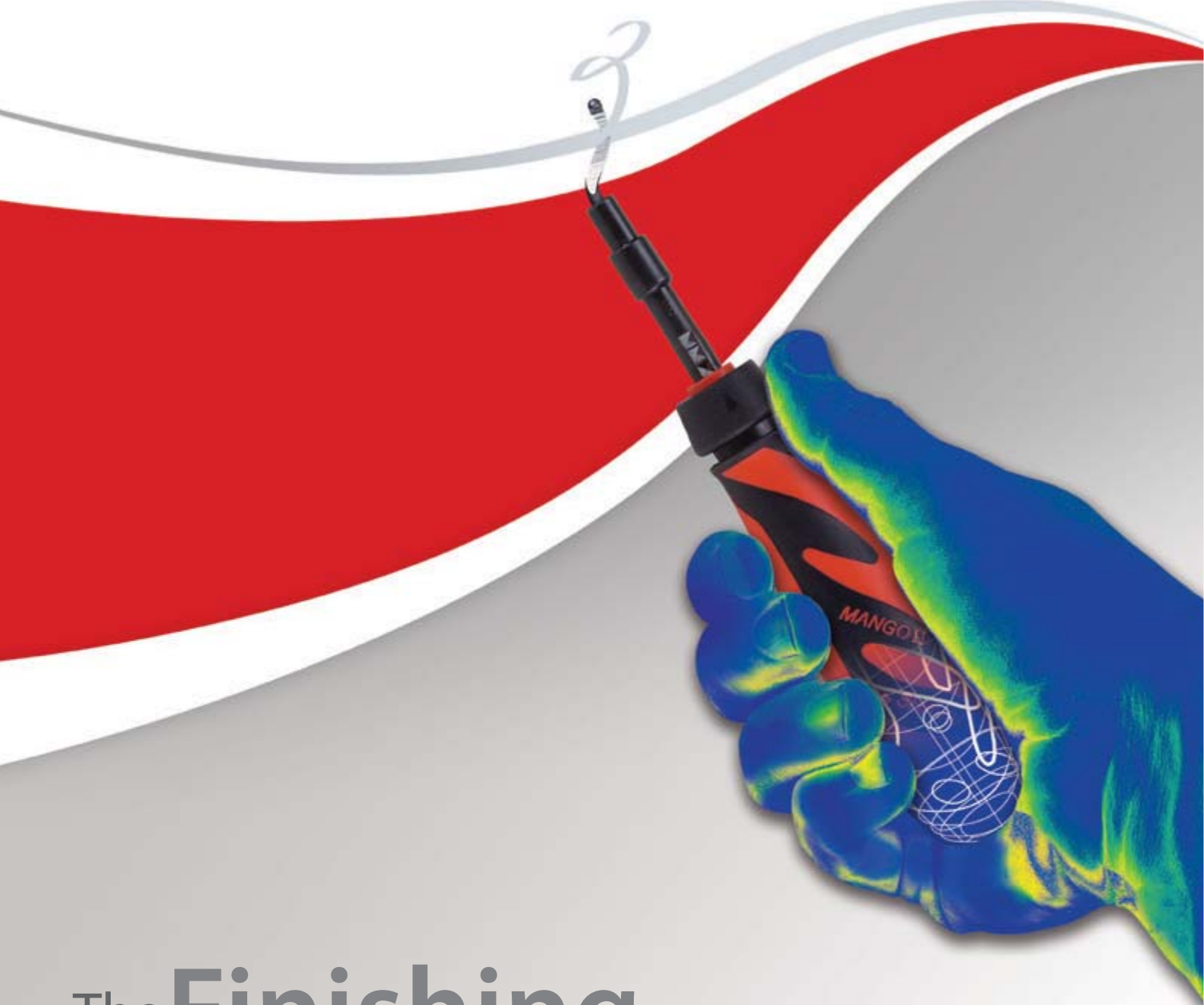


**SHAVIV**  
Leading Deburring Solutions

**vargus**  
NEUMO Ehrenberg Group



# The **Finishing** Touch



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

# SHAVIV by VARGUS

VARGUS Ltd., established in 1960, is a world leading developer, manufacturer and supplier of cutting and finishing tools to the metalworking and plastics industries. VARGUS is a member of the NEUMO Ehrenberg Group, a diversified multi-national organization headquartered in Germany. Our international manufacturing and marketing operations serve customers in more than 100 countries around the globe specializing in three major product lines: SHAVIV hand deburring tools, VARDEX thread turning and thread milling tools, and GROOVEX groove turning and groove milling tools.



See it in action

## The Complete Range of Deburring Solutions with SHAVIV's Ergonomic Handles

### **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.



Mango II Handle Ordering No.: 152-00019

### **mango II B/E** 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.



B10

Mango II B Handle Ordering No.: 152-00009



E100

Mango II E Handle Ordering 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.



E100

Mango Click E Handle Ordering No.: 152-00013

### **Classic Handle A**

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



Ordering No.: 152-00003

### **Handle A (Aluminium)**

Classic universal handle heavy-duty aluminum version. Accepts all Shaviv blade holders.



Ordering No.: 152-00005

### **Handle 1**

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



Ordering No.: 152-00026

### **HandyChuck Pin Vise**

Holds small files, drills, reamers, taps, mold polishing stones, wires, counter-sinks, etc. Grips objects with 1 mm (0.04") to 8 mm (0.32") diameter. Can be used with C50 & C60 scrapers. Useful for repairing and assembling watches, electrical appliances & miniature electronic equipment.



Ordering No.: 155-29057

# mango II Long-Reach Sets



The **Finishing Touch**

Mango IIB Extra-Close

Mango IIE Extra-Close

Mango II Long-Reach

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

- Works with all SHAVIV holders (see page 17)
- Simple holder mechanism
- Comfortable, ergonomic handle for standard-sized hands



Mango II Handle for long reach Ordering No.:152-00019

### 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.



B10

B

B20



Straight Edge Hole Edge

| Set Name       | Handle   | Holder | Blades  | Ordering No. |
|----------------|----------|--------|---------|--------------|
| Mango II Set B | Mango II | B      | B10,B20 | 155-90056    |

### Mango II Set E Heavy DeBurr

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



E100

E

E200

E300



Straight Edge Hole Edge Cross-Hole Both Edges

| Set Name       | Handle   | Holder | Blades          | Ordering No. |
|----------------|----------|--------|-----------------|--------------|
| Mango II Set E | Mango II | E      | E100,E200, E300 | 155-90065    |

### Mango II Set D The Sheet Cleaner

Perfect for sheet metal up to 0.12" thick (3 mm). Blade deburrs both sides of sheet in one pass. Blade also functions as a surface cleaner.



D80C

D



Flat Surface Sheets

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

| Set Name       | Handle   | Holder | Blades | Ordering No. |
|----------------|----------|--------|--------|--------------|
| Mango II Set D | Mango II | D      | D80C   | 155-90064    |
| Shaviv Set D   | Classic  | D      | D80C   | 155-29068    |

### Mango II Set C The Scraper

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



Straight Edge Hole Edge Hole Back-Edge Flat Surface Hole Inner Surface

| Set Name       | Handle   | Holder | Blades | Ordering No. |
|----------------|----------|--------|--------|--------------|
| Mango II Set C | Mango II | C      | C42    | 155-90062    |

### Mango II Set FR Ratchet-Burr for ID

Features FR ratchet holder, ideal for rotational chamfering, even when work-space is limited. Inside diameter (ID) up to 0.79" (20mm).



