



**SHAVIV**

Leading Deburring Solutions

**vargus**  
NEUMO Ehrenberg Group

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

# COMPANY PROFILE

**VARGUS** is a world leading developer, manufacturer, and supplier of high-quality, precision threading, grooving, turning and hand deburring tools and has been at the forefront of the tooling industry for more than **60 years**.



Established in 1960, **VARGUS** is the cutting tools division of the **NEUMO Ehrenberg Group**, a multinational organization headquartered in Germany.

**The NEUMO Ehrenberg Group** is one of Europe's largest privately owned manufacturers and distributors of industrial stainless steel products, stainless steel flow equipment and metal cutting tools. A customer-focused organization, **VARGUS Ltd.** is committed to providing products and solutions of the highest quality and excellent value, and is renowned for its technical expertise and uncompromising service.



### The company's major product lines are:

#### **VARDEX**

for Thread Turning, Thread Milling, Tapping, Whirling & Gear Milling solutions.

#### **GROOVEX**

provides a wide range of internal and external grooving, parting off, boring and turning applications.

#### **SHAVIV**

is a world leader in hand-deburring solutions for a wide range of materials, and now includes the SV-BURR line of premium carbide burrs.

## SHAVIV

## SV-Burr

Premium Carbide Burrs



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SHAVIV GENIus



### 09 Blades



### 21 Blade Holders



### 25 Handles



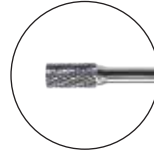
### 29 Sets

Long-Reach  
Extra-Close  
Ceramic Tools  
TiN Coated Sets  
Bonus Packs  
Compact Sets  
Pipe Cleaners

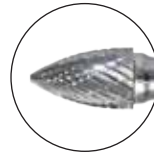


### 51 Kits

Premium Kits  
Multi-Purpose Kits  
Professional Series  
Specialized Kits



### 61 Features & Benefits



### 62 Geometries & Applications

Ordering Code System

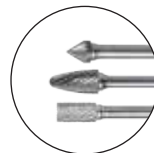


### 63 Recommendations & Applications

Speed Range  
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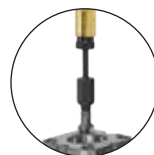
### 64 Speed Guide



### 65 SV-Burr Tools



### 77 Troubleshooting



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Since 1960, **SHAVIV** hand deburring ergonomic tools have been offering the widest range of easy to use solutions to customers across several sectors including Hand Tools, DIY, Abrasives, Metal Cutting Tools, etc...

**SHAVIV** tools are renowned for providing "the finishing touch" in applications such as hole edges, straight edges, flat surfaces, keyways and corners.

Hand deburring allows for greater flexibility and effectively deburrs areas that may be difficult for machines to access, offering valuable and cost-effective solutions to production.



**SHAVIV**, the global leader in hand deburring solutions, is proud to introduce the new **SV Burr line** of premium tungsten carbide burrs. **The SV Burr line** provides up to three times greater strength over high-speed steel burrs along with vastly improved performance for extreme deburring applications and excel at maintaining a sharp edge even under heavy loads and high temperatures.

**The SV Burr line** features over a dozen distinct geometric designs to handle any deburring application. Options include cylindrical, radius, ball, oval, inverted cone, tree, flame, cone, and radius cone shapes among others.

**SHAVIV** blades & chamfers are available in a variety of types of materials – HSS, cobalt enriched, carbide, and diamond coated – as well as a choice of blades for left-handed users. This vast selection also contains cost-effective TiN (titanium nitride) coated blades, which offer up to five times the life of standard, non-coated blades.

**SHAVIV** tools are available as individual components, combination sets and complete kits based on application, profession, and materials.

Each geometry provides an optimized cutting shape for different materials and use cases.

Typical applications for **the SV Burr** premium carbide burrs include metal working, tool and die making, jewelry, engineering, deburring, grinding, welding, wood carving, casting, sculpting, and cylinder head porting. They are designed for both manual use as well as CNC machining operations.

**The SV Burr line** meets the needs of customers working with difficult-to-machine materials like stainless steel, steel alloys, and cast iron.

For more information, see page 61.

# Advantages of Hand Deburring

**01**  
Solutions for a wide range of applications

**02**  
Accurate

**03**  
Safe

**04**  
Cost effective

**05**  
No set-up time

**06**  
Monitored quality control

**07**  
Simple and professional

# APPLICATIONS GUIDE

Hand deburring enables greater flexibility with varying geometries and surfaces which can be used on a wide range of materials. Whether the application you need to perform is internal or external, straight or round edges and components, flat surfaces, or thick or thin walls, large or small holes, there's a **SHAVIV** tool to get the job done.

See the Blade Index to identify your application and workpiece material to find the most suitable blade for your deburring project.

Refer to the user-friendly **SHAVIV GENius** to find the best and most appropriate **SHAVIV** tool set to complete the task in just a few simple steps.

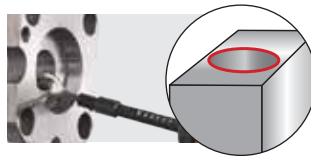
## Straight Edge

For Sets: [B](#), [C](#), [E](#), [HC](#), [M](#), [1](#), [Burr-Bi](#)



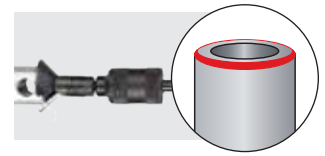
## Hole Edge

For Sets: [B](#), [C](#), [E](#), [F](#), [FR](#), [HC](#), [M](#), [U](#), [1](#), [Rotoburr](#)



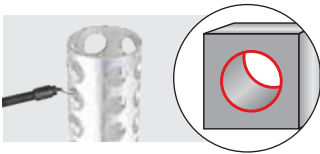
## Outer Edge

For Sets: [Burr-Ex](#), [L](#)



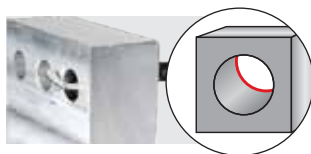
## Cross-Hole Both Edge

For Sets: [E](#), [M](#), [1](#)



## Hole Back-Edge

For Sets: [E](#), [HC](#), [U](#)



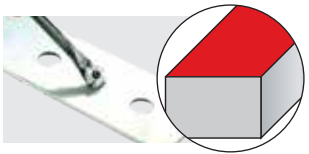
## Hole Inner Surface

For Sets: [C](#), [HC](#), [U](#)



## Flat Surface

For Sets: [C](#), [D](#), [HC](#), [U](#)



## Sheets

For Sets: [D](#), [Burr-Bi](#)



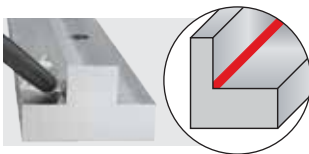
## Slot / Keyways

For Set: [G](#)



## Inner Straight Corners

For Set: [G3](#)



## Inner Edge

[Plum-Burr](#)



## Mold Gate Trim

[Cera-Burr](#)



# INDUSTRIES AND MATERIALS

SHAVIV hand deburring tools are widely used and extremely useful across various industrial sectors.



Metal



Electrical



Plastic



Automotive



Die & Mold



Plumbing



Aviation

They can be used on a wide range of materials including metals, plastics, and composites, allowing versatile solutions for industries and production.



Metal



Copper



Aluminum



Cast iron



Plastics



Wood

## SHAVIV GENiUS™

### Hand Deburring Made Even Easier World's 1<sup>st</sup> Hand Deburring Tool Selector

The **SHAVIV GENiUS™** web app lets the user easily navigate and choose the correct hand deburring solution based on the application and material required.



[www.shaviv-genius.com](http://www.shaviv-genius.com)

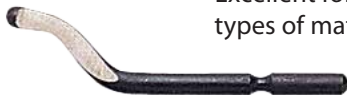




# BLADES

## HSS

Excellent for most types of materials



## COBALT (s)

Best for stainless steel  
5% Cobalt enriched for longer life



## CARBIDE (c)

Best for hardened steel and cast iron



## TiN COATED (P)

Titanium Nitride significantly increases HSS blade life



## DIAMOND (D)

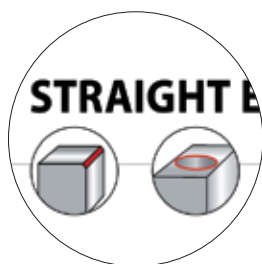
For glass and carbide work pieces



# FINDING THE RIGHT BLADE

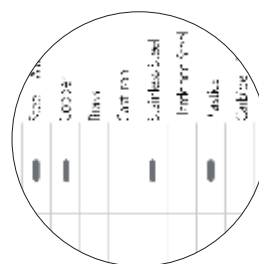
### STEP 01

Choose Your Application



### STEP 02

Find Your Workpiece Material



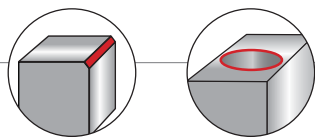
### STEP 03

Select The Best Blade For Your Job\*



\* Blade work directions shown according to arrows: ↻ ↺ ↻ ← → ↔

# STRAIGHT EDGE | HOLE EDGE (B, E)

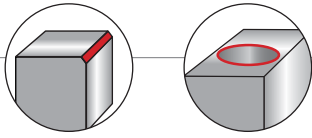


Blade	Item No.	Description	Actual Size	Material												
				Steel	Aluminium	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide   Glass	Wood			
B1 	151-29215	Tough, long-life cobalt blade. N1 geometry.		■	■					■	■					
B-N1 	151-29207	HSS. N1 geometry		■	■							■				
B10 	151-29212	HSS. Deburs materials with spiral chips. Bulk pack available.		■	■								■			
B10C 	151-29013	Solid carbide. B10 geometry.		■	■							■	■			
B10D 	151-29014	Diamond-coated. B10 geometry.													■	
B10L 	151-29095	B10 for left-handed users.		■	■								■			
B10P 	151-29015	PVD TiN coated for high wear resistance. B10 geometry.		■	■							■	■			
B10PL 	151-29096	B10 coated with PVD TiN. For left-handed users.		■	■							■	■			
B10S 	151-29210	Long-lasting, cobalt-enriched. B10 geometry.		■	■							■	■			
B11 	151-29108	Extra thin, HSS. Deburs holes with min. diameter 2mm (.08").		■	■								■			
B11P 	151-00120	PVD TiN coated for high wear resistance. B11 geometry.		■	■							■	■			
B12 	151-29016	Short-nosed, HSS.		■	■								■			
B12P 	151-19017	Short-nosed, PVD TiN coated for high wear resistance.		■	■							■	■			

GROUP

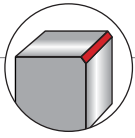
Blade	Item No.	Description	Actual Size	Material											
				Steel	Aluminum	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide   Glass	Wood		
B20 	151-19019	HSS. Rotates clockwise & counterclockwise.					■	■							
B20C 	151-19020	Solid carbide. Rotates clockwise & counterclockwise.					■	■	■						■
B20P 	151-29021	PVD TiN coated for high wear resistance. Rotates clockwise & counterclockwise.					■	■	■						■
B25 	151-29022	Thin-nosed. Specially designed for plastics.		■	■										
B25C 	151-29110	Solid carbide, thin-nosed. Specially designed for abrasive plastics.		■	■										
E100 	151-29034	Heavy-duty HSS. Deburs materials with spiral chips.		■	■										
E100C 	151-29035	Wear resistant carbide. E100 geometry.												■	■
E100D 	151-29036	Diamond-coated. E100 geometry.													■
E100L 	151-29098	E100 for left-handed users.		■	■										■
E100P 	151-29037	PVD TiN coated for high wear resistance. E100 geometry.		■											
E100PL 	151-00022	Coated for left-handed users.		■											
E100S 	151-29211	Long-lasting, cobalt-enriched. E100 geometry.		■	■										
E110 	151-29038	E shaft, B10 cutting edge for materials with spiral chips. Deburs holes with min. diameter 2 mm (.08").		■	■										

# STRAIGHT EDGE | HOLE EDGE (B, E)



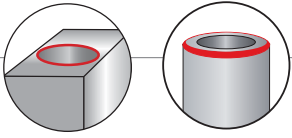
Blade	Item No.	Description	Actual Size	Material												
				Steel	Aluminium	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide   Glass	Wood			
E110P 	151-29039	PVD TiN coated for high wear resistance. E110 geometry.		■						■						
E111 	151-29109	Thin-nosed, HSS. Deburrs holes with min. diameter 1.5 mm (.06").		■		■									■	
E111P 	151-00099	PVD TiN coated for high wear resistance. E111 geometry.		■		■									■	
E120 	151-29058	E shaft, B20 cutting edge for materials with powdery chips. Rotates clockwise & counterclockwise.						■	■						■	
E200 	151-29040	HSS for materials with powdery chips. Rotates clockwise & counterclockwise.						■	■						■	■
E200P 	151-29099	PVD TiN coated for high wear resistance. E200 geometry.						■	■						■	■
E200S 	151-00107	Long lasting, cobalt enriched. E200 geometry.						■	■						■	■
E200C 	151-29041	Wear resistant carbide. E200 geometry.						■	■			■	■		■	■
E250 	151-29106	Specially designed for plastics. Very thin, heavy duty.		■		■									■	
E350 	151-29044	HSS for materials with powdery chips. Rotates clockwise & counterclockwise.						■	■						■	
E750 	151-29113	HSS specially designed for deburring rubber & soft plastics without poking or sticking into workpiece.													■	
E800 	151-29018	HSS for materials with spiral chips. Removes burrs from corner-edges of shallow steps.		■		■				■					■	
E10 	151-29216	Long-lasting, cobalt-enriched for materials with spiral chips. Ideal for heavy duty jobs.		■		■				■					■	
ES10 	151-29105	HSS durable blade. S10 geometry.		■		■									■	

