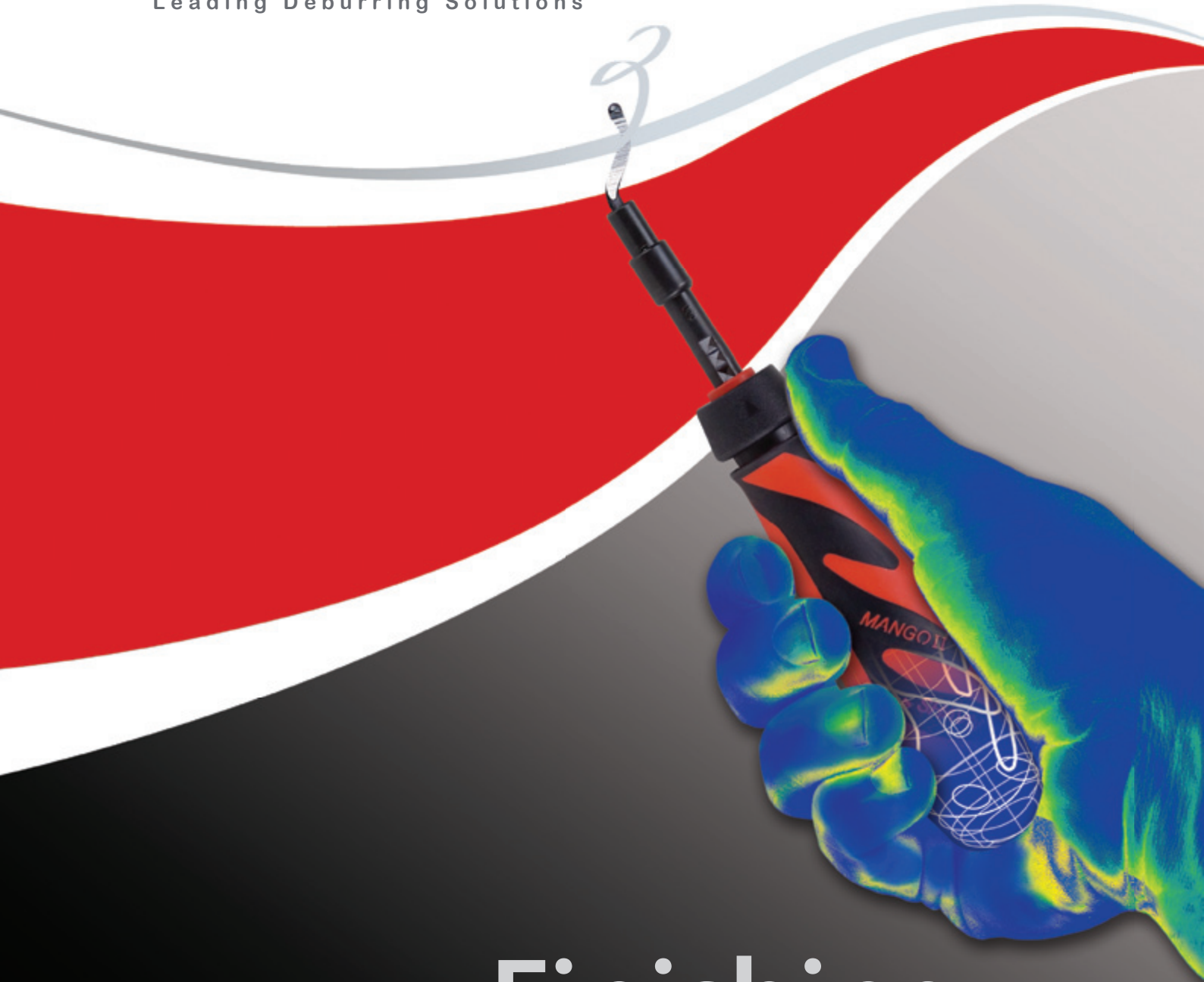


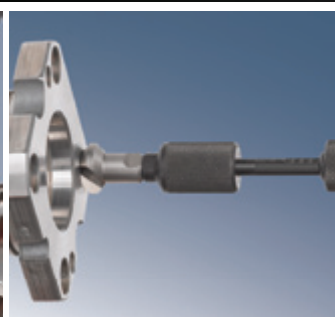
SHAVIV
Leading Deburring Solutions

vargus
NEUMO Ehrenberg Group



The Finishing Touch

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 holders and blades.