F20

FR



Hole Edge

| Set Name        | Handle   | Holder | Blades | Ordering No. |
|-----------------|----------|--------|--------|--------------|
| Mango II Set FR | Mango II | FR     | F20    | 155-90072    |
| Shaviv Set FR   | Classic  | FR     | F20    | 155-29071    |
| Aluminum Set FR | Aluminum | FR     | F20    | 155-00223    |

### Mango II Set F The Countersink

Powerful tool, excellent for chamfering and countersinking. Use for hole-edge applications with up to 0.79" (20mm) diameter.



F20

F



Hole Edge

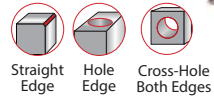
| Set Name       | Handle   | Holder | Blades | Ordering No. |
|----------------|----------|--------|--------|--------------|
| Mango II Set F | Mango II | F      | F20    | 155-90071    |
| Shaviv Set F   | Classic  | F      | F20    | 155-29070    |
| Aluminum Set F | Aluminum | F      | F20    | 155-00222    |

# mango II Long Reach and Specialty Sets



## Mango II Set M\* The 2 in 1

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



| Set Name       | Handle   | Holder | Blades                          | Ordering No. |
|----------------|----------|--------|---------------------------------|--------------|
| Mango II Set M | Mango II | M      | B10, B20, B30, E100, E111, E200 | 155-00199    |
| Shaviv Set M   | Classic  | M      | B10, B20, B30, E100, E111, E200 | 155-29178    |

## Mango II Set K\* Surface Scraper

The original industrial surface scraper. Pulling/pushing action makes it perfect for smoothing metal and plastic surfaces as well as scraping paint and varnishes.



Flat Surface



| Set Name       | Handle   | Holder | Blades | Key | Ordering No. |
|----------------|----------|--------|--------|-----|--------------|
| Mango II Set K | Mango II | K      | K10C   | K   | 155-00207    |
| Shaviv Set K   | Classic  | K      | K10C   | K   | 155-29075    |

## Mango II Set U

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



| Set Name       | Handle   | Holder | Blades                         | Ordering No. |
|----------------|----------|--------|--------------------------------|--------------|
| Mango II Set U | Mango II | U      | U1 (BUS1) U31(BUS31) U4 (BUS4) | 155-00221    |
| Shaviv Set U   | Classic  | U      | U1 (BUS1) U31(BUS31) U4 (BUS4) | 155-29119    |

## Mango II Set L

External Curved-Edge Cleaner

Tool set for the deburring of external curved edges, for pipes and tubes.



| Set Name                | Handle   | Holder | Blades | Ordering No. |
|-------------------------|----------|--------|--------|--------------|
| Mango II Set L          | Mango II | L      | L10    | 155-00220    |
| Shaviv ExcaliBurr Set L | Classic  | L      | L10    | 155-29076    |

## Mango II Set G Slot Edge Cleaner

Ideal for deburring and cleaning edges of internal & external keyways and slots up to 0.6" (15 mm) wide. Blade features 8 cutting edges.



Slot/ Keyways

| Set Name       | Handle   | Holder | Blades | Ordering No. |
|----------------|----------|--------|--------|--------------|
| Mango II Set G | Mango II | G      | G10    | 155-90074    |
| Shaviv Set G   | Classic  | G      | G10    | 155-29072    |

## 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 1" (26 mm).



Outer Edge

| Set Name              | Handle   | Holder | Blades | Ordering No. |
|-----------------------|----------|--------|--------|--------------|
| Mango II Set Burr-Ex  | Mango II | FR     | F26X   | 155-90073    |
| Shaviv Set Burr-Ex    | Classic  | FR     | F26X   | 155-29146    |
| Aluminium Set Burr-Ex | Aluminum | FR     | F26X   | 155-00224    |

## Mango II Set Burr-Bi\* Heavy-Duty Sheet Cleaner

For heavy-duty deburring of materials with single or double straight edges up to 0.56" (14 mm) thick. Holder can take two R10, R20 or R30 blades for arc-shaped finishes on workpieces up to 0.63" (16 mm) thick. Handguard attached for worker safety.



R10

"A" side for spiral chips

"B" side for powdery chips



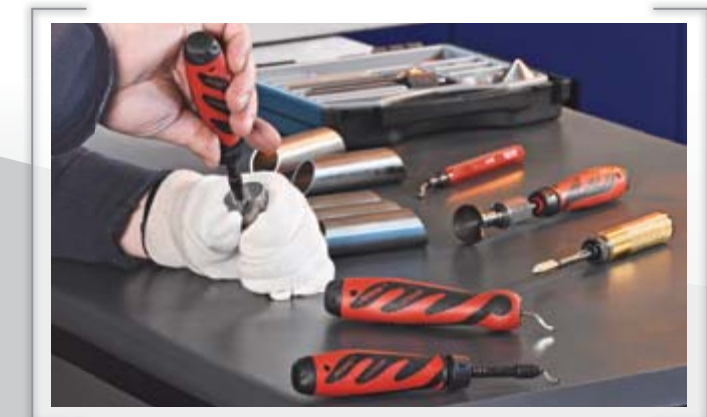
Sheets



Straight Edge



| Set Name             | Handle   | Holder | Blades  | Key | Ordering No. |
|----------------------|----------|--------|---------|-----|--------------|
| Mango II Set Burr-Bi | Mango II | BR     | R10 x 2 | BR  | 155-00206    |
| Shaviv Set Burr-Bi   | Classic  | BR     | R10 x 2 | BR  | 155-29140    |



# mango II Extra Close Sets and Bonus Packs

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 IIB Handle 152-00009

Mango IIE Handle 152-00016

## Mango IIB Sets For multi-purpose B blades



All sets contain the Mango IIE extra-close handle and a variety of blades for deburring materials with spiral or powdery chips.



Straight Edge Hole Edge Deburrs Steel, Aluminium, Copper, Brass, Cast Iron and Plastics.



## Mango IIE Sets For heavy-duty E blades

### Mango IIB+1



### Mango IIB+2



### Mango IIB+4



| Set Name      | Handle    | Blades             | Ordering No. |
|---------------|-----------|--------------------|--------------|
| Mango IIB + 1 | Mango IIB | B10                | 155-90058    |
| Mango IIB + 2 | Mango IIB | B10, B20           | 155-90060    |
| Mango IIB + 4 | Mango IIB | B10, B11, B20, B25 | 155-90061    |

### Mango IIE+1



### Mango IIE+3



### Mango IIE+5



| Set Name3     | Handle    | Blades                       | Ordering No. |
|---------------|-----------|------------------------------|--------------|
| Mango IIE + 1 | Mango IIE | E100                         | 155-90066    |
| Mango IIE + 3 | Mango IIE | E100, E200, E300             | 155-90068    |
| Mango IIE + 5 | Mango IIE | E100, E111, E120, E200, E300 | 155-00162    |

## 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

## 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



**FREE Handle**

HSS 10 X B10  
HSS 10 X E100  
Cobalt 10 X B10  
Cobalt 10 X E100

- 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



| Ordering No. | Bonus Pack          |
|--------------|---------------------|
| 155-00177    | 10 x B10 (HSS)      |
| 155-00178    | 10 x E100 (HSS)     |
| 155-00183    | 10 x B10S (Cobalt)  |
| 155-00179    | 10 x E100S (Cobalt) |

| Ordering No. | Bonus Pack                     |
|--------------|--------------------------------|
| 155-00180    | 10 x B10 (HSS) + Holder B      |
| 155-00181    | 10 x E100 (HSS) + Holder E     |
| 155-00184    | 10 x B10S (Cobalt) + Holder B  |
| 155-00182    | 10 x E100S (Cobalt) + Holder E |