# STRAIGHT EDGE (E, L, R, Q)



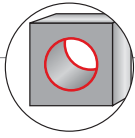
Blade	Item No.	Description	Actual Size	Material																	
				Steel	Aluminum	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide   Glass	Wood								
E755 ←	151-29085	HSS for deburring corner-edges of 1 mm (.04") high steps.		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
L10 ←	151-29063	HSS, 4 cutting edges. Removes burrs from external edges, OD 20 mm (.78") and up. "A" side deburrs materials with spiral chips; "B" side for powdery chips.		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
R10 ←	151-29141	Double-sided, round HSS blade. "A" side deburrs materials with spiral chips; "B" side for powdery chips.		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
R20 ←	151-29142	Double-edged, round HSS blade for massive deburring tasks on materials with spiral chips.		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
R30 ←	151-29143	Produces arc-shaped finish on materials up to 16 mm (.63") thick. Use a single R30 for one straight edge, or two blades at once to deburr both edges simultaneously.		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Q10 ↔	151-29236	Double-sided deburring ceramic blade.		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Q11 ↔	151-00132	Double-sided deburring. Curved ceramic blade for curved edges and small ridges.		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

# HOLE EDGE | OUTER EDGE (E, F, L)



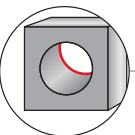
Blade	Item No.	Description	Actual Size	Material													
				Steel	Aluminium	Copper	Brass	Cast iron	Stainless Steel	Hardened Steel	Plastics	Carbide	Glass	Wood			
E707 ↻	151-29232	Contour Cleaner.		■	■	■	■	■	■	■	■						
F12 ↻	151-29049	Countersink for hole-edges with up to 12 mm (.47") diameter.		■	■	■	■	■	■	■	■	■					
F20 ↻	151-19050	Countersink for hole-edges with up to 20 mm (.78") diameter.		■	■	■	■	■	■	■	■	■					
F30 ↻	151-29051	Countersink for hole-edges with up to 30 mm (1.18") diameter.		■	■	■	■	■	■	■	■	■					
F12P ↻	151-00159	PVD TiN coated for high wear resistance. Countersink for hole-edges with up to 12 mm (.47") diameter.		■	■	■	■	■	■	■	■	■					
F20P ↻	151-00160	PVD TiN coated for high wear resistance. Countersink for hole-edges with up to 20 mm (.78") diameter.		■	■	■	■	■	■	■	■	■					
F30P ↻	151-29051	PVD TiN coated for high wear resistance. Countersink for hole-edges with up to 30 mm (1.18") diameter.		■	■	■	■	■	■	■	■	■					
F26X ↻	151-29147	Excellent for external chamfering of pipes, tubes and other items with up to 26 mm (1.02") diameter.		■	■	■	■	■	■	■	■	■					
L10 ↑	151-29063	HSS, 4 cutting edges. Removes burrs from external edges, OD 20 mm (.78") and up. "A" side deburrs materials with spiral chips; "B" side for powdery chips.	 A B	■	■	■	■	■	■	■	■	■	■	■	■	■	■

# CROSS-HOLE BOTH EDGES (B, E)



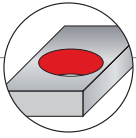
Blade	Item No.	Description	Actual Size	Material												
				Steel	Aluminium	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide	Glass	Wood		
B30 	151-29023	Simultaneously deburrs the inside and outside of holes up to 4 mm (.16") thick.		■	■	■	■	■	■	■	■	■	■	■	■	■
B30P 	151-29024	PVD TiN coated for high wear resistance. B30 geometry.		■	■	■	■	■	■	■	■	■	■	■	■	■
B32 	151-29025	Rotates clockwise & counterclockwise. B30 geometry.		■	■	■	■	■	■	■	■	■	■	■	■	■
E300 	151-29042	HSS for materials with spiral chips. Simultaneously deburrs the inside and outside of holes up to 6 mm (.24") thick.		■	■	■	■	■	■	■	■	■	■	■	■	■
E300P 	151-29227	PVD TiN coated for high wear resistance. E300 geometry.		■	■	■	■	■	■	■	■	■	■	■	■	■
E320 	151-29043	HSS for materials with powdery chips. Simultaneously deburrs the inside and outside of holes up to 6 mm (.24") thick. Rotates clockwise & counterclockwise.		■	■	■	■	■	■	■	■	■	■	■	■	■

# HOLE BACK-EDGE (B, E)



Blade	Item No.	Description	Actual Size	Material												
				Steel	Aluminium	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide	Glass	Wood		
B60 	151-29027	Standard HSS blade to remove burrs from back edge of holes up to 15 mm (.59") thick.		■	■	■	■	■	■	■	■	■	■	■	■	■
E600 	151-29045	Heavy duty HSS blade to remove burrs from back edge of holes up to 20 mm (.78") thick.		■	■	■	■	■	■	■	■	■	■	■	■	■
E601 	151-29046	Extra-long HSS. Removes burrs from back-edges of holes up to 40 mm (1.57") thick.		■	■	■	■	■	■	■	■	■	■	■	■	■
E604 	151-29231	Cross-hole, back-edge with short nose.		■	■	■	■	■	■	■	■	■	■	■	■	■

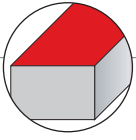
# HOLE INNER SURFACE (C, E, BUS)



Blade	Item No.	Description	Actual Size	Material								
				Steel	Aluminum	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide   Glass
C40 	151-29029	Small, 4 mm (.16"), triangular HSS scraper for precision work.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C42 	151-29030	Standard size, 8 mm (.31"), triangular HSS scraper.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C50 	151-29117	Double-sided, 7.8 mm (.30"), triangular scraper.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C60 	151-29118	Double-sided, 4.8 mm (.19"), triangular scraper.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E400 	151-29233	Mini triangular scraper.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E700 	151-29047	HSS for materials with spiral chips. Excellent for deburring & scraping inside thick-walled holes and cross-holes.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E720 	151-29048	HSS for materials with powdery chips. Excellent for deburring & scraping inside thick-walled holes and cross-holes. Rotates clockwise & counterclockwise.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BUS1 	151-29195	Fine-finishing triangular scraper.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

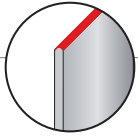


# FLAT SURFACE (B, C, D, E, Q, BUS)



Blade	Item No.	Description	Actual Size	Material																
				Steel	Aluminum	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide	Glass	Wood						
B50C 	151-29026	Carbide tipped scriber. Can be reground.																		
C40 	151-29029	Small, 4 mm (.16"), triangular HSS scraper for precision work.																		
C42 	151-29030	Standard size, 8 mm (.31"), triangular HSS scraper.																		
C50 	151-29117	Double-sided, 7.8 mm (.30"), triangular scraper.																		
C60 	151-29118	Double-sided, 4.8 mm (.19"), triangular scraper.																		
D80C 	151-29031	Solid carbide, 6 cutting edges. Scrapes surfaces and deburrs sheet metal up to 0.12" (3 mm) thick.																		
E400 	151-29233	Mini triangular scraper.																		
E500C 	151-29111	Carbide tipped scriber. Can be reground.																		
BUS1 	151-29195	Fine-finishing triangular scraper.																		
BUS2 	151-29196	Fine-finishing flat scraper.																		
BUS31 	151-29197	Fine-finishing round scraper.																		
BUS4 	151-29198	Fine-finishing hooked corner scraper.																		
Q10 	151-29236	Double-sided deburring ceramic blade.																		

# SHEETS (B, D, E, R)



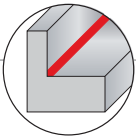
Blade	Item No.	Description	Actual Size	Material												
				Steel	Aluminum	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide	Glass	Wood		
B70 →	151-29028	Carbide tipped. Deburrs up to 3.5 mm (.14") thick.		■	■	■	■	■	■	■						
D80C ←	151-29031	Solid carbide, 6 cutting edges. Scrapes surfaces and deburrs sheet metal up to 3 mm (.12") thick.		■	■	■	■	■	■							■
D82C ↔	151-29032	Heavy-duty, double-edged carbide blade. Deburrs sheet metal up to 9 mm (.35") thick.		■	■	■	■	■	■	■						■
D85 ↔	151-29033	Tough HSS with chipbreaker and 6 cutting edges. Deburrs sheet metal up to 6 mm (.24") thick.		■	■	■										■
E450 ←	151-29234	Heavy duty HSS deburring blade for sheets. Suitable for deburring aluminum, steel and also plastics.		■	■	■	■	■	■							
E755 ←	151-29085	HSS for deburring corner-edges of 1 mm (.04") high steps.		■	■	■	■	■								
R10 ←	151-29141	Double-sided, round HSS blade. "A" side deburrs materials with spiral chips; "B" side for powdery chips.		■	■	■	■	■	■							■
R20 ←	151-29142	Double-edged, round HSS blade for massive deburring tasks on materials with spiral chips.		■	■											
R30 ←	151-29143	Produces arc-shaped finish on materials up to 16 mm (.63") thick. Use a single R30 for one straight edge, or two blades at once to deburr both edges simultaneously.														■

# SLOT, KEYWAYS (G)



Blade	Item No.	Description	Actual Size	Material												
				Steel	Aluminium	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide	Glass	Wood		
G10 ←	151-29052	HSS. Deburrs slots up to 15 mm (.6") wide.		■	■	■	■	■	■	■	■	■	■	■	■	■
G20 ←	151-29053	HSS, 4 cutting corners. For slots up to 10 mm (.4") wide.		■	■	■	■	■	■	■	■	■	■	■	■	■
G40C ←	151-29103	Carbide, 4 cutting corners. For slots up to 10 mm (.4") wide.		■	■	■	■	■	■	■	■	■	■	■	■	■

# INNER STRAIGHT CORNERS (G)



Blade	Item No.	Description	Actual Size	Material												
				Steel	Aluminium	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide	Glass	Wood		
G30C ←	151-29115	Solid carbide, 3 cutting corners. Cleans corners and removes radii after machining for smooth flush mating of adjoining faces.		■	■	■	■	■	■	■	■	■	■	■	■	■



# BLADE HOLDERS

## **Blade Holder B**

For all B blades

Item No. : 153-29000



## **Blade Holder E**

For all E blades

Item No. : 153-29004



## **Blade Holder M**

For both B- or E-series blades

Item No. : 153-29138



## **Blade Holder C**

For C40 & C42 blades

Item No. : 153-29001



## **Blade Holder D**

For D80C & D82C blades

Item No. : 153-29002



## **Blade Holder D5**

For D85 blade

Item No. : 153-29003



# BLADE HOLDERS

## Blade Holder F

For all F blades

Item No. : 153-29005



## Blade Holder FR

Ratchet holder for all F blades

Item No. : 153-29006



## Blade Holder Rotoburr

Holds all F blades

Item No. : 153-00036



## Blade Holder BURR-BI BR

Holds all R blades

Item No. : 153-29139



## Blade Holder U

For all BUS blades

Item No. : 153-29121



## Blade Holder L

For the L10 blade

Item No. : 153-29010



## Blade Holder G

Holds G10, G20 & G40C blades.

Item No. : 153-29007



## Blade Holder G3

Angled to offer easy access to work area. Holds G30C blades

Item No. : 153-29094



## Blade Holder G4

Angled to offer easy access to work area. Holds G10, G20 & G40C blades

Item No. : 153-29102



### 01

**Gives you a safe distance**  
between the operator and  
the material

### 02

**Simplified**  
Marked with letters according  
to blade type

### 03

**Easy to operate**  
Just pull down the sleeve on the  
handle and insert the blade  
to the desired length





# HANDLES

Assorted handles to provide the best grip for flexibility and precision

## Mango II Long-Reach

**The most recommended handle for comfort and control in deburring**

Mango II - Works with all SHAVIV blade holders.

Simple holder mechanism. Comfortable, ergonomic handle for standard-sized hands.

Item No. : 152-00019



## Mango II Extra-Close

**The most recommended handle for comfort and control in deburring**

Mango II B/E - Works with all B or E blades.

Permanent safety locks for simple blade replacement. Comfortable, ergonomic handle for standard-sized hands.

Mango II B Item No. : 152-00009

Mango II E Item No. : 152-00016



## Mango Click Extra-Close

**Mango Click E**

Mango Click - Deburring has never been so easy!

Works with all E blades. Easy-to-use, comfortable and durable. Best suited for larger-sized hands.

Item No. : 152-00013



# HANDLES

## Classic Handle

The classic universal handle. Accepts all Shaviv blade holders.  
To store spare blades inside handle, simply unscrew the back cap.

Item No. : 152-00003



## Aluminum Handle

Classic universal handle heavy-duty aluminum version.

Item No. : 152-00005



## Handle 1

Non-telescopic handle, excellent for heavy-duty deburring tasks. All E-series blades fit directly into handle.

Item No. : 152-00026



## HandyChuck Pin Vise

Holds small files, drills, reamers, taps, mold polishing stones, wires, countersinks, etc.  
Grips objects with 1 mm (.04") to 8 mm (.32") diameter. Can be used with C50 & C60 scrapers.  
Useful for repairing and assembling watches, electrical appliances & miniature electronic equipment.

