/9             | 1/8               | 1/2              | 22°   | 15753                     | 15750                     | -                    |
| SM - Cone Shape | SM-53       | 3/16                | 1 1/2             | 1/8               | 1/2              | 16°   | 15778                     | 15775                     | -                    |
| SM - Cone Shape | SM-61       | 3/32                | 1 1/4             | 3/32              | 1/4              | 10°   | 15803                     | 15800                     | 19080                |



## Recommended Air Tools

### FEATURES

Small diameter for finishing

### TOOL

SP/S & SD



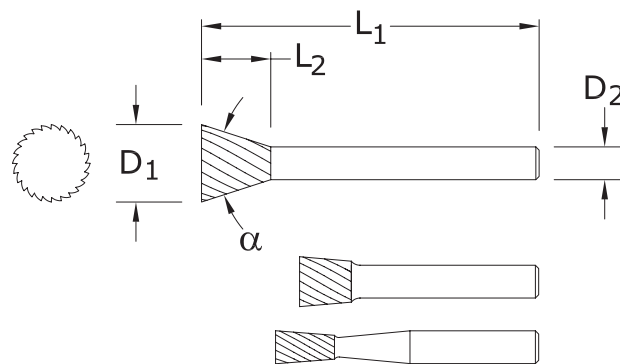
Wear Eye Protection!



Wear Hearing Protection!



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



## Universal SN - Cone Shape Inverted

| Line - Cone Shape | Description | Cutting Diameter D1 | Overall Length L1 | Shank Diameter D2 | Length of Cut L2 | Angle | Double Cut (DC 6) EDP No. | Single Cut (SC 3) EDP No. |
|-------------------|-------------|---------------------|-------------------|-------------------|------------------|-------|---------------------------|---------------------------|
| SN - Inverted     | *SN-6       | 5/8                 | 2 1/2             | 1/4               | 3/4              | 18°   | 15928                     | 15925                     |
| SN - Inverted     | *SN-7       | 3/4                 | 2 3/8             | 1/4               | 5/8              | 30°   | 15978                     | 15975                     |
| SN - Inverted     | SN-1        | 1/4                 | 2                 | 1/4               | 5/16             | 10°   | 15853                     | 15850                     |
| SN - Inverted     | SN-2        | 3/8                 | 2 1/9             | 1/4               | 3/8              | 13°   | 15878                     | 15875                     |
| SN - Inverted     | SN-4        | 1/2                 | 2 1/4             | 1/4               | 1/2              | 28°   | 15903                     | 15900                     |
| SN - Inverted     | SN-41       | 3/32                | 1 1/2             | 1/8               | 1/8              | 10°   | 16028                     | 16025                     |
| SN - Inverted     | SN-42       | 1/8                 | 1 1/2             | 1/8               | 3/16             | 10°   | 16053                     | 16050                     |
| SN - Inverted     | SN-51       | 1/4                 | 1 3/4             | 1/8               | 1/4              | 10°   | 16078                     | 16075                     |
| SN - Inverted     | SN-53       | 3/16                | 1 1/2             | 1/8               | 1/4              | 10°   | 16103                     | 16100                     |
| SN - Inverted     | SN-61       | 3/32                | 1 1/4             | 3/32              | 1/8              | 10°   | 16128                     | 16125                     |
| SN - Inverted     | SN-81       | 3/16                | 2                 | 3/16              | 1/4              | 10°   | 16153                     | 16150                     |