# Products

## 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



Contains: Mango II Handle, Holder B, Holder C, B10, B11, B20, B30, B60, B70, C40, C Key  
154-00034

### Deburring & Scraping

Heavy Duty



Contains: Mango II Handle, Holder E, Holder C, C42, E100P, E111, E200, E300, E600, E700, C Key  
154-00036

### Deburring & Deflashing



Contains: Mango II Handle, Holder B, Holder E, B10, B11, B25, E111, E250, E400, E707 and Cera Burr Ceramic Blade Tool  
154-00040

### Deburring & Chamfering



Contains: Mango II Handle, Holder E, Holder F, E100S, E111, E200, E300, E601, F20, F26X  
154-00033

### Filing & Deburring



Contains: MB2020E Handle, 5 different shape diamond coated files, E100S, E400  
154-00030

### Deburring & Sheet Cleaning



Contains: Mango II Handle, Holder D, Holder E, D80C, D82C, E100, E111, E200, E300, E700  
154-00035

### TiN Coated

For Exotic Materials

Contains:  
B Blades: B10P, B11P, B20P, B30P  
E Blades: E100P, E111P, E200P, E300P  
B & E Holders  
Aluminum Handle  
154-00045



## AEROBURR Set

### Deburring Sets for the Aviation / Aerospace / Medical Industries

Standard Duty Applications

#### Set B11P



Mango II Handle  
Holder B  
5 X B11P (coated) blades  
155-00231

Heavy Duty Applications

#### Set E111P



Mango II Handle  
Holder E  
5 X E111P (coated) blades  
155-00232



- Customized for the unique applications required by the aerospace industries, excellent for electronic and medical applications
- Designed to deburr curves and small holes as small as 1/16" (1.5 mm)
- Blades are TiN (Titanium Nitride) coated to face the challenges of deburring various materials such as steel, aluminum, copper, stainless steel, and plastics
- TiN coated blades provide significantly increased tool life over standard non-coated blades
- Great for other applications such as dies, molds, automotive and R&D

# Products

**NEW**

## Shaviv Golden Flex Sets

### Golden Flex Set B

For Standard Deburring

Contains:

- Aluminum Handle
- Blade Holder B
- 5 Different Pairs of TiN Coated Multi-purpose B Blades: B10Px2, B11Px2, B12Px2, B20Px2, B30Px2



155-00258

### Golden Flex Set E

For Heavy Duty Deburring

Contains:

- Aluminum Handle
- Blade Holder E
- 5 Different Pairs of TiN Coated Multi-purpose E Blades: E100Px2, E110Px2, E111Px2, E200Px2, E300Px2



155-00259

## Countersink Kits

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.

**FREE** deburring Finishing Bit included!



154-00031



154-00032



## Tri-Flute Chamfering Kit

| Tool        | For holes up to<br>Ø mm      | For holes up to<br>Ø in |
|-------------|------------------------------|-------------------------|
| FC20        | 20mm                         | 13/16"                  |
| FC16        | 16mm                         | 5/8"                    |
| FC12        | 12mm                         | 1/2"                    |
| <b>FREE</b> | Finishing Bit with B12 blade |                         |



## Zero Flute Chamfering Kit

| Tool        | Hole Range<br>Ø mm           | Hole Range<br>Ø in |
|-------------|------------------------------|--------------------|
| FD20        | 7-20mm                       | 9/32"-13/16"       |
| FD13        | 5-13mm                       | 3/16"-1/2"         |
| FD08        | 2-8mm                        | 5/64"-5/16"        |
| <b>FREE</b> | Finishing Bit with B12 blade |                    |

## New Individual Tri-Flute Countersinks

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



Shaviv's Tri-Flute Countersinks can be used with either the 1/4" BIT HOLDER handle (156-0003) or any power tool.

## Rotary Scraper Series For High Precision Work

- Triangular rotary scrapers specially designed for high precision and accurate work
- Suitable for air tools with high RPM
- Made from top quality HSS, strong yet flexible
- Excellent for a variety of raw materials such as metals, ceramics, and plastics
- Used in the aviation, electronics, jewelry, molding and other industries

| Blade | Shank Diameter | Tip Angle | Ordering Code |
|-------|----------------|-----------|---------------|
| C81-3 | 3.0 mm         | 5°        | 151-00129     |
| C82-3 | 3.0 mm         | 10°       | 151-00130     |





## 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 Handle E 152-00013

## Mango Click + 12 E100



**mango**  
Click n' Go



155-29229

Simple-to-use handle, just Click n' Go! Designed for larger hands.

## Mango Click Set E5



| Set Name           | Handle        | Blades                       | Ordering No. |
|--------------------|---------------|------------------------------|--------------|
| Mango Click Set E5 | Mango Click E | E100, E111, E120, E200, E300 | 155-00161    |

## Mango Click Set E3



| Set Name           | Handle        | Blades           | Ordering No. |
|--------------------|---------------|------------------|--------------|
| Mango Click Set E3 | Mango Click E | E100, E200, E300 | 155-90076    |

## Set Finishing Bit

Convenient finishing tool combines screwdriver bit holder and deburring bit



**Type D**  
Drive: 1/4" hexagon  
DIN 3126-C6, 3  
ISO 1173

Bit with deburring blade fits in 1/4" bit holder. Great tool for industrial use, electronics, plumbers, installers and DIY

Finishing Bit Set: 1 Screwdriver bit holder  
1 Finishing-bit



| Set Name          | Handle                        | Blades        | Ordering No. |
|-------------------|-------------------------------|---------------|--------------|
| Set Finishing Bit | Screwdriver Bit Holder Handle | Finishing Bit | 156-00003    |

## Finishing Bit 4 Pack

A new generation finishing tool deburring bit

- Bit with deburring blade
- Fits in 1/4" bit holder
- Type D  
Drive: 1/4" hexagon  
DIN 3126-C6, 3, ISO 1173



| Set Name             | Blades           | Ordering No. |
|----------------------|------------------|--------------|
| Finishing Bit 4 Pack | 4 Finishing Bits | 156-00001    |

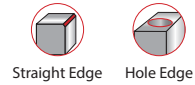
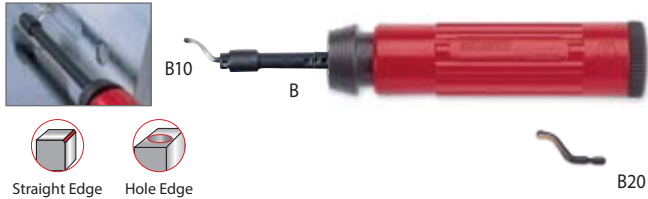


# Classic Sets



## Shaviv 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.

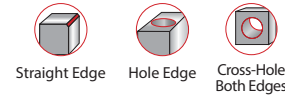
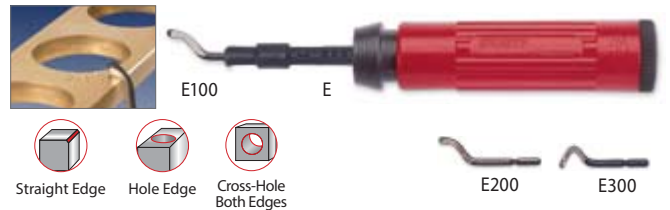


B20

| Set Name     | Handle           | Holder | Blades   | Ordering No. |
|--------------|------------------|--------|----------|--------------|
| Shaviv Set B | Classic Handle A | B      | B10, B20 | 155-29065    |