Item No. : 155- 29057



# Leading-edge quality features



• **With its unique design**, the Mango II handles let you get the grip you want for the job at hand:  
**Long-reach** The telescopic holders allow you to adjust the length and get to the most difficult-to-reach spots, quickly and effortlessly.



**Extra-close** The B-and E-series blade adapters with safety lock for blade replacement enable you to get right up to the workpiece and give you the truly close grip you need for really tough jobs.



• **From texture to geometry**, the Mango II handles are designed for unsurpassed quality. Advanced materials were chosen for low weight and at the same time, for strength and durability. The contoured shape and robust materials not only give you the strong safe grip required for heavy-duty applications, but also improve comfort and productivity. Mango II handles are produced with recyclable materials that are friendly to the environment and to the sensitive surface of your skin.

• **Mango II handles are designed** with an improved ergonomic end cap for safety, providing a most comfortable grip, even when applying force to clean stubborn burrs. Sockets included for convenient blade storage.  
- 2 sockets for B Blades (Set B)  
- 3 sockets for E Blades (Set E)



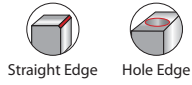


# LONG-REACH SETS

Long-reach sets are made up of blades, holders and handles. Sets available with optional handles.

## Mango II Set B

The Workhorse



Popular set for holes, slots & edges. B holder supports all B blades which can be inserted axially or perpendicular to the holder.



Handle: Mango II | Holder: B | Blades: B10, B20 | Item No. : 155-90056

## SHAVIV Set B Aluminum



Handle: Aluminum | Item No. : 155-29066

## SHAVIV Set B



Handle: Classic | Item No. : 155-29065

## Mango II Set E

Heavy DeBurr



Rugged deburring set for heavy-duty deburring of holes, slots and edges. E holder supports all E blades.



Handle: Mango II | Holder: E | Blades: E100, E200, E300 | Item No. : 155-90065

## SHAVIV Set E Aluminum



Handle: Aluminum | Item No. : 155-00019

## SHAVIV Set E



Handle: Classic | Item No. : 155-29069

# LONG-REACH SETS

## Mango II Set F

The Countersink



Hole Edge

Powerful tool, excellent for chamfering and countersinking. Use for hole-edge applications with up to 20 mm (.79") diameter.



F20

F

**Handle:** Mango II | **Holder:** F | **Blades:** F20 | **Item No.:** 155-90071

## Aluminum Set F



**Handle:** Aluminum | **Item No.:** 155-00222

## SHAVIV Set F



**Handle:** Classic | **Item No.:** 155-29070

## Mango II Rotoburr Set

The Swivel Countersink



Hole Edge

Premium set for quick and easy cleaning of holes using convenient swivel holder. Use for hole-edge applications with up to 20 mm (.79") diameter.



F20

Rotoburr

**Handle:** Mango II | **Holder:** Rotoburr | **Blades:** F20 | **Item No.:** 155-00338

## Aluminum Rotoburr Set



**Handle:** Aluminum | **Item No.:** 155-00339

## Mango II Set FR

Ratchet-Burr for ID



Hole Edge

Features FR ratchet holder, ideal for rotational chamfering, even when workspace is limited. Inside diameter (ID) up to 20 mm (.79").



F20

FR

**Handle:** Mango II | **Holder:** FR | **Blades:** F20 | **Item No.:** 155-90072

## Aluminum Set FR



**Handle:** Aluminum | **Item No.:** 155-00223

## SHAVIV Set FR



**Handle:** Classic | **Item No.:** 155-29071

## Mango II Set C

The Scraper



Straight Edge



Hole Edge



Flat Surface



Hole Inner Surface

Features triangular blade with 3 cutting edges for high quality finishing & scraping. The telescopic blade holder lets you get to difficult-to-reach areas. Includes key for safely removing blades.



C42

C



C Key

**Handle:** Mango II | **Holder:** C | **Blades:** C42 | **Item No.:** 155-90062

## SHAVIV Set C



**Handle:** Classic | **Item No.:** 155-29067

# LONG-REACH SETS

## Mango II Set D

The Sheet Cleaner



Flat Surface



Sheets

Perfect for sheet metal up to 3 mm (.12") thick. Blade deburrs both sides of sheet in one pass. Blade also functions as a surface cleaner.



D80C

D



For added safety, use with Handguard **Item No. :** 152-00030

**Handle:** Mango II | **Holder:** D | **Blades:** D80C | **Item No. :** 155-90064

## SHAVIV Set D



**Handle:** Classic | **Item No. :** 155-290068

## Mango II Set U

The Heavy Scraper



Flat Surface



Hole Inner Surface

Precision scraper contains 3 mini-scraper blades and specially designed holder for extra precision work for linear movement. Ideal for die makers.



U1

U



U4



U31

**Handle:** Mango II | **Holder:** U | **Blades:** U1 (BUS1), U4 (BUS4), U31 (BUS31) | **Item No. :** 155-00221

## SHAVIV Set U



**Handle:** Classic | **Item No. :** 155-29119



## Mango II Set Burr-Ex

Ratchet-Burr for OD



Features FR ratchet holder, ideal for rotational chamfering, even when workspace is limited.  
For Outer Diameter (OD) chamfering up to 26 mm (1").



F26X

FR

**Handle:** Mango II | **Holder:** FR | **Blades:** F26X | **Item No. :** 155-90073

## Aluminum Set Burr-Ex



**Handle:** Aluminum | **Item No. :** 155-00224

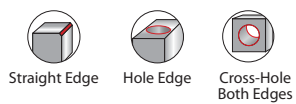
## SHAVIV Set Burr-Ex



**Handle:** Classic | **Item No. :** 155-29146

## Mango II Set M

The 2 in 1



Deburs holes, slots & edges. Holder M supports both B and E blades.



B30

M



E200



E111



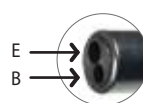
E100



B20



B10



E  
B

**Handle:** Mango II | **Holder:** M | **Blades:** B10, B20, B30, E100, E111, E200 | **Item No. :** 155-00199

## SHAVIV Set M



**Handle:** Classic | **Item No. :** 155-29178

# LONG-REACH SETS

## Mango II Set L

External Pipe-Edge Cleaner



Straight Edge



Outer Edge

External curved-edge cleaner tool set for the deburring of external curved edges, for pipes and tubes.



L10

L

Handle: Mango II | Holder: L | Blades: L10 | Item No. : 155-00220

## SHAVIV Set L



Handle: Classic | Item No. : 155-29076

## Mango II Set G

Slot Edge Cleaner



Slot/ Keyways

Ideal for deburring and cleaning edges of internal & external keyways and slots up to 15 mm (.6") wide. Blade features 8 cutting edges.



G10

G



Handle: Mango II | Holder: G | Blades: G10 | Item No. : 155-90074

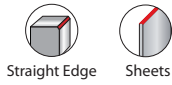
## SHAVIV Set G



Handle: Classic | Item No. : 155-29072

## Mango II Set Burr-Bi

Heavy-Duty Sheet Cleaner



For heavy-duty deburring of materials with single or double straight edges up to 14 mm (.56") thick. Holder can take two R10, R20 or R30 blades for arc-shaped finishes on workpieces up to 16 mm (.63") thick. Handguard attached for worker safety.



Handle: Mango II | Holder: BR | Blades: R10 x 2 | Key : BR | Item No. : 155-00206

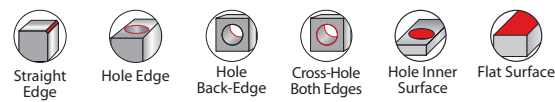
## SHAVIV Set Burr-Bi



Handle: Classic | Item No. : 155-29140

## Mango II Multi Set E

Heavy DeBurr



A complete set for the most popular deburring and scraping applications.



Handle: Mango II | Holder: E | Blades: E100, E200, E300, E400 | Item No. : 155-00312



# EXTRA-CLOSE SETS

## Mango II - The most recommended handle for comfort and control in deburring

**Works with all  
B and E blades**

**Permanent adapters  
for simple blade replacement**

**Comfortable, ergonomic handle  
for standard-sized hands**

### Mango II B+1



B10

Handle: Mango II | Blades: B10 | Item No. : 155-90058

### Mango II B+2



B10



B20

Handle: Mango II | Blades: B10, B20 | Item No. : 155-90060

### Mango II B+4



B10



B20



B25



B11

Handle: Mango II | Blades: B10, B20, B25, B11 | Item No. : 155-90061

### Mango II E+1



E100

Handle: Mango II | Blades: E100 | Item No. : 155-90066

### Mango II E+3



E100



E200



E300

Handle: Mango II | Blades: E100, E200, E300 | Item No. : 155-90068

### Mango IIE+5



E100



E200



E300



E111



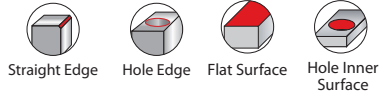
E120

Handle: Mango II | Blades: E100, E200, E300, E111, E120 | Item No. : 155-00162



# EXTRA-CLOSE SETS

## Set HC HandyChuck



Delivers pin vise versatility for finishing & scraping applications. Also used for gripping miniature files, drills, reamers, taps, wires, countersinks and other small objects: 1-8 mm (.04"-.32") in diameter. Handy for assembling electronic components and watch repair.



C50

Set HC **Handle:** HandyChuck Pin Vise | **Blades:** C50 | **Item No.:** 155-00163



C60

Set HC6 **Handle:** HandyChuck Pin Vise | **Blades:** C60 | **Item No.:** 155-00164

## Set 1 Edge Cleaner



The original set for heavy duty deburring of holes and edges. Features a built-in, non-telescopic steel blade holder, which holds blades close to handle.



E100



E200



E300

**Handle:** Handle 1 | **Blades:** E100, E200, E300 | **Item No.:** 155-29078

# Deburring has never been so easy!

Works with E blades,  
**just Click n' Go!**

**Easy-to-use,**  
comfortable and durable

Best suited for  
**larger-sized hands**

## Mango Click+12 E100



Handle: Mango Click | Blades: E100 x12 | Item No. : 155-29229

## Mango Click Set E3



Handle: Mango Click | Blades: E100, E200, E300 | Item No. : 155-90076

## Mango Click Set E5



Handle: Mango Click | Blades: E100, E200, E300, E111, E120 | Item No. : 155-00161



# CERAMIC TOOLS

Deflash plastics and soft metals. Remove unwanted mold gate trim on plastic work pieces. Avoid accidents commonly occurring with utility blades.

## CERAMIX Set Q10

Heavy-Duty Handle with Ceramic Q10 Blade



Straight Edge



Flat Surface



Mold Gate Trim

Adjust the cutting angle between the blade and the material for best results and to prevent scratches. Flip blade for 2 types of jobs.

Flip blade for 2 types of jobs:



Side 1: Surface cleaner



Side 2: Sheet edge cleaner



Free utility blade provided with set

Handle: Ceramic Handle | Blades: Q10 | Item No. : 155-29238

## CERAMIX Curved Set Q12

Heavy-Duty Handle with Ceramic Q11 Blade



Straight Edge



Mold Gate Trim

Curved blades reach arched and angled areas. Adjust the cutting angle between the blade and the material for best results and to prevent scratches.

Flip blade for 2 types of jobs:



Side 1: Curved edge cleaner



Side 2: Sheet edge cleaner



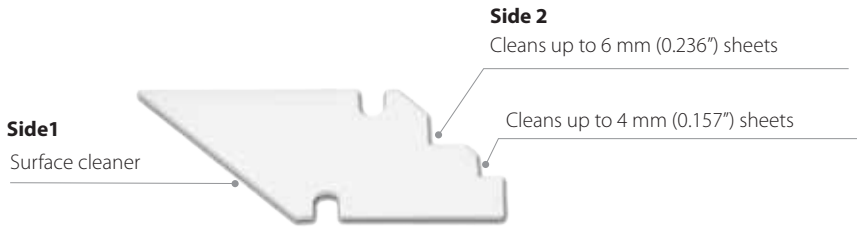
Free utility blade provided with set

Handle: Ceramic Handle | Blades: Q11 | Item No. : 155-00238



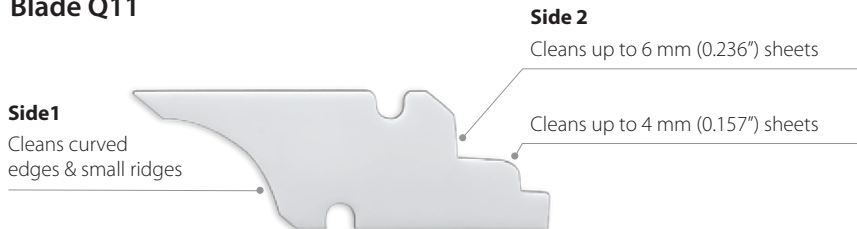
## CERAMIX Blades

### Blade Q10



**Blades Name/Description:** Blade Ceramix Q10 | **Blades:** Q10 | **Item No. :** 151-29236

### Blade Q11



**Blades Name/Description:** Ceramix Curved Blade Q11 | **Blades:** Q11 | **Ordering No. :** 151-00132

## Cera-Burr

Ceramic Blade Tools



High quality ceramic blades affixed on strong, lightweight handle.

### Cera-Burr



**Handle:** Glo-Burr | **Blades:** Permanent | **Item No. :** 155-90084

### Cera-Burr Curve Q11

Curved blades reach arched and angled areas.