## Recommended Air Tools

### FEATURES

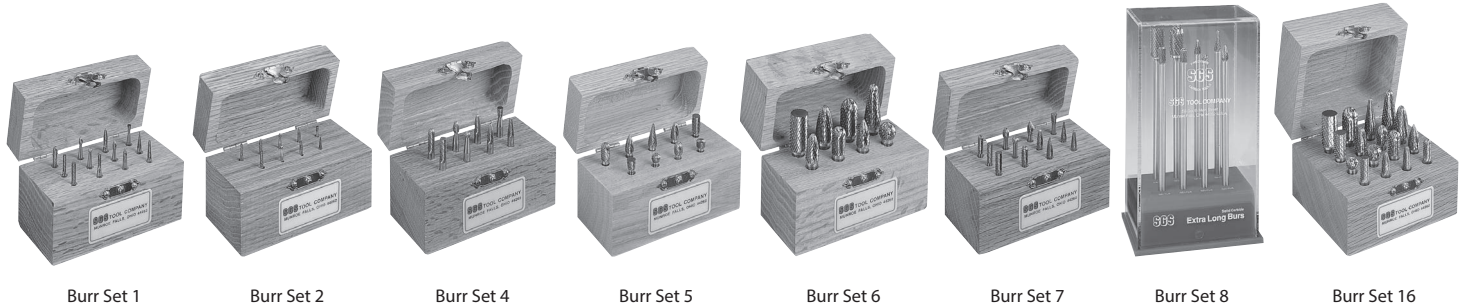
Small diameter for finishing

### TOOL

SP/S & SD



## UNIVERSAL Sets



### Universal Sets

| Line     | Description               | Contents                                                                | Shank Diameter D2 | Double Cut (DC 6) EDP No. |
|----------|---------------------------|-------------------------------------------------------------------------|-------------------|---------------------------|
| Bur Sets | BUR SET #1                | SA42/SA43/SC41/SC42/SD42/SE41/SF42/SG43/SH41/SL42/SM42/SN42             | 1/8               | 18200                     |
| Bur Sets | BUR SET #1 D/C            | SA42/SA43/SC41/SC42/SD42/SE41/SF42/SG43/SH41/SL42/SM42/SN42             | 1/8               | 18201                     |
| Bur Sets | BUR SET #16               | SA1/SA3/SA5/SC1/SC3/SC5/SD3/SD5/SE3/SF1/SF3/SF5/SG1/SG3/SL3/SL4         | 1/4               | 18216                     |
| Bur Sets | BUR SET #16 D/C           | SA1/SA3/SA5/SC1/SC3/SC5/SD3/SD5/SE3/SF1/SF3/SF5/SG1/SG3/SL3/SL4         | 1/4               | 18217                     |
| Bur Sets | BUR SET #2                | SA61/SA63/SC61/SD61/SE61/SF61/SG61/SM61/SN61                            | 3/32              | 18202                     |
| Bur Sets | BUR SET #2 D/C            | SA61/SA63/SC61/SD61/SE61/SF61/SG61/SM61/SN61                            | 3/32              | 18203                     |
| Bur Sets | BUR SET #4                | SA81/SC81/SD81/SE81/SF81/SG81/SL81/SN81                                 | 3/16              | 18206                     |
| Bur Sets | BUR SET #4 D/C            | SA81/SC81/SD81/SE81/SF81/SG81/SL81/SN81                                 | 3/16              | 18207                     |
| Bur Sets | BUR SET #6                | SA5/SC3/SC5/SD5/SF3/SF5/SG3/SL4                                         | 1/4               | 18210                     |
| Bur Sets | BUR SET #6 D/C            | SA5/SC3/SC5/SD5/SF3/SF5/SG3/SL4                                         | 1/4               | 18211                     |
| Bur Sets | BUR SET #7                | SA52/SA53/SC52/SC53/SD53/SE53/SF53/SG53/SH53/SL53/SM53/SN53             | 1/8               | 18212                     |
| Bur Sets | BUR SET #7 D/C            | SA52/SA53/SC52/SC53/SD53/SE53/SF53/SG53/SH53/SL53/SM53/SN53             | 1/8               | 18213                     |
| Bur Sets | BUR SET EXTRA LONG #8     | SA1L6/SA5L6/SC1L6/SC5L6/SD1L6/SF1L6/SG1L6/SL1L6                         | 1/4               | 18214                     |
| Bur Sets | BUR SET EXTRA LONG #8 D/C | SA1L6/SA5L6/SC1L6/SC5L6/SD1L6/SF1L6/SG1L6/SL1L6                         | 1/4               | 18215                     |
| Bur Sets | MINIATURE BUR SET #5      | SA51/SB51/SC51/SD51/SE51/SF51/SG51/SM51/SN51                            | 1/8               | 18208                     |
| Bur Sets | MINIATURE BUR SET #5 D/C  | SA51/SB51/SC51/SD51/SE51/SF51/SG51/SM51/SN51                            | 1/8               | 18209                     |
| Bur Sets | BUR SET #1M               | SA42M/SA43M/SC41M/SC42M/SD42M/SE41M/SF42M/SG43M/SH41M/SL42M/SM42M/SN42M | 3mm               | 28200                     |
| Bur Sets | BUR SET #1M D/C           | SA42M/SA43M/SC41M/SC42M/SD42M/SE41M/SF42M/SG43M/SH41M/SL42M/SM42M/SN42M | 3mm               | 28201                     |
| Bur Sets | BUR SET #6M               | SA5M/SC3M/SC5M/SD5M/SF3M/SF5M/SG3M/SL4M                                 | 6mm               | 28210                     |
| Bur Sets | BUR SET #6M D/C           | SA5M/SC3M/SC5M/SD5M/SF3M/SF5M/SG3M/SL4M                                 | 6mm               | 28211                     |
| Bur Sets | BUR SET #8M               | SA1ML6/SA5ML6/SC1ML6/SC5ML6/SD1ML6/SF1ML6/SG1ML6/SL1ML6                 | 6mm               | 28214                     |
| Bur Sets | BUR SET #8M D/C           | SA1ML6/SA5ML6/SC1ML6/SC5ML6/SD1ML6/SF1ML6/SG1ML6/SL1ML6                 | 6mm               | 28215                     |



Wear Eye Protection!



Wear Hearing Protection!



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



- The use of eye, face, and ear protection is strongly recommended.
- Burs with shanks longer than 1-3/4 (inch) should be used at 50% of the normal speed.
- Extended shank burs are only recommended for use in well maintained handheld grinders.
- Stabilize extended shank burs by lightly contacting the workpiece prior to starting the grinder.
- Blue discoloring of steel shanks indicates excessive heat due to overuse. Continued use could cause injury.

# SAFETY

## INSTRUCTIONS





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