## Shaviv Set E\* Heavy DeBurr

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

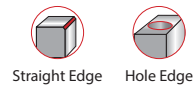
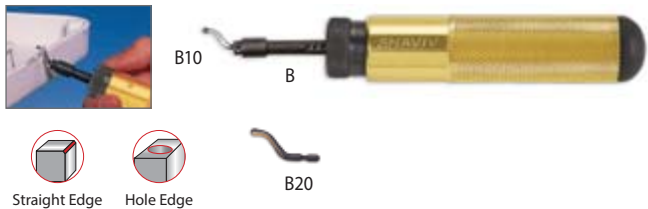


E200 E300

| Set Name     | Handle           | Holder | Blades           | Ordering No. |
|--------------|------------------|--------|------------------|--------------|
| Shaviv Set E | Classic Handle A | E      | E100, E200, E300 | 155-29069    |

## SHAVIV Set B Aluminum\* The Workhorse

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

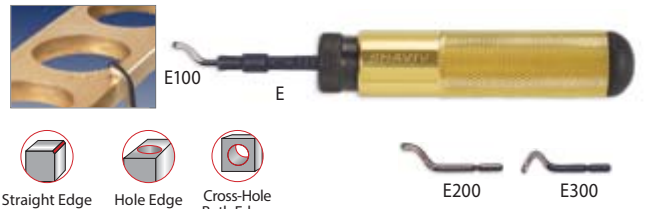


B20

| Set Name              | Handle   | Holder | Blades   | Ordering No. |
|-----------------------|----------|--------|----------|--------------|
| Shaviv Set B Aluminum | Aluminum | B      | B10, B20 | 155-29066    |

## SHAVIV Set E Aluminum\* Heavy DeBurr

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

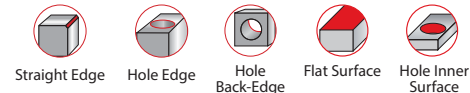
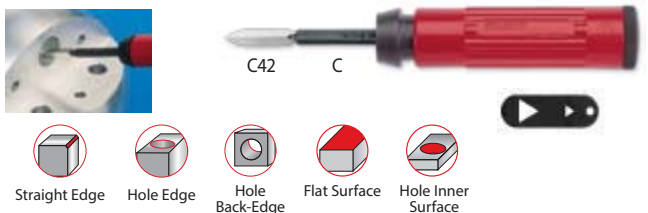


E200 E300

| Set Name              | Handle   | Holder | Blades           | Ordering No. |
|-----------------------|----------|--------|------------------|--------------|
| Shaviv Set E Aluminum | Aluminum | E      | E100, E200, E300 | 155-00019    |

## Shaviv Set C\* The Heavy Scraper

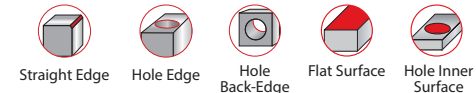
The classic universal handle. Accepts all Shaviv blade holders. To store spare blades inside handle, simply unscrew the back cap.



| Set Name     | Handle           | Holder | Blades | Ordering No. |
|--------------|------------------|--------|--------|--------------|
| Shaviv Set C | Classic Handle A | C      | C42    | 155-29067    |

## Set HC\* HandyChuck

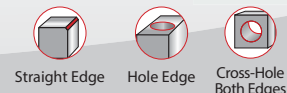
Delivers pin vise versatility for finishing & scraping applications. Also used for gripping miniature files, drills, reamers, taps, wires, countersinks and other small objects - 0.04"-0.32" (1-8 mm) in diameter. Handy for assembling electronic components and watch repair.



| Set Name       | Handle              | Blades | Ordering No. |
|----------------|---------------------|--------|--------------|
| Shaviv Set HC5 | HandyChuck Pin Vise | C50    | 155-00163    |
| Shaviv Set HC6 | HandyChuck Pin Vise | C60    | 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.



E200 E300

| Set Name     | Handle   | Blades           | Ordering No. |
|--------------|----------|------------------|--------------|
| Shaviv Set 1 | Handle 1 | E100, E200, E300 | 155-29078    |

## Swivel Blade



# Economical Deburring Solutions - Glo-Burr Sets



## The Rainbow Series Assortments

### 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. Deburrs Steel, Aluminium, Copper and Plastics.



Straight Edge Hole Edge

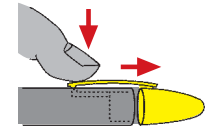
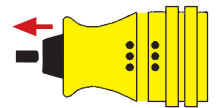
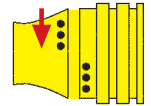


| Glo-Burr                          | Ordering No. |
|-----------------------------------|--------------|
| Glo-Burr B Assortment Kit - 48 pc | 154-29136    |
| Glo-Burr E Assortment Kit - 48 pc | 154-00013    |

## How to Replace the Blade



To replace blades, turn the handle until the dots are aligned.



- Lightweight, easy-to-grip tool made from specially engineered reinforced plastic.
- Designed for deburring of steel, aluminum and plastic.
- Glo-Burr B: This versatile handle is supplied with the popular B10 blade.
- Glo-Burr E: This versatile handle is supplied with the popular E100 blade.
- Blades are replaceable. Glo-Burr B and E handles work with B and E series blades.
- Features a convenient pocket clip.

## The Rainbow Series

### GLO-BURR B

Popular, easy-to-grip deburring tools



Straight Edge Hole Edge

Strong, yet lightweight. Features convenient pocket clip and blade storage.

**Glo-Burr B** - Supplied with B10 blade, holds other popular B blades.



Deburrs Steel, Aluminium, Copper and Plastics.

| Glo-Burr   | Blue      | Yellow    | Green     | Red       |
|------------|-----------|-----------|-----------|-----------|
| Glo-Burr B | 155-29134 | 155-29154 | 155-29152 | 155-29153 |

## The Rainbow Series

### GLO-BURR E

Popular, easy-to-grip deburring tools



Straight Edge Hole Edge

Strong, yet lightweight. Features convenient pocket clip and blade storage.

**Glo-Burr E** - Supplied with heavy-duty E100 blade, holds other popular E blades.



Deburrs Steel, Aluminium, Copper and Plastics.

| Glo-Burr   | Blue      | Yellow    | Green     | Red       |
|------------|-----------|-----------|-----------|-----------|
| Glo-Burr E | 155-29133 | 155-29157 | 155-29155 | 155-29156 |

## Glo-Burr Handy Kits

### Glo-Burr Handy Kit 4B

**A tool 4 every deburring job**

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



### Glo-Burr Handy Kit 4E

**A tool 4 every deburring job**

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



| Set Name     | Handle   | Blades             | Ordering No. |
|--------------|----------|--------------------|--------------|
| Handy Kit 4B | Glo-Burr | B10, B20, B30, B11 | 154-90042    |

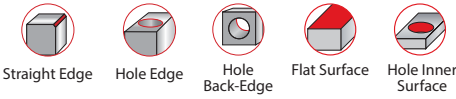
| Set Name     | Handle   | Blades                 | Ordering No. |
|--------------|----------|------------------------|--------------|
| Handy Kit 4E | Glo-Burr | E100, E200, E300, E111 | 154-29144    |

# Scrape-Burrs and Other Compact Tools

## 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.



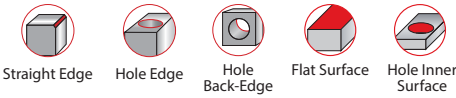
C42

| Set Name       | Handle   | Blades | Ordering No. |
|----------------|----------|--------|--------------|
| Scrape-Burr 42 | Glo-Burr | C42    | 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.