**Handle:** Glo-Burr | **Blades:** Permanent | **Item No. :** 155-00239

# TiN COATED SETS

TiN coated blades (Titanium Nitride) provide significantly increased tool life over standard non-coated blades

## AEROBURR Set

For the Aviation / Aerospace / Medical Industries

Deburr curves and small holes as small as 1.5 mm (1/16")

### Set B11P

Standard Duty Applications



**Handle:** Mango II | **Holder:** B  
**Blades:** 5 X B11P | **Item No.:** 155-00231

### Set E111P

Heavy Duty Applications



**Handle:** Mango II | **Holder:** E  
**Blades:** 5 X E111P | **Item No.:** 155-00232



## Golden Flex Set B

Standard Deburring



**Handle:** Aluminum | **Holder:** B  
**Blades:** B10P x 2, B11P x 2, B12P x 2, B20P x 2, B30P x 2  
**Item No.:** 154-00258

## Golden Flex Set E

for Heavy Duty Deburring



**Handle:** Aluminum | **Holder:** E  
**Blades:** E100P x 2, E110P x 2, E111P x 2, E200P x 2, E300P x 2  
**Item No.:** 154-00259

## Multi-purpose Blade Set B

for Standard Deburring



**Blades:** B10P x 2, B11P x 2, B12P x 2, B20P x 2, B30P x 2  
**Item No.:** 155-00252

## Multi-purpose Blade Set E

for Heavy Duty Deburring



**Blades:** E100P x 2, E110P x 2, E111P x 2, E200P x 2, E300P x 2  
**Item No.:** 155-00251

# BONUS PACKS

Bonus Packs feature plastic **10-pack packaging** for easy storage and removal

Cobalt blades excellent for **longer blade life** - and great on high end material such as stainless steel

## For Extra-Close Work

Each Bonus Pack includes 10 blades and **FREE** Mango II B/E handle. Available with HSS or Cobalt B10 or E100 blades

**Handle:** FREE Mango II B/E | **Blades:** 10 Blades - B10 HSS or E100 HSS or Cobalt

10 x B10 (HSS)		<b>Item No. :</b> 155-00177
10 x E100 (HSS)		<b>Item No. :</b> 155-00178
10 x B10S (Cobalt)		<b>Item No. :</b> 155-00183
10 x E100S (Cobalt)		<b>Item No. :</b> 155-00179



## For Long-Reach Work

Each Bonus Pack includes 10 blades + holder, and **FREE** Mango II handle. Available with HSS or Cobalt B10 or E100 blades

**Handle:** FREE Mango II | **Blades:** 10 Blades - B10 HSS or E100 HSS or Cobalt | **Holder:** B or E

10 x B10 (HSS)		<b>Holder:</b> B		<b>Item No. :</b> 155-00180
10 x E100 (HSS)		<b>Holder:</b> E		<b>Item No. :</b> 155-00181
10 x B10S (Cobalt)		<b>Holder:</b> B		<b>Item No. :</b> 155-00184
10 x E100S (Cobalt)		<b>Holder:</b> E		<b>Item No. :</b> 155-00182



# COMPACT SETS

Glo-Burr Sets

**01**

Replaceable blades

**02**

Designed for deburring of steel, aluminum, copper & plastic

**03**

Glo-Burr B and E handles work with B and E series blades respectively

**04**

Lightweight, easy-to-grip, made engineered reinforced plastic

## Glo-Burr B - Standard Duty



### B10 Glo-Burr

Deburs materials with spiral chips

Green Item No. : 155-29152

Glo-Burr B10 Set is also available in the following colors:

Blue Item No. : 155-29134 | Yellow Item No. : 155-29154 | Red Item No. : 155-29153

### B20 Glo-Burr

Rotates clockwise & counterclockwise for materials with powdery chips

Red Item No. : 155-00274

### B30 Glo-Burr

Deburs inside & outside of holes up to 4.0 mm (16") thick

Yellow Item No. : 155-00275

### B11 Glo-Burr

Extra thin. Deburs holes with min. diameter 2.0 mm (.08")

Blue Item No. : 155-00273



## Glo-Burr B / E 48pc Assortment Kits

Popular, easy-to-grip deburring tools with removable blades

Strong, yet lightweight. Features convenient pocket clip and blade storage. Deburs Steel, Aluminum, Copper and Plastics.

Glo-Burr B Item No. : 155-29136 | Glo-Burr E Item No. : 155-00013



## Glo-Burr E- Heavy Duty



### E100 Glo-Burr

Deburs materials with spiral chips

**Green Item No. :** 155-29155

Glo-Burr E100 Set is also available in the following colors:

**Blue Item No. :** 155-29133 | **Yellow Item No. :** 155-29157 | **Red Item No. :** 155-29156

### E200 Glo-Burr

Rotates clockwise & counterclockwise for materials with powdery chips

**Red Item No. :** 155-00268

### E300 Glo-Burr

Deburs inside & outside of holes up to 6.0 mm (.24") thick

**Yellow Item No. :** 155-00267

### E111 Glo-Burr

Extra thin. Deburs holes with min. diameter 1.5 mm (.06")

**Blue Item No. :** 155-00270

## Glo-Burr Handy Kit 4B /4E

A tool 4 every deburring job

Includes 4 Glo-Burr B handles, blades: B10, B20, B30, B11





Glo-Burr 4B **Item No. :** 155-90042

Includes 4 Glo-Burr E handles, blades: E100, E200, E300, E111

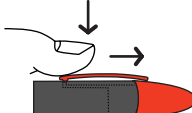
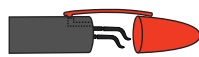

Glo-Burr 4E **Item No. :** 155-29144



## How to Replace the Glo-Burr Blade

-  **01**  
Turn handle until the dots are in aligned position (unlocked)
-  **02**  
Extract old blade
-  **03**  
Insert new blade
-  **04**  
Turn handle until the dots are in non-aligned position (locked)

## Spare Blades Storage

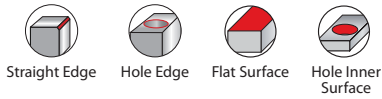
-  **01**  
Press down on clip and push end cap out
-  **02**  
Store spare blades inside handle
-  **03**  
Push back the end cap to close

# COMPACT SETS

Scrape-Burrs

## Scrape-Burr 42

The Heavy-Duty Scraper



This durable and secure Scrape-Burr 42 set features a permanent heavy-duty triangular blade with 3 cutting edges for high quality finishing & scraping.

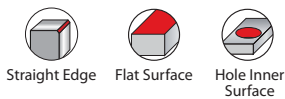


C42

Handle: Glo-Burr | Blades: C42 | Item No. : 155-90079

## Scrape-Burr 40

The All-Purpose Scraper



This useful and convenient all-purpose standard scraper features a permanent heavy-duty triangular blade with 3 cutting edges for high quality finishing & scraping.

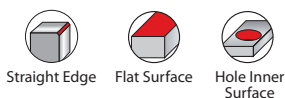


C40

Handle: Glo-Burr | Blades: C40 | Item No. : 155-90078

## Scrape-Burr 400

The Fine-Finish Scraper



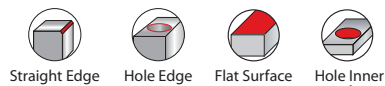
This mini tool delivers a fine finish to precision work pieces. Features extra-thin, heavy-duty triangular blade with 3 cutting edges for high quality and accurate finishing & scraping.



C400

Handle: Glo-Burr | Blades: C400 | Item No. : 155-90080

## Scrape-Burr Kit 3+1



All 3 Scrape-Burrs in one kit!  
Plus FREE Glo-Burr handle with B10 blade.

Handle: Glo-Burr | Blades: B10, C40, C42, E400 | Item No. : 155-90081



# COMPACT SETS

UNIBURR- Popular, Slim-Grip Deburring Tools

## Features & Benefits of UNIBURR

Strong, yet lightweight

Features convenient pocket clip

Deburrs steel, aluminum, copper and plastics

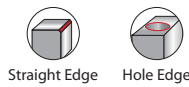
Anodized aluminum handle for long life and heavy duty applications

Also available in additional colors

UB2000 and MB2000 can be used with all kinds of B & E type of blades

### UB1 DisposaBurr

Disposable. Comes with heavy-duty E100 blade.

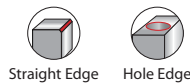


Yellow Item No. : 155-29080

Black Item No. : 155-00165 | Blue Item No. : 155-29181 | Green Item No. : 155-00166 | Red Item No. : 155-29184

### UB2 DisposaBurr

Disposable. Comes with B10 blade.

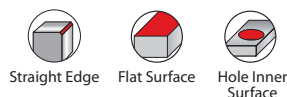


Yellow Item No. : 155-29190

Black Item No. : 155-00168 | Blue Item No. : 155-29187 | Green Item No. : 155-00169 | Red Item No. : 155-29081

### UB3 Scrapeburr

Disposable. Comes with heavy-duty E400 blade.



Yellow Item No. : 155-00333

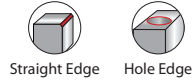
Black Item No. : 155-00334 | Blue Item No. : 155-00332 | Green Item No. : 155-00335 | Red Item No. : 155-00331

# COMPACT SETS

UNIBURR - Popular, Slim-Grip Deburring Tools

## UB2000

Comes with replaceable B10 blade - insert axially or perpendicular to handle.

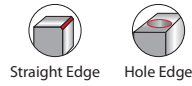


Yellow Item No. : 155-29192

Black Item No. : 155-29202 | Blue Item No. : 155-29107 | Green Item No. : 155-29203 | Red Item No. : 155-29191

## MB2000

Heavy-duty, hexagon-shaped handle.  
Comes with replaceable E100 blade.



Yellow Item No. : 155-29161

Black Item No. : 155-29158 | Blue Item No. : 155-29092 | Green Item No. : 155-00159 | Red Item No. : 155-29160

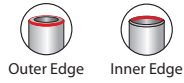




# PIPE CLEANERS

## Plum-Burr

Heavy-Duty and Standard Duty  
Pipe Cleaners



Perfect tool to deburr tubing on both inner and outer edges.  
Excellent for plumbers, installers and electricians.

### Plum-Burr Metal



Item No. : 155-90082

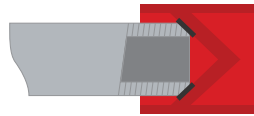
### Plum-Burr Plastic



Item No. : 155-90083



ID



OD

## 01

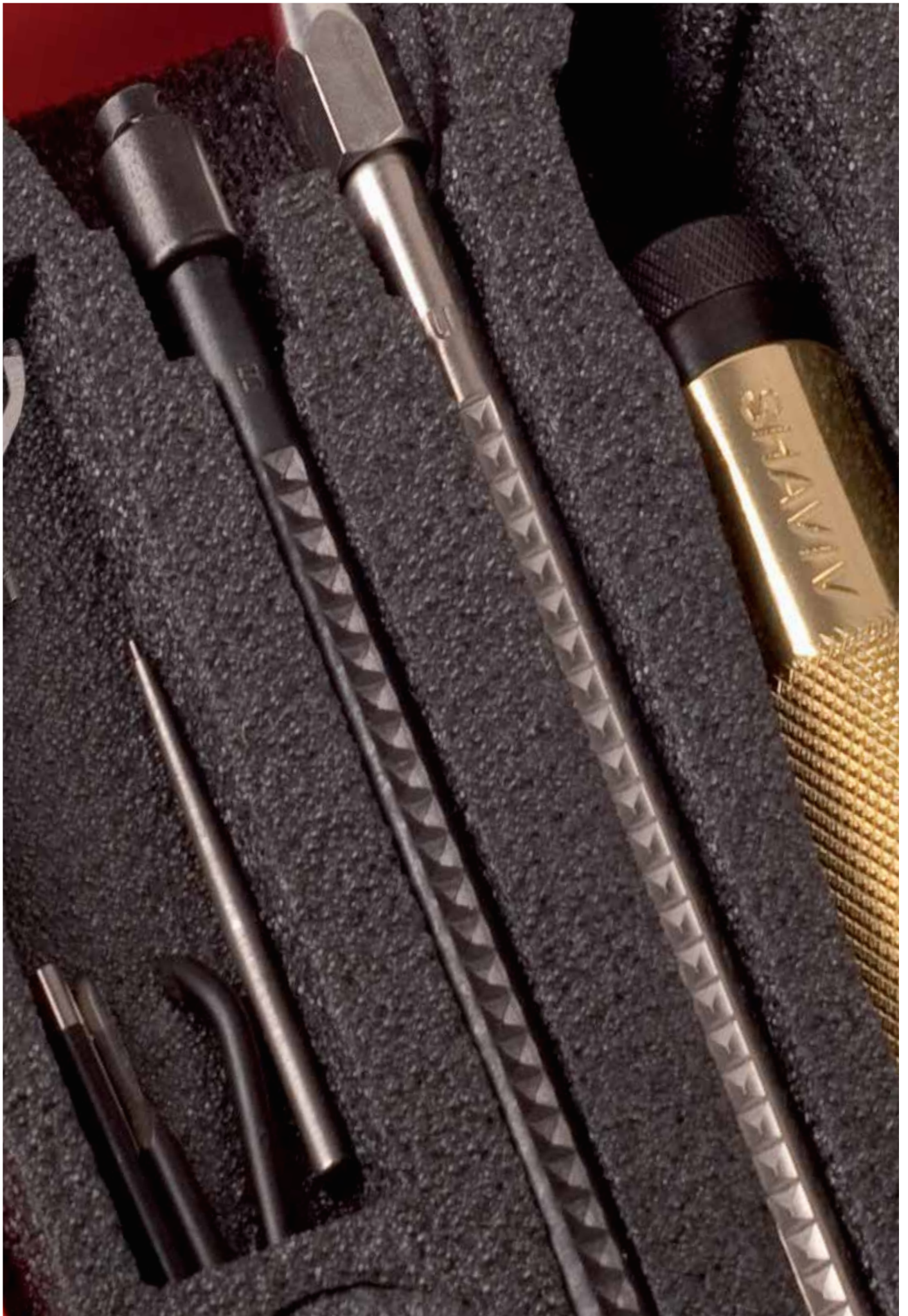
Use for aluminum, copper and  
brass tubing

## 02

Plum-Burr Metal - Tubing range:  
6 mm - 41 mm (1/4" to 1 5/8")

## 03

Plum-Burr Plastic - Tubing range:  
4.8 mm - 38 mm (3/16" to 1 1/2")



# PREMIUM KITS

Premium Kits contain the most popular tools sets and blades which provide focused solutions for the most frequently used applications. 7 types now available

Each kit designed for specific application types

Convenient packaging for storing tools

## Deburring & Scraping Standard Duty



Straight Edge



Hole Edge



Hole Back-Edge



Cross-Hole Both Edges



Hole Inner Surface



Flat Surface



Sheets

A very handy and practical combination of deburring and scraping tools all in one kit for standard duty applications.