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 1mm (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



Mango IIB Extra-Close



Mango IIE Extra-Close



Mango II Long-Reach

The **Finishing Touch**

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

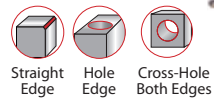
Set Name	Handle	Holder	Blades	Ordering No.
Mango II Set F	Mango II	F	F20	155-90071
Shaviv Set F	Classic	F	F20	155-29070
Aluminum Set F	Aluminum	F	F20	155-00222

mango II Long Reach and Specialty Sets



Mango II Set M* The 2 in 1

Deburs 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.



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 FRX	Mango II	FR	F26X	155-90073
Shaviv Set FRX	Classic	FR	F26X	155-29146
Aluminum Set F	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



Mango IIE+1



Mango IIE+3



Mango IIE+5



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

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. 6 types now available!

- Each kit designed for specific application types
- Convenient packaging for storing tools

Deburring & Scraping Standard Duty

Deburring & Scraping Heavy Duty

Deburring & Sheet Cleaning



154-00034

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



154-00036

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



154-00035

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

Deburring & Chamfering

Filing & Deburring

Deburring & Deflashing



154-00033

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



154-00030

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



154-00040

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

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 up to 5 times the life of standard non-coated blades
- Great for other applications such as dies, molds, automotive and R&D

Products

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

Tri-Flute Chamfering Kit

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



154-00032

Zero Flute Chamfering Kit

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



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

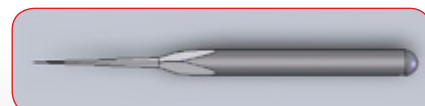
C80

Blade	Shank Diameter	Tip Angle	Ordering Code
C80	2.6 mm	5°	151-00114



C81 / C81-3

Blade	Shank Diameter	Tip Angle	Ordering Code
C81	3.2 mm	5°	151-00116
C81-3	3.0 mm	5°	151-00129



C82 / C82-3

Blade	Shank Diameter	Tip Angle	Ordering Code
C82	3.2 mm	10°	151-00115
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



FREE
Handle

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

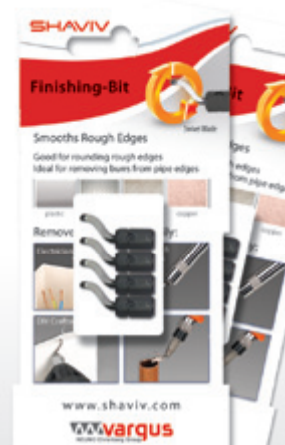


Set Name	Handle	Blades	Ordering No.
Set Finishing Bit	Screwdriver Bit Holder Handle	Finishing Bit	156-00003

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.



B10

B



Straight Edge



Hole Edge

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.



E100

E



Straight Edge



Hole Edge



Cross-Hole Both Edges

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.



B10

B



Straight Edge



Hole Edge

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.



E100

E



Straight Edge



Hole Edge



Cross-Hole Both Edges

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.



C42

C



Straight Edge



Hole Edge



Hole Back-Edge



Flat Surface



Hole Inner Surface

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.



C50



Straight Edge



Hole Edge



Hole Back-Edge



Flat Surface

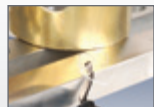


Hole Inner Surface

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.



E100



Straight Edge



Hole Edge



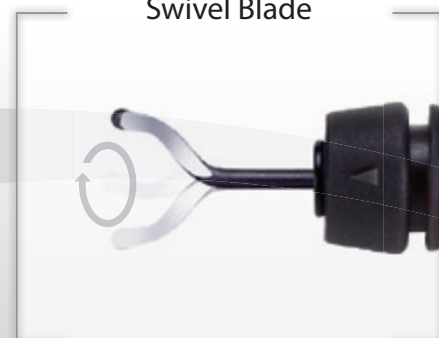
Cross-Hole Both Edges

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

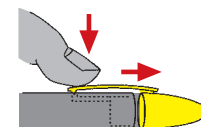
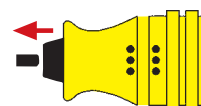
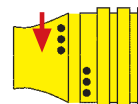


Glo-Burr	Ordering No.
Glo-Burr B Assortment Kit - 48 pc	154-29136
Glo-Burr E Assortment Kit - 48 pc	154-00013

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

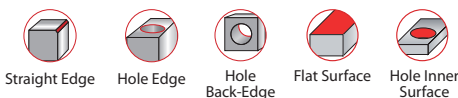
Set Name	Handle	Blades	Ordering No.
Handy Kit 4E	Glo-Burr	E100, E200, E300, E111	154-29144

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.



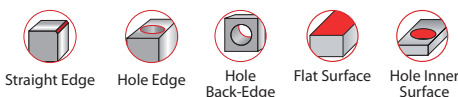
C42

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.