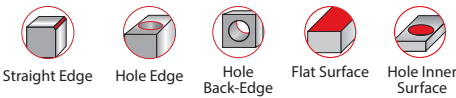
C40

| Set Name       | Handle   | Blades | Ordering No. |
|----------------|----------|--------|--------------|
| Scrape-Burr 40 | Glo-Burr | C40    | 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.



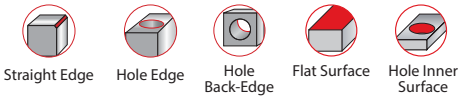
E400

| Set Name         | Handle   | Blades | Ordering No. |
|------------------|----------|--------|--------------|
| Scrape-Burr E400 | Glo-Burr | E400   | 155-90080    |

## Scrape-Burr Kit 3+1



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



C42

C40

E400

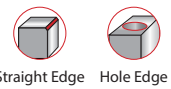
B10

| Set Name        | Handle   | Blades              | Ordering No. |
|-----------------|----------|---------------------|--------------|
| Scrape-Burr Kit | Glo-Burr | B10, C40, C42, E400 | 154-90081    |

## UNIBURR Popular, Slim-Grip Deburring Tools

### UB2 DisposaBurr

Disposable. Comes with B10 blade.



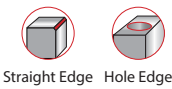
Ordering No.: 155-29190

Strong, yet lightweight. Features convenient pocket clip.  
Deburr Steel, Aluminium, Copper and Plastics. Also available in additional colors.

| UNIBURR | Black     | Blue      | Green     | Red       |
|---------|-----------|-----------|-----------|-----------|
| UB2     | 155-00168 | 155-29187 | 155-00169 | 155-29081 |

### UB1 DisposaBurr

Disposable. Comes with heavy-duty E100 blade.



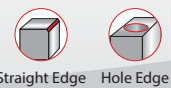
Ordering No.: 155-29080

Strong, yet lightweight. Features convenient pocket clip.  
Deburr Steel, Aluminium, Copper and Plastics. Also available in additional colors.

| UNIBURR | Black     | Blue      | Green     | Red       |
|---------|-----------|-----------|-----------|-----------|
| UB1     | 155-00165 | 155-29181 | 155-00166 | 155-29184 |

### UB2000

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



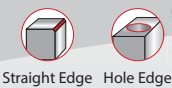
Ordering No.: 155-29192

Strong, yet lightweight. Features convenient pocket clip.  
Deburr Steel, Aluminium, Copper and Plastics. Also available in additional colors.

| UNIBURR | Black     | Blue      | Green     | Red       |
|---------|-----------|-----------|-----------|-----------|
| UB2000  | 155-29202 | 155-29107 | 155-29203 | 155-29191 |

### MB2000

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



Ordering No.: 155-29161

Strong, yet lightweight. Features convenient pocket clip.  
Deburr Steel, Aluminium, Copper and Plastics. Also available in additional colors.

| UNIBURR | Black     | Blue      | Green     | Red       |
|---------|-----------|-----------|-----------|-----------|
| MB2000  | 155-29158 | 155-29092 | 155-29159 | 155-29160 |

# Ceramic Tools



## Cera-Burr Ceramic Blade Tools



Straight Edge



Hole Edge



Slot/ Keyways



Sheets



Mold Gate Trim

| Set Name            | Handle   | Blades    | Ordering No. |
|---------------------|----------|-----------|--------------|
| Cera-Burr           | Glo-Burr | Permanent | 155-90084    |
| Cera-Burr Curve Q11 | Glo-Burr | Permanent | 155-00239    |

Ceramic Tools for deflashing plastics and deburring soft metals. New curved blades to reach arched and angled areas. High quality ceramic blades affixed on strong, lightweight handle. The ideal tools to 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

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



Straight Edge



Flat Surface



Flip blade for 2 types of jobs:



Side 1: Surface cleaner



Side 2: Sheet edge cleaner



Free utility blade provided with set

| Set Name        | Handle         | Blades | Ordering No. |
|-----------------|----------------|--------|--------------|
| Set Ceramix Q10 | Ceramic Handle | Q10    | 155-29238    |

## CERAMIX Curved Set Q12

Heavy-Duty Handle with Ceramic Q11 Blade

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



Straight Edge



Flip blade for 2 types of jobs:



Side 1: Curved edge cleaner



Side 2: Sheet edge cleaner

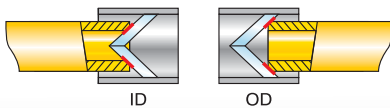


Free utility blade provided with set

| Set Name        | Handle         | Blades | Ordering No. |
|-----------------|----------------|--------|--------------|
| Set Ceramix Q12 | Ceramic Handle | Q11    | 155-00238    |

## 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.



ID

OD



Metal



Plastic



Outer Edge

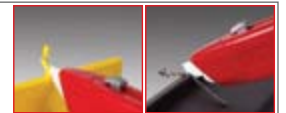


Inner Edge

- Use for aluminum, copper and brass tubing
- Plum-Burr Metal - Tubing range: 1/4" to 1 5/8" (6 mm - 41 mm)
- Plum-Burr Plastic - Tubing range: 3/16" to 1 1/2" (4.8 mm - 38 mm)

| Set Name          | Ordering No. |
|-------------------|--------------|
| Plum-Burr Metal   | 155-90082    |
| Plum-Burr Plastic | 155-90083    |

## CERAMIX Blades



Side 2

Cleans up to 6 mm (0.236") sheets

Side1

Surface cleaner

Blade Q10

Cleans up to 4 mm (0.157") sheets

Side 2

Cleans up to 6 mm (0.236") sheets

Side1

Cleans curved edges & small ridges

Blade Q11

Cleans up to 4 mm (0.157") sheets

| Blades Name/Description  | Blades | Ordering No. |
|--------------------------|--------|--------------|
| Blade Ceramix Q10        | Q10    | 151-29236    |
| Ceramix Curved Blade Q11 | Q11    | 151-00132    |

# Multi-Purpose Kits

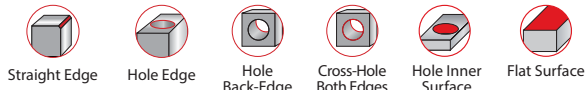
## Top 3 Mango II Starter Kit

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. Contains:

- \* Mango II Handle
- \* Holders - B, C, & E
- \* Blades - B10, B20, B30, B50, B60, C40, E100, & E300



**Top 3 Mango II Starter Kit** Ordering No.: 154-90085



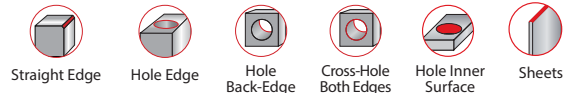
## Kit Classic KPC2 The Favorite 5

Most popular sets, provided in one handy kit. Contains:

- \* Set B: The Workhorse
  - \* Set C: The Scraper
  - \* Set D: The Sheet Cleaner
  - \* Set E: The Heavy Deburr Set
  - \* Set F: The Countersink
- Note: Each set is supplied with the Classic Handle A.