**Handle:** Mango II | **Holder:** B, C | **Blades:** B10, B11, B20, B30, B60, B70, C40, C Key  
**Item No. :** 154-00034

## Deburring & Scraping Heavy Duty



Straight Edge



Hole Edge



Hole Back-Edge



Cross-Hole Both Edges



Hole Inner Surface



Flat Surface

A very convenient selection of deburring and scraping tools packed in one kit for heavy duty applications.



**Handle:** Mango II | **Holder:** E, C | **Blades:** C42, E100P, E111, E200, E300, E600, E700, C Key  
**Item No. :** 154-00036

# PREMIUM KITS

## Deburring & Chamfering

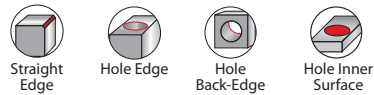


Rough edges and holes in need of deburring and chamfering?  
This is the right kit for you!



**Handle:** Mango II | **Holder:** E, F | **Blades:** E100S, E111, E200, E300, E601, F20, F26X  
**Item No. :** 154-00033

## Deburring & Filing



Specifically designed for deburring and filing applications with  
the comfortable and practical MB2020 handle.



**Handle:** MB2020E | **Holder:** 5 different shape diamond coated file | **Blades:** E100S, E400  
**Item No. :** 154-00030

## Deburring & Deflashing



The best kit on the market for deburring and deflashing standard  
and heavy-duty metal and plastic workpieces!



**Handle:** Mango II | **Holder:** B, E | **Blades:** B10, B11, B25, E111, E250, E400, E707 and Cera-Burr Ceramic Blade Tool  
**Item No. :** 154-00040

## Deburring & Sheet Cleaning



Heavy-duty deburring kit for holes, edges and sheets – excellent for a large variety of applications.



**Handle:** Mango II | **Holder:** E, D | **Blades:** D80C, D82C, E100, E111, E200, E300, E700  
**Item No. :** 154-00035

## TiN Coated

For Exotic Materials



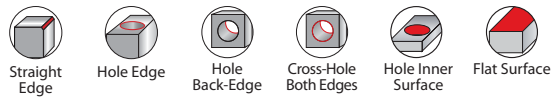
Durable multi-purpose TiN (Titanium Nitride) coated blades for high resistance and wear. Work great on exotic materials. Kit includes heavy-duty aluminum handle.



**Handle:** Aluminum Handle | **Holder:** B, E | **Blades:** B10P, B11P, B20P, B30P, E100P, E111P, E200P, E300P  
**Item No. :** 154-00045

# MULTI-PURPOSE KITS

## Top 3 Mango II Starter Kit



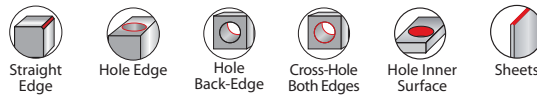
The all-in-one deburring kit for your workshop. Includes an ergonomic Mango II handle with the three most popular types of blades and holders for different deburring applications.



**Handle:** Mango II | **Holder:** B, C, & E | **Blades:** B10, B20, B30, B50, B60, C40, E100, & E300  
**Item No.:** 154-90085

## Kit Classic KPC2

The Favorite 5



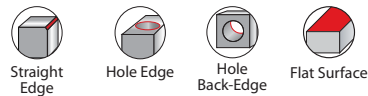
Most popular sets, provided in one handy kit.



**Handle:** Classic | **Set B:** The Workhorse | **Set C:** The Scraper | **Set D:** The Sheet Cleaner | **Set E:** The Heavy Deburr Set | **Set F:** The Countersink  
**Item No.:** 154-29060

## Kit TD

Tool & Die Maker's Kit



Professional, miniature deburring & scraping tools for providing a quality finish to dies & molds. Packaged in an attractive leather case.



**Item No.:** 155-00156

**UF1:** Flat diamond coated file **Item No.:** 155-00051 | **US1:** Triangular scraper **Item No.:** 155-00051 | **US2:** Flat scraper **Item No.:** 155-00173 |

**US3:** Round scraper **Item No.:** 155-00174 | **US4:** Hooked corner scraper **Item No.:** 155-00175

**UB38:** Miniature rotational deburring tool for min. hole diameter 2 mm (.08") **Item No.:** 155-29084

## Kit U

Ultra-Fine Finish



Straight Edge



Hole Edge



Hole Back-Edge



Cross-Hole Both Edges



Hole Inner Surface



Flat Surface

Ultra-fine finish kit for precision workpieces.



**Handle:** Aluminum | **Holder:** B,U | **Blades:** B blades for rotational deburring: B10, B11, B20 & B30

U scrapers : BUS1, BUS2, BUS31 & BUS4, E500C scriber

**Item No. :** 154-29228

## Kit KWC

The Universal Box - Plastic Case



Straight Edge



Hole Edge



Hole Back-Edge



Cross-Hole Both Edges



Hole Inner Surface



Sheets



Flat Surface

Excellent all-around deburring kit for your workshop.  
You get all the tools you need for 1000+ applications.



**Handle:** Mango II | **Holder:** B, C, D, E & F | **Blades:** B10, B20, B30, B50, B60, B70, C40, C42, D80C, E100, E200, E300, E350, E600 & F20

**Item No. :** 154-00024



**Handle:** Classic | **Holder:** B, C, D, E & F | **Blades:** B10, B20, B30, B50, B60, B70, C40, C42, D80C, E100, E200, E300, E350, E600 & F20

**Item No. :** 154-00008

## Kit KPA

Plastics Deflashing



Straight Edge



Hole Edge



Hole Back-Edge



Outer Edge



Hole Inner Surface



Inner Straight Corners

The perfect, complete kit for deflashing plastics.



**Handle:** Mango II | **Holder:** B, E, G3 & LP

**Blades:** B12, B25, E110, E700, G30C & L10 | UB38 deburring tool

**Item No. :** 154-00037



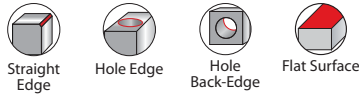
**Handle:** Classic | **Holder:** B, E, G3 & LP

**Blades:** B12, B25, E110, E700, G30C & L10 | UB38 deburring tool

**Item No. :** 154-00012

# MULTI-PURPOSE KITS

## TD Interchangeable Kit



Replaceable blades now available for Shaviv's professional line of miniature deburring and scraping tools for the dies and molds industry.



**Handle:** Aluminum | **Holder:** U | **Scraper Blades:** BUS1: Triangular Scraper, BUS2: Flat Scraper, BUS3: Round Scraper, BUS4: Hooked Corner Scraper  
Shaviv UF1 Mini File - Diamond Coated | Scrape-Burr 400 for extra fine finishing  
**Item No.:** 154-00046

## Universal Sheet Cleaner Kit

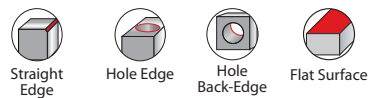


Most popular sets, provided in one handy kit. Handguard attached for worker safety.



**Handle:** Mango II | **Holder:** B, BR, D, D5 & E | **Blades:** B10, B20, B30, B70, E100, E200, E300, D80C, D82C, D85, 2 x R10 & 2 x R30 | Handguard  
**Item No.:** 154-00038

## SHAVIV DEMO KIT



Professional, miniature deburring & scraping tools for providing a quality finish to dies & molds. Packaged in an attractive SHAVIV case.



**Handle:** Mango II, Classic, Aluminum, Glo-Burr Handle B | **Holder:** B, BR, D, D5 & E | **Blades:** B10, B20, B30, B70, E100, E200, E300, D80C, D82C, D85, 2 x R10 & 2 x R30  
**Item No.:** 221-00832



# PROFESSIONAL SERIES

Tailored Deburring Solutions for Professionals & Home Improvement

## Complete Burr Removal Solutions

**SHAVIV** – The world's leader in deburring solutions widens its expertise to home use and professionals.

We adapt **our** deburring know-how to **your** natural work environment.

The **PROFESSIONAL SERIES** includes:



### Electrician Kit

The most essential deburring tools for electricians.

The kit contains 7 multi-purpose tools for deburring and chamfering metal & plastic.

Item No. : 154-00054



### Plumber Kit

Complete burr removal kit for plumbers. Ideal for use on inner and outer edges of tubes.

The kit contains 8 multi-purpose tools for deburring and chamfering metal & plastic.

Item No. : 154-00055



### Aluminum Works Kit

The easiest and fastest way to hand deburr aluminum material. The kit contains 6 multi-purpose tools for deburring and chamfering a wide range of aluminum works.

Item No. : 154-00056



### Do It Yourself Kit

The essential deburring tools for general home use, DIYers and craftsmen. The kit contains 9 multi-purpose tools for deburring a wide range of metals, wood and plastic.

Item No. : 154-00051



### Auto Burr Kit

The ideal deburring kit for auto mechanics and car lovers. The kit contains 10 multi-purpose tools for deburring and chamfering metals, chrome parts, rims, cast iron and aluminum.

Item No. : 154-00052

# SPECIALIZED KITS

## Countersink Kit

The ultimate kits for chamfering and deburring work pieces. Use countersinks with 1/4" bit holder handle or any power tool. Countersink flute angles are 90°. Each kit includes 3 different-sized solid HSS countersinks to chamfer a wide range of holes and materials, and a FREE deburring Finishing Bit.

### Tri-Flute Chamfering Kit



**Blade:** FC20 **For holes up to Ø:** 20 mm (13/16")

**Blade:** FC16 **For holes up to Ø:** 16 mm (5/8")

**Blade:** FC12 **For holes up to Ø:** 12 mm (1/2")

Kit includes FREE Finishing Bit with B12 blade

**Item No. :** 154-00031

Shaviv's popular Tri-Flute Countersinks can now be purchased separately!



FC20 **Item No. :** 151-00139

FC16 **Item No. :** 151-00137

FC12 **Item No. :** 151-00138

Shaviv's popular Tri-Flute Countersinks can be used with either the 1/4" BIT holder handle or any power tool.



**Item No. :** 156-00003

### Zero Flute Chamfering Kit



**Blade:** FD20 **Holes Range Ø:** 7-20 mm (9/32"-13/16")

**Blade:** FD13 **Holes Range Ø:** 5-13 mm (3/16"-1/2")

**Blade:** FD08 **Holes Range Ø:** 2-8 mm (5/64"-5/16")

Kit includes FREE Finishing Bit with B12 blade

**Item No. :** 154-00032

## Rotary Scraper

For High Precision Work

**01**

Triangular rotary scrapers specially designed for high precision and accurate work

**02**

Suitable for air tools with high RPM

**03**

Made from top quality HSS, strong yet flexible

**04**

Excellent for a variety of raw materials such as metals, ceramics, and plastics

**05**

Used in the aviation, electronics, jewelry, molding and other industries



**Blades:** C81-3 | **Shank Diameter:** 3.0 mm (.118") | **Tip Angle:** 5°  
**Item No. :** 151-00129



**Blades:** C82-3 | **Shank Diameter:** 3.0 mm (.118") | **Tip Angle:** 10°  
**Item No. :** 151-00130



## The New Line of Premium Carbide Burrs

The new SV-Burr line from SHAVIV includes a wide range of Tungsten Carbide tools which are used to remove burrs (deburring) and smoothen sharp metal edges when cutting or machining processes are completed.

# Features and Benefits

### 01

Wide range of Tungsten Carbide burrs -  
Up to three times stronger than  
High Speed Steel (HSS)

### 02

Compatible with hand-held tools  
or CNC machines

### 03

Used widely in industries such as:  
Metal working, tool and jewelry making,  
engineering, deburring, grinding,  
welding, carving, casting, sculpting, and  
cylinder head porting

### 04

SV-Burrs successfully tolerate  
extreme applications and perform  
better at high temperatures

### 05

New technologies provide optimum  
efficiency and expanded range of  
deburring solutions

### 06

Unique geometrical designs cover  
a variety of teeth and cutting shapes

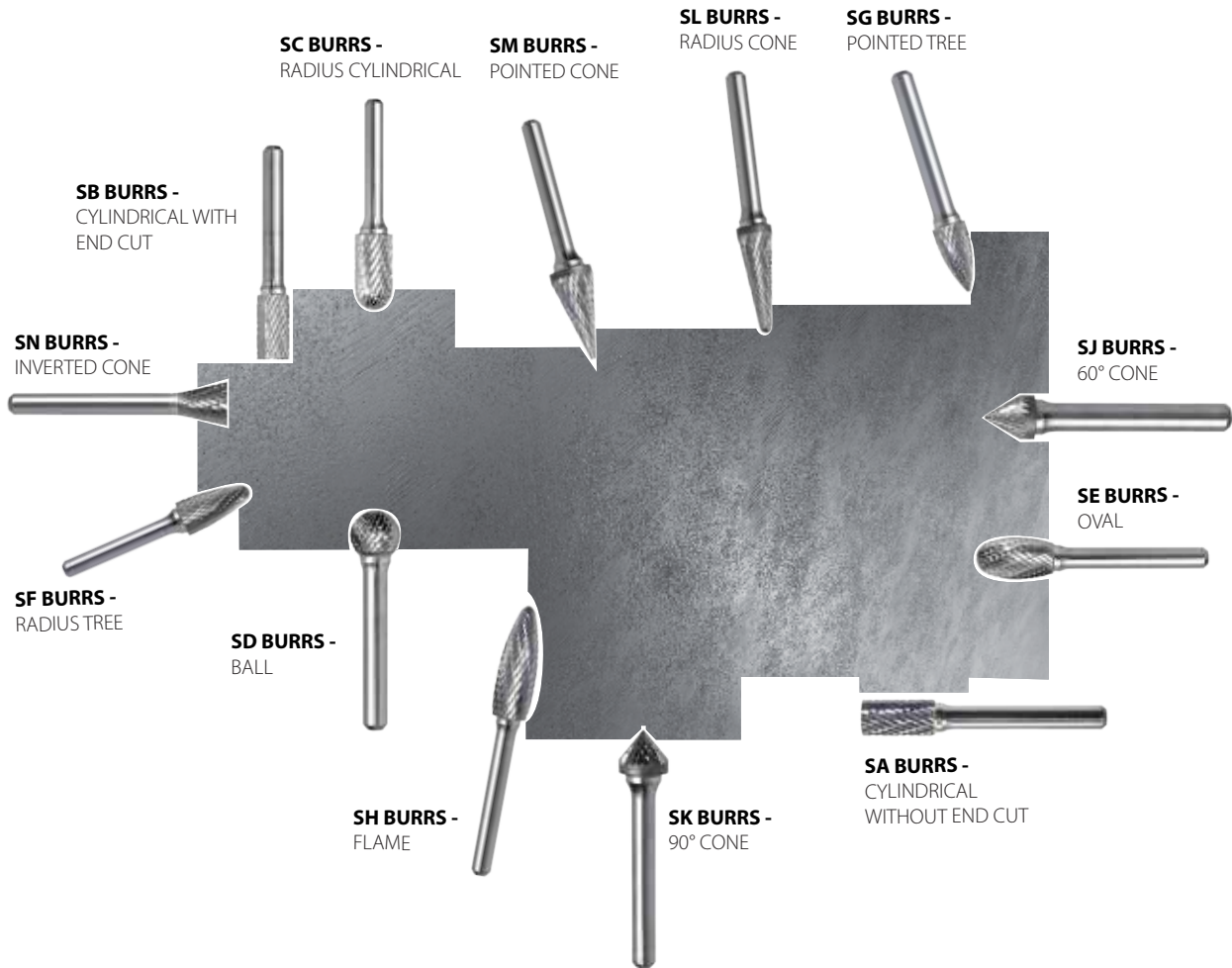
### 07

Meets increased market demands  
to deburr stainless steel, steel, cast steel  
and complex applications

### 08

Optimum adaptation and  
longer tool life

## Geometries & Applications



## Ordering Code System

SA: 1 | 3: 2 | L6: | SV: 4 | M: 5 | DC: 6

Burr Shape	Dimensions/ Reference Code	Shank Length	Product Name	Type	Cut Type
SA - Cylindrical Shape without End Cut	See each catalog page with specific shape	None - (Standard) L3/L6 - Long Shank	SV = SV-Burr	M - Metric I - Inch	DC - Double-cut FM - Aluminum-cut
SB - Cylindrical Shape with End Cut					
SC - Radius Cylindrical					
SD - Ball					
SE - Oval					
SF - Radius Tree					
SG - Pointed Tree					
SH - Flame					
SJ - 60° Cone					
SK - 90° Cone					
SL - Radius Cone					
SM - Pointed Cone					
SN - Inverted Cone					

# RECOMMENDATIONS AND APPLICATIONS

## Speed Range

Operate the burr within the limits of the recommended speed range

Running above recommended speed will cause tooth wear

Running below the optimum speed may cause chipping

Harder materials or gummy metals such as Titanium, require slower speeds

### Do's:

Choose the correct shape, diameter and cut style for each specific application

Set the maximum length of the burr in the collet

Slow down the speed for extra-long burrs, and do not exceed more than 15,000 RPM

When selecting the appropriate air tool, ensure that it is regularly maintained

Check the air tool before use to ensure it is running correctly

Hold the air tool firmly and securely fix the workpiece

Apply smooth cutting action with continuous movement

Use light pressure and let the **SV-Burr** do the job!

### Dont's :

Do not use the burr above the Maximum Operating Speed (See the Recommended Speed Guide on page 64)

Do not use the burr too slowly (See the Recommended Speed Guide on page 64)

Do not expose the burr to excessive mechanical or thermal shock

Do not drop the burr to more than one third of its periphery

Do not clog the burr into gaps, pockets, grooves, crevices or cavities

Avoid overheating to ensure that the brazed burr will not soften or detach the head from the shank \*

\* Note: This applies to burrs with a larger head diameter than shank diameter.

# RECOMMENDED SPEED GUIDE

The chart below provides general and comparative recommendations.  
To reach desired results, you may need to try a few variations.  
Long shank burrs should be used at reduced speeds.

Burr Diameter mm (Inch)	RPM
3 mm (1/8") Solid Carbide	45,000 - 50,000
5 mm (3/16") Solid Carbide	35,000 - 40,000
5 mm (3/16") Carbide Head Brazed to 3 mm (1/8") Steel Shank	30,000 - 35,000
6 mm (1/4") Solid Carbide	30,000 - 35,000
6mm (1/4") Carbide Head Brazed to 3 mm (1/8") Steel Shank	25,000 - 30,000
8 mm (5/16") Carbide Head Brazed to 6 mm (1/4") Steel Shank	25,000 - 30,000
10 mm (3/8") Carbide Head Brazed to 6 mm (1/4") Steel Shank	25,000 - 30,000
11 mm (7/16") Carbide Head Brazed to 6 mm (1/4") Steel Shank	20,000 - 25,000
12 mm (1/2") Carbide Head Brazed to 6 mm (1/4") Steel Shank	20,000 - 25,000
16 mm (5/8") Carbide Head Brazed to 6 mm (1/4") Steel Shank	15,000 - 20,000
18 mm (3/4") Carbide Head Brazed to 6 mm (1/4") Steel Shank	15,000 - 20,000
25 mm (1") Carbide Head Brazed to 6 mm (1/4") Steel Shank	12,000 - 18,000





## SA BURRS

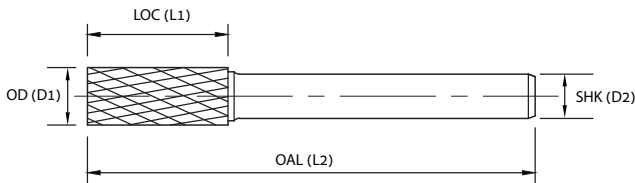
Cylindrical Shape Without End Cut



Double-cut



Aluminum-cut



### Dimensions

Ordering Code

Item Number

Description

OD (D1)

LOC (L1)

SHK (D20)

OAL (L2)

mm

Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)
SA-42SVMDC	G05-00001	SA Burrs - Cylindrical Shape without End Cut	2.5	11	3	38
SA-51SVMDC	G05-00002	SA Burrs - Cylindrical Shape without End Cut	6.3	12.7	3	50
SA-1SVMDC	G05-00003	SA Burrs - Cylindrical Shape without End Cut	6	16	6	50
SA-2SVMDC	G05-00004	SA Burrs - Cylindrical Shape without End Cut	8	19	6	64
SA-3SVMFM	G05-00005	SA Burrs - Cylindrical Shape without End Cut	9.5	19	6	64
SA-3SVMDC	G05-00006	SA Burrs - Cylindrical Shape without End Cut	9.5	19	6	64
SA-5SVMFM	G05-00007	SA Burrs - Cylindrical Shape without End Cut	12.7	25	6	70
SA-5SVMDC	G05-00008	SA Burrs - Cylindrical Shape without End Cut	12.7	25	6	70
SA-6SVMDC	G05-00009	SA Burrs - Cylindrical Shape without End Cut	16	25	6	70

Inch

SA-1SVIFM	G05-00010	SA Burrs - Cylindrical Shape without End Cut	1/4	5/8	1/4	2
SA-1SVIDC	G05-00011	SA Burrs - Cylindrical Shape without End Cut	1/4	5/8	1/4	2
SA-14SVIDC	G05-00012	SA Burrs - Cylindrical Shape without End Cut	3/16	5/8	1/4	2
SA-3SVIDC	G05-00013	SA Burrs - Cylindrical Shape without End Cut	3/8	3/4	1/4	2-1/2
SA-3SVIFM	G05-00014	SA Burrs - Cylindrical Shape without End Cut	3/8	3/4	1/4	2-1/2
SA-3L6SVIDC	G05-00015	SA Burrs - Cylindrical Shape without End Cut	3/8	3/4	1/4	6-3/4
SA-43SVIDC	G05-00016	SA Burrs - Cylindrical Shape without End Cut	1/8	9/16	1/8	1-1/2
SA-5SVIDC	G05-00017	SA Burrs - Cylindrical Shape without End Cut	1/2	1	1/4	2-3/4
SA-5SVIDC	G05-00018	SA Burrs - Cylindrical Shape without End Cut	1/2	1	1/4	2-3/4
SA-5L6SVIDC	G05-00019	SA Burrs - Cylindrical Shape without End Cut	1/2	1	1/4	7
SA-6SVIDC	G05-00020	SA Burrs - Cylindrical Shape without End Cut	5/8	1	1/4	2-3/4

## SB BURRS

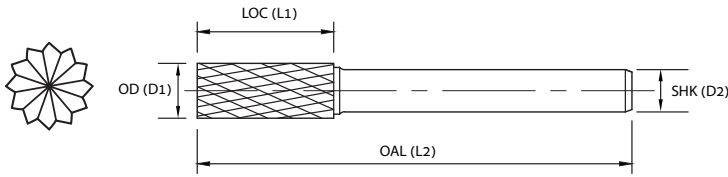
Cylindrical Shape With End Cut



Double-cut



Aluminum-cut



### Dimensions

Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D2)	OAL (L2)
			mm			
SB-43SVMDC	G06-00001	SB Burrs - Cylindrical Shape with End Cut	3	14	3	38
SB-43L3SVMDC	G06-00002	SB Burrs - Cylindrical Shape with End Cut	3	14	3	75
SB-1SVMDC	G06-00003	SB Burrs - Cylindrical Shape with End Cut	6	16	6	50
SB-2SVMDC	G06-00004	SB Burrs - Cylindrical Shape with End Cut	8	19	6	64
SB-3SVMFPM	G06-00005	SB Burrs - Cylindrical Shape with End Cut	9.5	19	6	64
SB-3SVMDC	G06-00006	SB Burrs - Cylindrical Shape with End Cut	9.5	19	6	64
SB-3L6SVMDC	G06-00007	SB Burrs - Cylindrical Shape with End Cut	9.5	19	6	169
SB-5SVMFPM	G06-00008	SB Burrs - Cylindrical Shape with End Cut	12.7	25	6	70
SB-5SVMDC	G06-00009	SB Burrs - Cylindrical Shape with End Cut	12.7	25	6	70
SB-5L6SVMDC	G06-00010	SB Burrs - Cylindrical Shape with End Cut	12.7	25	6	175
SB-6SVMDC	G06-00011	SB Burrs - Cylindrical Shape with End Cut	16	25	6	70
Inch						
SB-1SVIDC	G06-00012	SB Burrs - Cylindrical Shape with End Cut	1/4	5/8	1/4	2
SB-1SVIFM	G06-00013	SB Burrs - Cylindrical Shape with End Cut	1/4	5/8	1/4	2
SB-3SVIDC	G06-00014	SB Burrs - Cylindrical Shape with End Cut	3/8	3/4	1/4	2-1/2
SB-3SVIFM	G06-00015	SB Burrs - Cylindrical Shape with End Cut	3/8	3/4	1/4	2-1/2
SB-3L6SVIDC	G06-00016	SB Burrs - Cylindrical Shape with End Cut	3/8	3/4	1/4	6-3/4
SB-43SVIDC	G06-00017	SB Burrs - Cylindrical Shape with End Cut	1/8	9/16	1/8	1-1/2
SB-5SVIDC	G06-00018	SB Burrs - Cylindrical Shape with End Cut	1/2	1	1/4	2-3/4
SB-5SVIFM	G06-00019	SB Burrs - Cylindrical Shape with End Cut	1/2	1	1/4	2-3/4
SB-5L6SVIDC	G06-00020	SB Burrs - Cylindrical Shape with End Cut	1/2	1	1/4	7