**Classic KPC2** Ordering No.: 154-29060

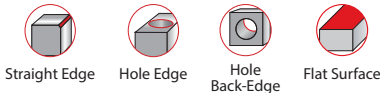


## Kit TD Tool & Die Maker's Kit

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

Contains:

- \* UF1 - Flat diamond coated file
- \* US1 - Triangular scraper
- \* US2 - Flat scraper
- \* US3 - Round scraper
- \* US4 - Hooked corner scraper
- \* UB38 - Miniature rotational deburring tool for min. hole diameter 0.08" (2 mm)



|        |                         |
|--------|-------------------------|
| UF1    | Ordering No.: 155-00051 |
| US1    | Ordering No.: 155-00156 |
| US2    | Ordering No.: 155-00173 |
| US3    | Ordering No.: 155-00174 |
| US4    | Ordering No.: 155-00175 |
| UB38   | Ordering No.: 155-29084 |
| Kit TD | Ordering No.: 154-29079 |

## Kit U Ultra-Fine Finish

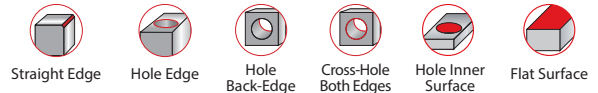
Ultra-fine finish kit for precision workpieces.

Contains:

- \* Aluminum Handle
- \* Non-rotating U Holder
- \* Rotating B Holder
- \* Four B blades for rotational deburring - B10, B11, B20 & B30
- \* Four interchangeable U scrapers - BUS1, BUS2, BUS31 & BUS4
- \* E500C scriber



**Kit U** Ordering No.: 154-29228



## Kit Classic KWC

### The Universal Box - Plastic Case

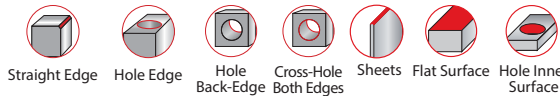
Excellent all-around deburring kit for your workshop. You get all the tools you need for 1000+ applications.

- Contains:
- \* Classic Handle A
  - \* Holders - B, C, D, E & F
  - \* Blades - B10, B20, B30, B50, B60, B70, C40, C42, D80C, E100, E200, E300, E350, E600 & F20



**Classic KWC Plastic Case** Ordering No.: 154-00008

**Mango II Kit KWC** Ordering No.: 154-00024



## Kit KPA Mango II Plastics Deflashing

The perfect, complete kit for deflashing plastics.

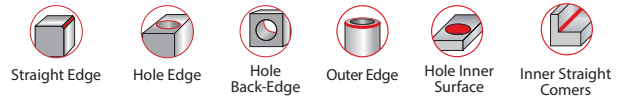
Contains:

- \* Mango II Handle
  - \* UB38 deburring tool
  - \* Holders - B, E, G3 & LP
  - \* Blades - B12, B25, E110, E700, G30C & L10
- Note: Also available with Classic Handle A.



**Mango II KPA** Ordering No.: 154-00037

**Classic KPA** Ordering No.: 154-00012



## TD Interchangeable Kit

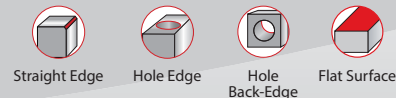
Replaceable blades now available for Shaviv's professional line of miniature deburring and scraping tools for the dies and molds industry.

Contains:

- \* Aluminum Handle
- \* 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
- \* Non-rotating U Holder



**TD Interchangeable Kit** Ordering No.: 154-00046



## Universal Sheet Cleaner Kit

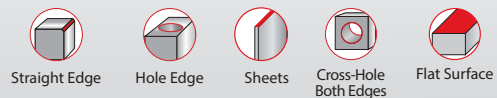
Perfect for a wide variety of deburring applications including deburring sheets made of practically any material: metal, plastic, acrylic, etc. Removes ragged edges from one side at a time or both sides at once.

Contains:

- \* Mango II Handle
- \* Holders - B, BR, D, D5 & E
- \* Blades - B10, B20, B30, B70, E100, E200, E300, D80C, D82C, D85, 2 x R10 & 2 x R30
- \* Handguard



**Sheet Cleaner Kit** Ordering No.: 154-00038























# Blade Index

| Blade Name | Ordering Number | Description                                                                                        | Blade<br>(Work Direction Shown) | Applications  |           |            |                       |                |                    |              |       |             |                        |       | Materials |        |       |           |                 |                |          |                 |   |   |   |  |
|------------|-----------------|----------------------------------------------------------------------------------------------------|---------------------------------|---------------|-----------|------------|-----------------------|----------------|--------------------|--------------|-------|-------------|------------------------|-------|-----------|--------|-------|-----------|-----------------|----------------|----------|-----------------|---|---|---|--|
|            |                 |                                                                                                    |                                 | Straight Edge | Hole Edge | Outer Edge | Cross-Hole Both Edges | Hole Back-Edge | Hole Inner Surface | Flat Surface | Sheet | Slot/Keyway | Inner Straight Corners | Steel | Aluminum  | Copper | Brass | Cast Iron | Stainless Steel | Hardened Steel | Plastics | Carbide & Glass |   |   |   |  |
| B1         | 151-29215       | Tough, long-life cobalt blade. N1 geometry.                                                        |                                 | ●             | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                |          | ●               | ● |   |   |  |
| B-N1       | 151-29207       | HSS. N1 geometry.                                                                                  |                                 | ●             | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                |          |                 |   | ● |   |  |
| B10        | 151-29212       | HSS. Deburrs 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. Deburrs holes with min. diameter 0.08" (2mm).                                     |                                 | ●             | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                |          |                 |   | ● |   |  |
| 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.                                              |                                 | ●             | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                |          |                 |   | ● |   |  |
| 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.                               |                                 | ●             | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                |          |                 |   | ● |   |  |
| B30        | 151-29023       | Simultaneously deburrs the inside and outside of holes up to 0.16" (4 mm) thick.                   | ★                               |               |           |            | ●                     |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                |          |                 |   | ● |   |  |
| B30P       | 151-29024       | PVD TiN coated for high wear resistance. B30 geometry.                                             |                                 |               |           |            | ●                     |                |                    |              |       |             |                        |       |           | ●      | ●     |           |                 |                |          |                 |   | ● |   |  |
| B32        | 151-29025       | Rotates clockwise & counterclockwise. B30 geometry.                                                |                                 |               |           |            | ●                     |                |                    |              |       |             |                        |       |           |        |       |           | ●               | ●              |          |                 |   | ● |   |  |
| B50C       | 151-29026       | Carbide tipped scribe. Can be reground.                                                            |                                 |               |           |            |                       |                |                    |              | ●     |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |
| B60        | 151-29027       | HSS. Removes burrs from back edge of holes up to 0.78" (20 mm) thick.                              |                                 |               |           |            | ●                     |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                |          |                 |   | ● |   |  |
| B70        | 151-29028       | Carbide tipped. Deburrs sheetmetal up to 0.14" (3.5 mm) thick.                                     |                                 |               |           |            |                       |                |                    |              | ●     |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |
| C40        | 151-29029       | Small, 0.16" (4 mm), triangular HSS scraper for precision work.                                    | ★                               |               |           |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |
| C42        | 151-29030       | Standard size, 0.31" (8 mm), triangular HSS scraper.                                               | ★                               |               |           |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |
| C50        | 151-29117       | Double-sided, 0.30" (7.8 mm), triangular scraper.                                                  | ★                               |               |           |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |
| C60        | 151-29118       | Double-sided, 0.19" (4.8 mm), triangular scraper.                                                  |                                 |               |           |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |
| D80C       | 151-29031       | Solid carbide, 6 cutting edges. Scrapes surfaces and deburrs sheet metal up to 0.12" (3 mm) thick. | ★                               |               |           |            |                       |                |                    |              | ●     | ●           |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |
| D82C       | 151-29032       | Heavy-duty, double-edged carbide blade. Deburrs sheet metal up to 0.35" (9 mm) thick.              |                                 |               |           |            |                       |                |                    |              | ●     | ●           |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |
| D85        | 151-29033       | Tough HSS with chipbreaker and 6 cutting edges. Deburrs sheet metal up to 0.24" (6 mm) thick.      |                                 |               |           |            |                       |                |                    |              | ●     | ●           |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● |  |