## SC BURRS

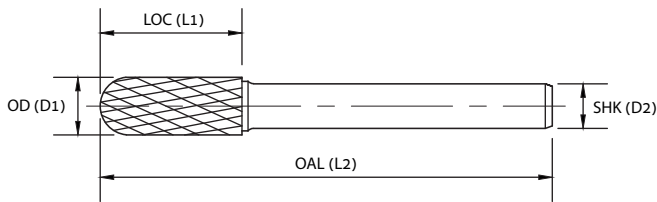
Radius Cylindrical Shape



Double-cut



Aluminum-cut



### Dimensions

Ordering Code

Item Number

Description

OD (D1)

LOC (L1)

SHK (D20)

OAL (L2)

mm

SC-42SVMDC	G07-00001	SC Burrs - Radius Cylindrical Shape	3	14	3	38
SC-42L3SVMDC	G07-00002	SC Burrs - Radius Cylindrical Shape	3	14	3	75
SC-51SVMDC	G07-00003	SC Burrs - Radius Cylindrical Shape	6.3	12.7	3	50
SC-1SVMDC	G07-00004	SC Burrs - Radius Cylindrical Shape	6	16	6	50
SC-2SVMDC	G07-00005	SC Burrs - Radius Cylindrical Shape	8	19	6	64
SC-3SVMFM	G07-00006	SC Burrs - Radius Cylindrical Shape	9.5	19	6	64
SC-3SVMDC	G07-00007	SC Burrs - Radius Cylindrical Shape	9.5	19	6	64
SC-3L6SVMDC	G07-00008	SC Burrs - Radius Cylindrical Shape	9.5	19	6	169
SC-5SVMFM	G07-00009	SC Burrs - Radius Cylindrical Shape	12.7	25	6	70
SC-5SVMDC	G07-00010	SC Burrs - Radius Cylindrical Shape	12.7	25	6	70
SC-5SVM6DC	G07-00011	SC Burrs - Radius Cylindrical Shape	12.7	25	6	175
SC-6SVMDC	G07-00012	SC Burrs - Radius Cylindrical Shape	16	25	6	70

Inch

SC-1SVIDC	G07-00013	SC Burrs - Radius Cylindrical Shape	1/4	5/8	1/4	2
SC-3SVIDC	G07-00014	SC Burrs - Radius Cylindrical Shape	3/8	3/4	1/4	2-1/2
SC-3SVIFM	G07-00015	SC Burrs - Radius Cylindrical Shape	3/8	3/4	1/4	2-1/2
SC-3L6SVIDC	G07-00016	SC Burrs - Radius Cylindrical Shape	3/8	3/4	1/4	6-3/4
SC-42SVIDC	G07-00017	SC Burrs - Radius Cylindrical Shape	1/8	9/16	1/8	1-1/2
SC-5SVIDC	G07-00018	SC Burrs - Radius Cylindrical Shape	1/2	1	1/4	2-3/4
SC-5SVIFM	G07-00019	SC Burrs - Radius Cylindrical Shape	1/2	1	1/4	2-3/4
SC-5L6SVIDC	G07-00020	SC Burrs - Radius Cylindrical Shape	1/2	1	1/4	7
SC-51SVIDC	G07-00021	SC Burrs - Radius Cylindrical Shape	1/4	1/2	1/8	2

**SD BURRS**

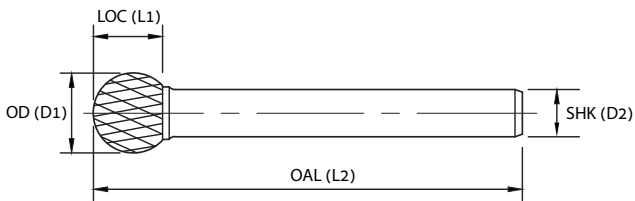
Ball Shape



Double-cut



Aluminum-cut



Dimensions

Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)
mm						
SD-42SVMDC	G08-00001	SD Burrs - Ball Shape	3	2.5	3	38
SD-42L3SVMDC	G08-00002	SD Burrs - Ball Shape	3	2.5	3	75
SD-51SVMDC	G08-00003	SD Burrs - Ball Shape	6.3	5	3	44
SD-1SVMDC	G08-00004	SD Burrs - Ball Shape	6	5	6	50
SD-2SVMDC	G08-00005	SD Burrs - Ball Shape	8	6.4	6	51.4
SD-3SVMFEM	G08-00006	SD Burrs - Ball Shape	9.5	8	6	53
SD-3SVMDC	G08-00007	SD Burrs - Ball Shape	9.5	8	6	53
SD-3L6SVMDC	G08-00008	SD Burrs - Ball Shape	9.5	8	6	158
SD-5SVMFEM	G08-00009	SD Burrs - Ball Shape	12.7	11	6	56
SD-5SVMDC	G08-00010	SD Burrs - Ball Shape	12.7	11	6	56
SD-5L6SVMDC	G08-00011	SD Burrs - Ball Shape	12.7	11	6	161
SD-6SVMDC	G08-00012	SD Burrs - Ball Shape	16	14	6	59
Inch						
SD-1SVIDC	G08-00013	SD Burrs - Ball Shape	1/4	7/32	1/4	2
SD-42SVIDC	G08-00014	SD Burrs - Ball Shape	1/8	1/8	1/8	1-1/2
SD-3SVIDC	G08-00015	SD Burrs - Ball Shape	3/8	5/16	1/4	2-1/8
SD-5SVIDC	G08-00016	SD Burrs - Ball Shape	1/2	7/16	1/4	2-1/4
SD-5SVIFEM	G08-00017	SD Burrs - Ball Shape	1/2	7/16	1/4	2-1/4
SD-5L6SVIDC	G08-00018	SD Burrs - Ball Shape	1/2	7/16	1/4	6-1/2
SD-51SVIDC	G08-00019	SD Burrs - Ball Shape	1/4	7/32	1/8	1-3/4

# SE BURRS

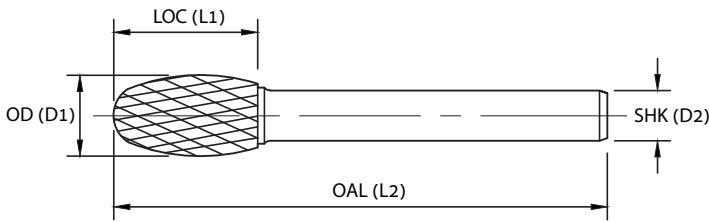
Oval Shape



Double-cut



Aluminum-cut



### Dimensions

Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D2)	OAL (L2)
			mm			
SE-41SVMDC	G09-00001	SE Burrs - Oval Shape	3	5.5	3	38
SE-51SVMDC	G09-00002	SE Burrs - Oval Shape	6.3	9.5	3	47
SE-1SVMDC	G09-00003	SE Burrs - Oval Shape	6	9.5	6	50
SE-3SVMDC	G09-00004	SE Burrs - Oval Shape	9.5	16	6	61
SE-5SVMDC	G09-00005	SE Burrs - Oval Shapes	12.7	22	6	67
SE-6SVMDC	G09-00006	SE Burrs - Oval Shape	16	25	6	70
Inch						
SE-1SVIDC	G09-00007	SE Burrs - Oval Shape	1/4	3/8	1/4	2
SE-3SVIDC	G09-00008	SE Burrs - Oval Shape	3/8	5/8	1/4	2-3/8
SE-3SVIFM	G09-00009	SE Burrs - Oval Shape	3/8	5/8	1/4	2-3/8
SE-3L6SVIDC	G09-00010	SE Burrs - Oval Shape	3/8	5/8	1/4	6-5/8
SE-41SVIDC	G09-00011	SE Burrs - Oval Shape	1/8	7/32	1/8	1-1/2
SE-5SVIDC	G09-00012	SE Burrs - Oval Shape	1/2	7/8	1/4	2-5/8
SE-5SVIFM	G09-00013	SE Burrs - Oval Shape	1/2	7/8	1/4	2-5/8
SE-5L6SVIDC	G09-00014	SE Burrs - Oval Shape	1/2	7/8	1/4	6-7/8

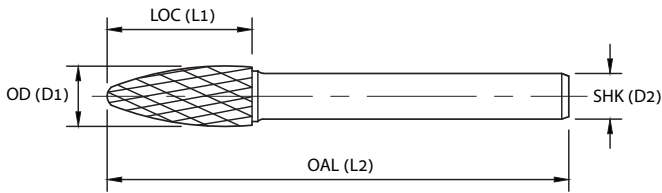
**SF BURRS**  
Radius Tree Shape



Double-cut



Aluminum-cut



**Dimensions**

Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)
mm						
SF-42SVMDC	G10-00001	SF Burrs - Radius Tree Shape	3	12.7	3	38
SF-42L3SVMDC	G10-00002	SF Burrs - Radius Tree Shape	3	12.7	3	75
SF-51SVMDC	G10-00003	SF Burrs - Radius Tree Shape	6.3	12.7	3	50
SF-1SVMDC	G10-00004	SF Burrs - Radius Tree Shape	6	16	6	50
SF-3SVMFM	G10-00005	SF Burrs - Radius Tree Shape	9.5	19	6	64
SF-3SVMDC	G10-00006	SF Burrs - Radius Tree Shape	9.5	19	6	64
SF-3L6SVMDC	G10-00007	SF Burrs - Radius Tree Shape	9.5	19	6	169
SF-5SVMFM	G10-00008	SF Burrs - Radius Tree Shape	12.7	25	6	70
SF-5SVMDC	G10-00009	SF Burrs - Radius Tree Shape	12.7	25	6	70
SF-5L6SVMDC	G10-00010	SF Burrs - Radius Tree Shape	12.7	25	6	175
SF-6SVMDC	G10-00011	SF Burrs - Radius Tree Shape	16	25	6	70

Inch						
SF-1SVIDC	G10-00012	SF Burrs - Radius Tree Shape	1/4	5/8	1/4	2
SF-3SVIDC	G10-00013	SF Burrs - Radius Tree Shape	3/8	3/4	1/4	2-1/2
SF-3SVIFM	G10-00014	SF Burrs - Radius Tree Shape	3/8	3/4	1/4	2-1/2
SF-3L6SVIDC	G10-00015	SF Burrs - Radius Tree Shape	3/8	3/4	1/4	6-3/4
SF-42SVIDC	G10-00016	SF Burrs - Radius Tree Shape	1/8	1/2	1/8	1-1/2
SF-5SVIDC	G10-00017	SF Burrs - Radius Tree Shape	1/2	1	1/4	2-3/4
SF-5SVIFM	G10-00018	SF Burrs - Radius Tree Shape	1/2	1	1/4	2-3/4
SF-5L6SVIDC	G10-00019	SF Burrs - Radius Tree Shape	1/2	1	1/4	7
SF-6SVIDC	G10-00020	SF Burrs - Radius Tree Shape	5/8	1	1/4	2-3/4

# SG BURRS

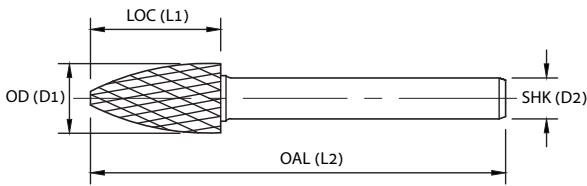
Pointed Tree Shape



Double-cut



Aluminum-cut



## Dimensions

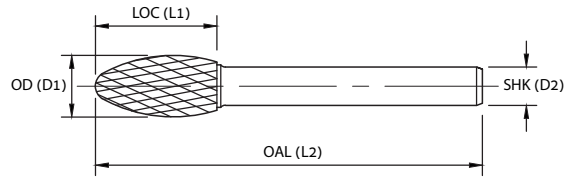
Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)
mm						
SG-44SVMDC	G11-00001	SG Burrs - Pointed Tree Shape	3	12.7	3	38
SG-51SVMDC	G11-00002	SG Burrs - Pointed Tree Shape	6.3	12.7	3	50
SG-1SVMDC	G11-00003	SG Burrs - Pointed Tree Shape	6	16	6	50
SG-2SVMDC	G11-00004	SG Burrs - Pointed Tree Shape	8	19	6	64
SG-3SVMFM	G11-00005	SG Burrs - Pointed Tree Shape	9.5	19	6	64
SG-3SVMDC	G11-00006	SG Burrs - Pointed Tree Shape	9.5	19	6	64
SG-5SVMFM	G11-00007	SG Burrs - Pointed Tree Shape	12.7	25	6	70
SG-5SVMDC	G11-00008	SG Burrs - Pointed Tree Shape	12.7	25	6	70
SG-6SVMDC	G11-00009	SG Burrs - Pointed Tree Shape	16	25	6	70
Inch						
SG-1SVIDC	G11-00010	SG Burrs - Pointed Tree Shape	1/4	5/8	1/4	2
SG-3SVIDC	G11-00011	SG Burrs - Pointed Tree Shape	3/8	3/4	1/4	2-1/2
SG-3L6SVIDC	G11-00012	SG Burrs - Pointed Tree Shape	3/8	3/4	1/4	6-3/4
SG-43SVIDC	G11-00013	SG Burrs - Pointed Tree Shape	1/8	3/8	1/8	1-1/2
SG-5SVIDC	G11-00014	SG Burrs - Pointed Tree Shape	1/2	1	1/4	2-3/4
SG-5L6SVIDC	G11-00015	SG Burrs - Pointed Tree Shape	1/2	1	1/4	7

## SH BURRS

Flame Shape



Double-cut



### Dimensions

Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)
mm						
SH-41SVMDC	G13-00001	SH Burrs - Flame Shape	3	6.3	3	38
SH-1SVMDC	G13-00002	SH Burrs - Flame Shape	6	12.7	6	50
SH-2SVMDC	G13-00003	SH Burrs - Flame Shape	8	19	6	64
SH-5SVMDC	G13-00004	SH Burrs - Flame Shape	12.7	32	6	77
SH-6SVMDC	G13-00005	SH Burrs - Flame Shape	16	36	6	81
Inch						
SH-1SVIDC	G13-00006	SH Burrs - Flame Shape	1/4	1/2	1/4	2
SH-2SVIDC	G13-00007	SH Burrs - Flame Shape	5/16	3/4	1/4	2-1/2
SH-41SVIDC	G13-00008	SH Burrs - Flame Shape	1/8	1/4	1/8	1-1/2
SH-5SVIDC	G13-00009	SH Burrs - Flame Shape	1/2	1-1/4	1/4	3

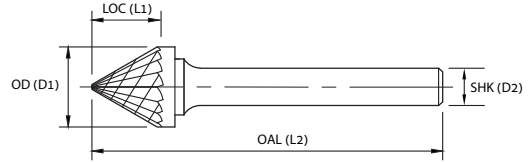


## SJ BURRS

60° Cone Shape



Double-cut



### Dimensions

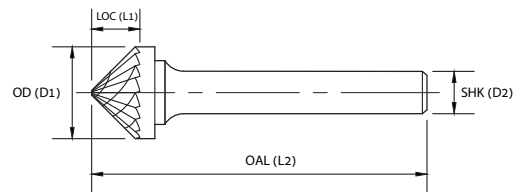
Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)
mm						
SJ-1SVMDC	G14-00001	SJ Burrs - 60° Cone Shape	6	4	6	50
SJ-3SVMDC	G14-00002	SJ Burrs - 60° Cone Shape	9.5	8	6	53
SJ-5SVMDC	G14-00003	SJ Burrs - 60° Cone Shape	12.7	11	6	56
SJ-6SVMDC	G14-00004	SJ Burrs - 60° Cone Shape	16	14.5	6	59.5

## SK BURRS

90° Cone Shape



Double-cut



### Dimensions

Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)
mm						
SK-1SVMDC	G15-00001	SK Burrs - 90° Cone Shape	6	3	6	50
SK-3SVMDC	G15-00002	SK Burrs - 90° Cone Shape	9.5	4.7	6	49.7
SK-5SVMDC	G15-00003	SK Burrs - 90° Cone Shape	12.7	6.3	6	51.3
SK-6SVMDC	G15-00004	SK Burrs - 90° Cone Shape	16	8	6	53

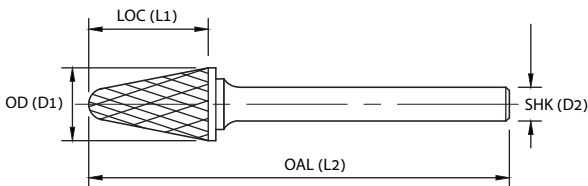
**SL BURRS**  
Radius Cone Shape



Double-cut



Aluminum-cut



Dimensions

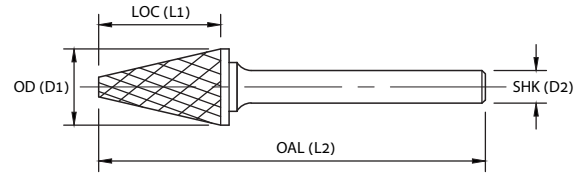
Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)	Angle DEG°
mm							
SL-42SVMDC	G12-00001	SL Burrs - Radius Cone Shape	3	12.7	3	38	8
SL-15SVMDC	G12-00002	SL Burrs - Radius Cone Shape	6	16	6	50	14
SL-2SVMDC	G12-00003	SL Burrs - Radius Cone Shape	8	22	6	67	14
SL-2SVMFMM	G12-00004	SL Burrs - Radius Cone Shape	8	22	6	67	14
SL-3SVMDC	G12-00019	SL Burrs - Radius Cone Shape	9.5	27	6	72	14
SL-3SVM6DC	G12-00005	SL Burrs - Radius Cone Shape	9.5	27	6	177	14
SL-4SVMFMM	G12-00006	SL Burrs - Radius Cone Shape	12.7	28	6	73	14
SL-4SVMDC	G12-00007	SL Burrs - Radius Cone Shape	12.7	28	6	73	14
SL-4SVM6DC	G12-00008	SL Burrs - Radius Cone Shape	12.7	28	6	178	14
SL-5SVMDC	G12-00009	SL Burrs - Radius Cone Shape	16	30	6	75	14
Inch							
SL-15VIDC	G12-00010	SL Burrs - Radius Cone Shape	1/4	5/8	1/4	2	14
SL-35VIDC	G12-00011	SL Burrs - Radius Cone Shape	3/8	1-1/16	1/4	2-13/16	14
SL-35VIFM	G12-00012	SL Burrs - Radius Cone Shape	3/8	1-1/16	1/4	2-13/16	14
SL-3L6VIDC	G12-00013	SL Burrs - Radius Cone Shape	3/8	1-1/16	1/4	7-1/16	14
SL-41SVIDC	G12-00014	SL Burrs - Radius Cone Shape	1/8	3/8	1/8	1-1/2	8
SL-4SVIDC	G12-00015	SL Burrs - Radius Cone Shape	1/2	1-1/8	1/4	3-1/64	14
SL-4SVIDFMM	G12-00016	SL Burrs - Radius Cone Shape	1/2	1-1/8	1/4	3-1/64	14
SL-4L6SVIDC	G12-00017	SL Burrs - Radius Cone Shape	1/2	1-1/8	1/4	7-1/8	14
SL-7SVIDFMM	G12-00018	SL Burrs - Radius Cone Shape	3/4	1-1/2	1/4	3-1/4	14

## SM BURRS

Pointed Cone Shape



Double-cut



### Dimensions

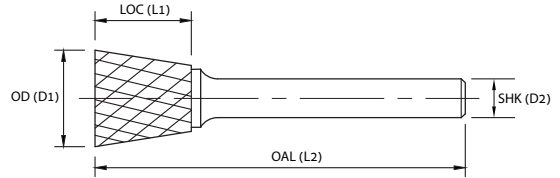
Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)	Angle DEG°
mm							
SM-42SVMDC	G17-00001	SM Burrs - Pointed Cone Shape	3	11	3	38	14
SM-43SVMDC	G17-00002	SM Burrs - Pointed Cone Shape	3	16	3	38	7
SM-1SVMDC	G17-00003	SM Burrs - Pointed Cone Shape	6	12.7	6	50	12
SM-2SVMDC	G17-00004	SM Burrs - Pointed Cone Shape	6	19	6	50	12
SM-4SVMDC	G17-00005	SM Burrs - Pointed Cone Shape	9.5	16	6	61	28
SM-5SVMDC	G17-00006	SM Burrs - Pointed Cone Shapes	12.7	22	6	67	28
Inch							
SM-1SVIDC	G17-00007	SM Burrs - Pointed Cone Shape	1/4	1/2	1/4	2	22
SM-41SVIDC	G17-00008	SM Burrs - Pointed Cone Shape	1/8	11/32	1/8	1-1/2	12
SM-4SVIDC	G17-00009	SM Burrs - Pointed Cone Shape	3/8	5/8	1/4	2-1/2	28
SM-43SVIDC	G17-00010	SM Burrs - Pointed Cone Shape	1/8	5/8	1/8	1-1/2	7
SM-5SVIDC	G17-00011	SM Burrs - Pointed Cone Shape	1/2	7/8	1/4	2-3/4	28

**SN BURRS**

Inverted Cone Shape



Double-cut



Dimensions

Ordering Code	Item Number	Description	OD (D1)	LOC (L1)	SHK (D20)	OAL (L2)	Angle DEG°	
			mm					
SN-42SVMDC	G16-00001	SN Burrs - Inverted Cone Shape	3	4	3	38	10	
SN-51SVMDC	G16-00002	SN Burrs - Inverted Cone Shape	6.3	6	3	44	10	
SN-2SVMDC	G16-00003	SN Burrs - Inverted Cone Shape	9.5	9.5	6	54.5	13	
SN-4SVMDC	G16-00004	SN Burrs - Inverted Cone Shape	12.7	12.7	6	57.7	28	
SN-6SVMDC	G16-00005	SN Burrs - Inverted Cone Shape	16	19	6	64	18	

# TROUBLESHOOTING

Challenge	Excessive Force	Heat From Rubbing Shank	Dull Flutes	Seized In / Against Workpiece	Tool Dropped	Poor Location in Collet	Worn Handpiece Bearings	Bent Shank	Poor Working Stability	Use Coarser Geometry	Use Finer Geometry	Use Double Cut or Chip Breaker Geometry	Soft Material - Lighten Feed	Increase RPMs	Decrease RPMs	Use Anti-stick Compound	Faster Feed Rate	Slower Feed	Abrasive Material	Poor Set-Up	Failure to Support / Engage Prior to RPM
Braze Failure	●	●	●	●	●																
Poor Hand Control						●	●	●	●		●	●								●	
Chipping				●	●				●					●							●
Carbide Fracture				●	●				●												
Plugging									●			●				●					
Handpiece Vibration														●	●		●	●		●	
Poor Workpiece Finish						●	●	●	●		●			●	●		●			●	
Poor Tool Life		●	●			●	●	●	●					●	●		●	●	●	●	●
Lack of Available Handpiece RPMs												●		●							
Work Hardening of Workpiece	●		●							●		●			●			●			
Bent Shanks of Long Series Burrs																				●	●

# SAFETY PRECAUTIONS

**01**

Exercise caution when handling sharp blades.

**02**

Wear proper gloves and use safety equipment on worksites.

**03**

Keep the work area clean and uncluttered.

**04**

Keep your hands free of grease and oil.

**05**

Discard blades when dull and do not sharpen blades.

**06**

Carefully wipe tools and blades after use.



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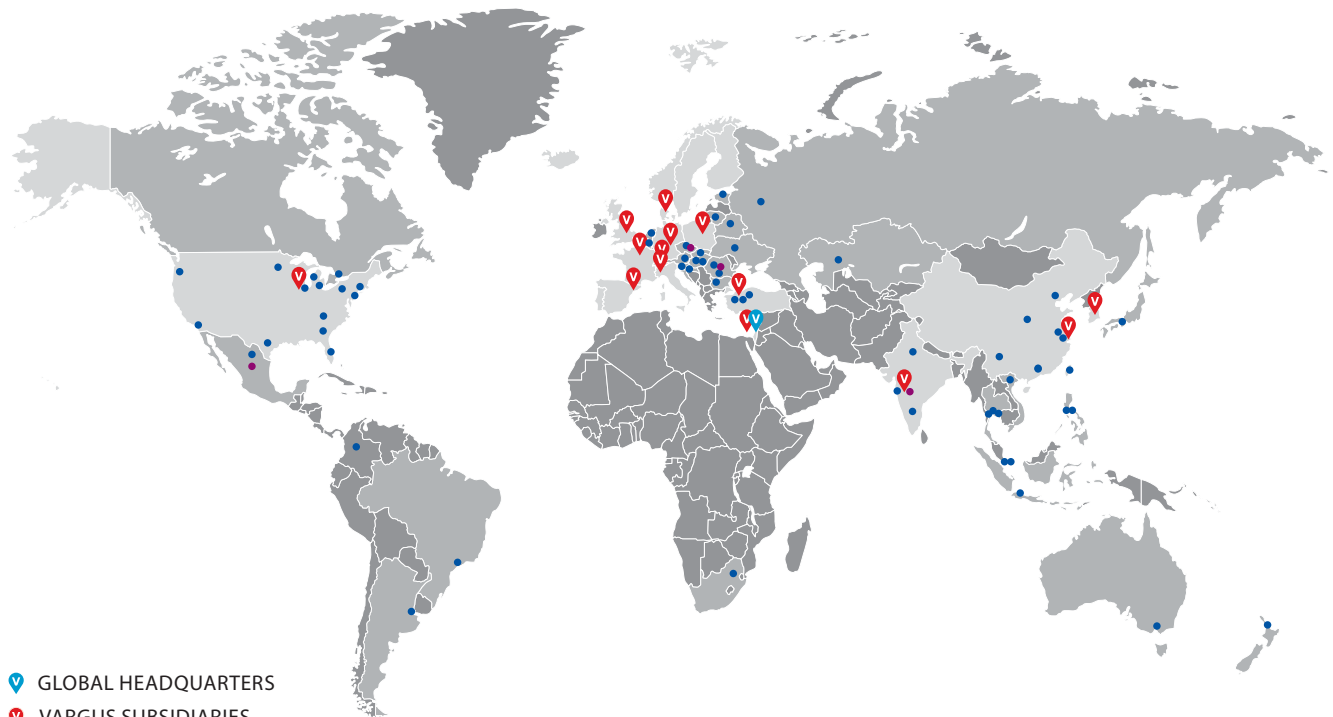
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