| Blade Name | Ordering Number | Description                                                                                                                                                  | Blade<br>(Work Direction Shown) | Applications  |           |            |                          |                   |                       |              |       |             |                           |       | Materials |        |       |           |                    |                   |          |                    |   |   |
|------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|-----------|------------|--------------------------|-------------------|-----------------------|--------------|-------|-------------|---------------------------|-------|-----------|--------|-------|-----------|--------------------|-------------------|----------|--------------------|---|---|
|            |                 |                                                                                                                                                              |                                 | Straight Edge | Hole Edge | Outer Edge | Cross-Hole<br>Burr Edges | Hole<br>Back-Edge | Hole Inner<br>Surface | Flat Surface | Sheet | Slot/Keyway | Inner Straight<br>Corners | Steel | Aluminum  | Copper | Brass | Cast Iron | Stainless<br>Steel | Hardened<br>Steel | Plastics | Carbide &<br>Glass |   |   |
| E100       | 151-29034       | Heavy-duty HSS. Deburrs 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. Deburrs holes with min. diameter 0.08" (2 mm).                                                    |                                 | ●             | ●         |            |                          |                   |                       |              |       |             |                           |       |           | ●      | ●     | ●         |                    |                   |          | ●                  | ● |   |
| E110P      | 151-29039       | PVD TiN coated for high wear resistance. E110 geometry.                                                                                                      |                                 | ●             | ●         |            |                          |                   |                       |              |       |             |                           |       |           | ●      | ●     |           |                    |                   |          | ●                  | ● |   |
| E111       | 151-29109       | Thin-nosed, HSS. Deburrs holes with min. diameter 0.06" (1.5 mm).                                                                                            |                                 | ●             | ●         |            |                          |                   |                       |              |       |             |                           |       |           | ●      | ●     | ●         |                    |                   |          |                    | ● |   |
| 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.                                                                                                      |                                 | ●             | ●         |            |                          |                   |                       |              |       |             |                           |       |           | ●      | ●     | ●         |                    |                   |          |                    | ● |   |
| E300       | 151-29042       | HSS for materials with spiral chips. Simultaneously deburrs the inside and outside of holes up to 0.24" (6 mm) 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 0.24" (6 mm) thick. Rotates clockwise & counterclockwise. |                                 | ●             |           |            | ●                        |                   |                       |              |       |             |                           |       |           |        |       | ●         | ●                  |                   |          |                    | ● |   |
| E350       | 151-29044       | HSS for materials with powdery chips. Rotates clockwise & counterclockwise.                                                                                  |                                 | ●             |           |            |                          |                   |                       |              |       |             |                           |       |           |        |       | ●         | ●                  |                   |          |                    | ● |   |
| E400       | 151-29233       | Mini triangular scraper.                                                                                                                                     |                                 | ●             |           |            | ●                        | ●                 | ●                     |              |       |             |                           |       | ●         | ●      | ●     | ●         | ●                  | ●                 | ●        | ●                  | ● |   |
| E450       | 151-29234       | The 4 in 1 blade.                                                                                                                                            |                                 | ●             |           |            | ●                        |                   |                       | ●            |       |             |                           |       | ●         | ●      | ●     | ●         | ●                  | ●                 | ●        | ●                  | ● |   |
| E500C      | 151-29111       | Carbide tipped scribe. Can be reground.                                                                                                                      |                                 |               |           |            |                          |                   |                       | ●            |       |             |                           |       | ●         | ●      | ●     | ●         | ●                  | ●                 | ●        | ●                  | ● |   |
| E600       | 151-29045       | HSS. Removes burrs from back-edges of holes up to 0.78" (20 mm) thick.                                                                                       |                                 | ●             |           |            |                          | ●                 |                       |              |       |             |                           |       |           | ●      | ●     | ●         |                    |                   |          |                    | ● |   |
| E601       | 151-29046       | Extra-long HSS. Removes burrs from back-edges of holes up to 1.57" (40 mm) thick.                                                                            |                                 | ●             |           |            |                          | ●                 |                       |              |       |             |                           |       |           | ●      | ●     | ●         |                    |                   |          |                    | ● |   |
| E604       | 151-29231       | Cross-hole, back-edge with short nose.                                                                                                                       |                                 |               |           |            | ●                        |                   |                       |              |       |             |                           |       | ●         | ●      | ●     |           |                    |                   |          |                    | ● |   |
| E700       | 151-29047       | HSS for materials with spiral chips. Excellent for deburring & scraping inside thick-walled holes and cross-holes.                                           |                                 |               |           |            |                          | ●                 | ●                     |              |       |             |                           |       |           | ●      | ●     | ●         |                    |                   |          |                    | ● |   |
| E707       | 151-29232       | Contour Cleaner.                                                                                                                                             |                                 | ●             | ●         |            |                          |                   |                       |              |       |             |                           |       |           | ●      | ●     | ●         | ●                  | ●                 | ●        | ●                  | ● |   |
| E720       | 151-29048       | HSS for materials with powdery chips. Excellent for deburring & scraping inside thick-walled holes and cross-holes. Rotates clockwise & counterclockwise.    |                                 |               |           |            |                          | ●                 | ●                     |              |       |             |                           |       |           |        |       | ●         | ●                  |                   |          |                    | ● |   |
| E750       | 151-29113       | HSS specially designed for deburring rubber & soft plastics without poking or sticking into workpiece.                                                       |                                 | ●             | ●         |            |                          |                   |                       |              |       |             |                           |       |           |        |       |           |                    |                   |          |                    | ● |   |
| E755       | 151-29085       | HSS for deburring corner-edges of 0.04" (1 mm) high steps.                                                                                                   |                                 | ●             |           |            |                          |                   |                       |              |       |             |                           |       |           | ●      | ●     | ●         | ●                  | ●                 | ●        | ●                  | ● |   |
| 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.                                                                                                                             |                                 | ●             | ●         |            |                          |                   |                       |              |       |             |                           |       |           | ●      | ●     | ●         |                    |                   |          |                    | ● |   |

# Blade Index

| Blade Name    | Ordering Number | Description                                                                                                                                                           | Blade<br>(Work Direction Shown)                                                      | Applications  |           |            |                       |                |                    |              |       |             |                        |       | Materials |        |       |           |                 |                |          |                 |   |   |   |   |
|---------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|-----------|------------|-----------------------|----------------|--------------------|--------------|-------|-------------|------------------------|-------|-----------|--------|-------|-----------|-----------------|----------------|----------|-----------------|---|---|---|---|
|               |                 |                                                                                                                                                                       |                                                                                      | Straight Edge | Hole Edge | Outer Edge | Cross-Hole Both Edges | Hole Back-Edge | Hole Inner Surface | Flat Surface | Sheet | Slot/Keyway | Inner Straight Corners | Steel | Aluminum  | Copper | Brass | Cast Iron | Stainless Steel | Hardened Steel | Plastics | Carbide & Glass |   |   |   |   |
| F12           | 151-29049       | Countersink for hole-edges with up to 0.47" (12 mm) diameter.                                                                                                         |     |               | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● |   |   |
| F20           | 151-29050       | Countersink for hole-edges with up to 0.78" (20 mm) diameter.                                                                                                         | ★   |               | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● | ● |
| F30           | 151-29051       | Countersink for hole-edges with up to 1.18" (30 mm) diameter.                                                                                                         |     |               | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● | ● |
| F26X          | 151-29147       | Excellent for external chamfering of pipes, tubes and other items with up to 1.02" (26 mm) diameter.                                                                  | ★   |               |           | ●          |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● | ● |
| G10           | 151-29052       | HSS. Deburs slots up to 0.6" (15 mm) wide.                                                                                                                            | ★   |               |           |            |                       |                |                    |              |       |             | ●                      |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● | ● |
| G20           | 151-29053       | HSS, 4 cutting corners. For slots up to 0.4" (10 mm) wide.                                                                                                            |     |               |           |            |                       |                |                    |              |       |             | ●                      |       |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● | ● |
| G30C          | 151-29115       | Solid carbide, 3 cutting corners. Cleans corners and removes radii after machining for smooth flush mating of adjoining faces.                                        |     |               |           |            |                       |                |                    |              |       |             |                        | ●     |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● | ● |
| G40C          | 151-29103       | Carbide, 4 cutting corners. For slots up to 0.4" (10 mm) wide.                                                                                                        |     |               |           |            |                       |                |                    |              |       |             |                        | ●     |           | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● | ● |
| K10C          | 151-29062       | Double-edged, carbide. Deburs surfaces up to 1.91" (50 mm) wide.                                                                                                      |     |               |           |            |                       |                |                    |              |       |             |                        |       | ●         | ●      | ●     | ●         | ●               | ●              | ●        | ●               | ● | ● | ● | ● |
| L10           | 151-29063       | HSS, 4 cutting edges. Removes burrs from external edges, OD 0.78" (20 mm) and up. "A" side deburs materials with spiral chips; "B" side for powdery chips.            |     |               |           | ●          |                       |                |                    |              |       |             |                        |       |           | A      | A     | A         | B               | B              | A        |                 |   | A | B |   |
| R10           | 151-29141       | Double-sided, round HSS blade. "A" side deburs materials with spiral chips; "B" side for powdery chips.                                                               | ★   |               | ●         |            |                       |                |                    |              |       |             |                        |       |           | A      | A     | A         | B               | B              | A        |                 |   | A | B |   |
| 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 0.63" (16 mm) thick. Use a single R30 for one straight edge, or two blades at once to deburr both edges simultaneously. |   |               | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                | ●        |                 |   | ● | ● |   |
| 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.                                                                                                                                 |   |               | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      |       |           |                 |                |          |                 |   | ● | ● |   |
| Q11           | 151-00132       | Double-sided deburring. Curved ceramic blade for curved edges and small ridges.                                                                                       |   |               | ●         |            |                       |                |                    |              |       |             |                        |       |           | ●      |       |           |                 |                |          |                 |   | ● | ● |   |
| Finishing Bit | 156-00001       | D1/4" hex shank bit with deburr blade (4 pack).                                                                                                                       |   |               | ●         | ●          |                       |                |                    |              |       |             |                        |       |           | ●      | ●     | ●         |                 |                |          |                 |   | ● | ● |   |

## Durable TiN Coated Blades in Two Convenient Sets

### Multi-purpose Blade Set B

For Standard Deburring

- 5 Pairs of B Blades: B10Px2, B11Px2, B12Px2, B20Px2, B30Px2

### Multi-purpose Blade Set E

For Heavy Duty Deburring

- 5 Pairs of E Blades: E100Px2, E110Px2, E111Px2, E200Px2, E300Px2


















Multi-purpose Blade Set B  
Ordering No.: 155-00252



Multi-purpose Blade Set E  
Ordering No.: 155-00251



# Holders

|                                                                                  |                                                                                                                |                                                                                            |                                                                                                                  |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Blade Holder E<br>For all E blades.                                              | <br>Ordering No.: 153-29004   | Blade Holder FR<br>Ratchet holder for all F blades.                                        | <br>Ordering No.: 153-29006   |
| Blade Holder B<br>Holds all B blades.<br>Use axially or perpendicular to holder. | <br>Ordering No.: 153-29000   | Blade Holder U<br>For all BUS blades.                                                      | <br>Ordering No.: 153-29121   |
| Blade Holder M<br>For both B- or E-series blades.                                | <br>Ordering No.: 153-29138   | Blade Holder L<br>For the L10 blade.                                                       | <br>Ordering No.: 153-29010   |
| Blade Holder C<br>For C40 & C42 blades                                           | <br>Ordering No.: 153-29001   | Blade Holder G<br>Holds G10, G20 & G40C blades.                                            | <br>Ordering No.: 153-29007   |
| Blade Holder D<br>For D80C & D82C blades.                                        | <br>Ordering No.: 153-29002   | Blade Holder G4<br>Angled to offer easy access to work area. Holds G10, G20 & G40C blades. | <br>Ordering No.: 153-29102   |
| Blade Holder D5<br>For D85 blade.                                                | <br>Ordering No.: 153-29003   | Blade Holder G3<br>Angled to offer easy access to work area. Holds G30C blades.            | <br>Ordering No.: 153-29094   |
| Blade Holder F<br>For all F blades.                                              | <br>Ordering No.: 153-29005   | Blade Holder K<br>Holds the surface scraper K10.                                           | <br>Ordering No.: 153-29009  |
| Blade Holder BURR-BI BR                                                          | <br>Ordering No.: 153-29139 | Handguard<br>Stainless steel handguard to protect your hand.                               | <br>Ordering No.: 152-00030 |

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| 151-29035    | 15       | 151-29215    | 14       | 154-29144    | 10       | 155-29068    | 3        | 155-90071    | 3        |
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The **Finishing**  
Touch

# Applications & Tool Selection Guide

**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

**Outer Edge**



For Sets: Burr-Ex, L

**Cross-Hole Both Edges**



For Sets: E, M, 1

**Hole Back-Edge**



For Sets: C, E, HC, U

**Hole Inner Surface**




For Sets: C, HC, U

**Flat Surface**



For Sets: C, D, HC, K, U

**Sheets**



For Sets: D, Burr-Bi

**Slot/Keyways**



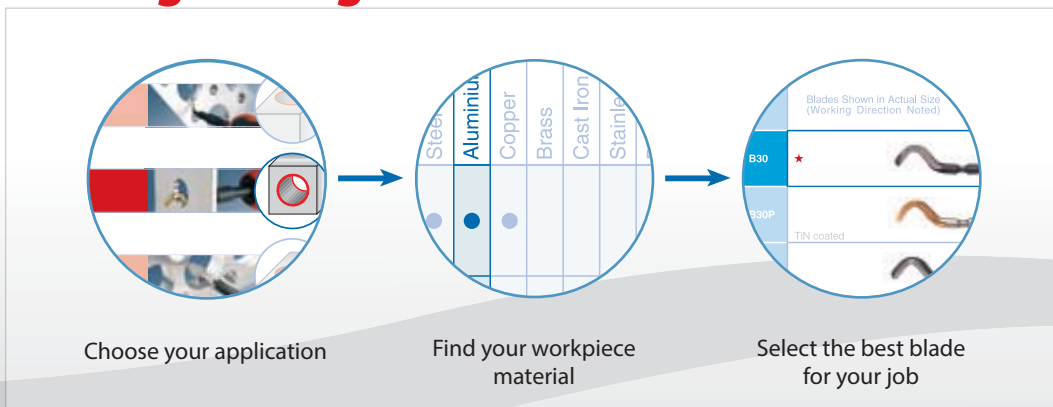
For Sets: G, U

**Inner Straight Corners**



For Sets: U, G3

## Finding the Right Tool for Your Job



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