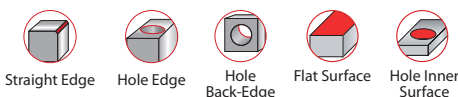
C40

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.



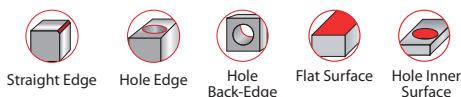
E400

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

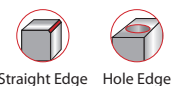
B10

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.



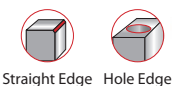
Ordering No.: 155-29190

Strong, yet lightweight. Features convenient pocket clip.
Deburs 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.



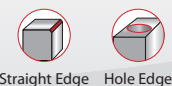
Ordering No.: 155-29080

Strong, yet lightweight. Features convenient pocket clip.
Deburs 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.



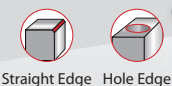
Ordering No.: 155-29192

Strong, yet lightweight. Features convenient pocket clip.
Deburs 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.
Deburs 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



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.

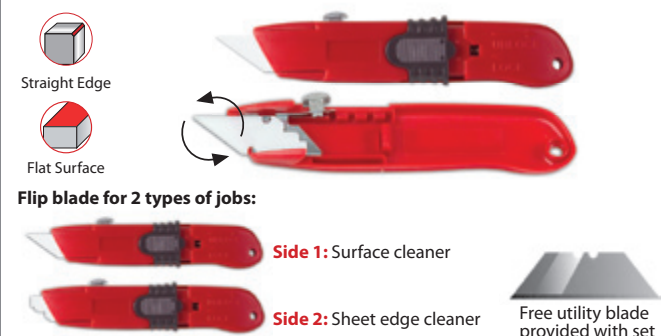


Set Name	Handle	Blades	Ordering No.
Cera-Burr	Glo-Burr	Permanent	155-90084
Cera-Burr Curve Q11	Glo-Burr	Permanent	155-00239

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.

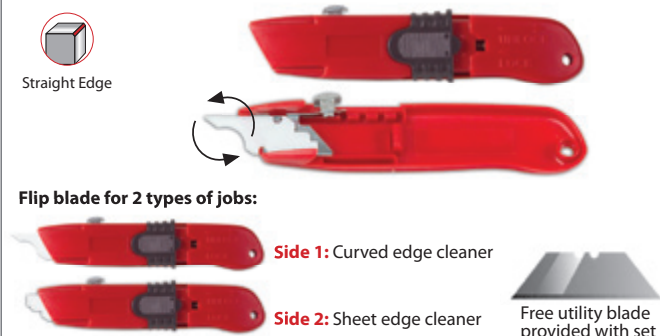


Set Name	Handle	Blades	Ordering No.
Set Ceramix Q10	Ceramic Handle	Q10	155-29238

CERAMIX Curved Set Q12

Heavy-Duty Handle with Ceramic Q11 Blade

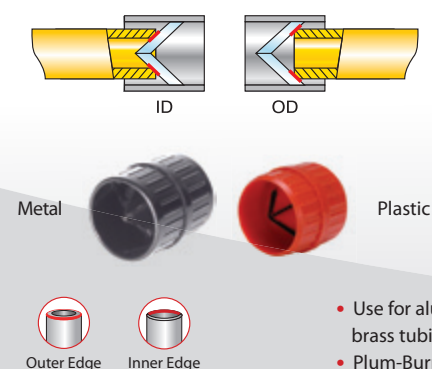
Adjust the cutting angle between the blade and the material for best results and to prevent scratches. Flip blade for 2 types of jobs.



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.



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

- 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)

CERAMIX Blades



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



Straight Edge



Hole Edge



Hole Back-Edge



Cross-Hole Both Edges



Hole Inner Surface



Flat Surface

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



Straight Edge



Hole Edge



Hole Back-Edge



Cross-Hole Both Edges



Hole Inner Surface



Sheets

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)



Straight Edge



Hole Edge



Hole Back-Edge



Flat Surface

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



Straight Edge



Hole Edge



Hole Back-Edge



Cross-Hole Both Edges



Hole Inner Surface



Flat Surface

Kit Classic KWC

The Universal Box - Plastic Case or Wooden 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

Classic KWC Wooden Case Ordering No.: 154-29061

Mango II Kit KWC Ordering No.: 154-00024



Straight Edge



Hole Edge



Hole Back-Edge



Cross-Hole Both Edges



Sheets



Flat Surface



Hole Inner Surface

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



Straight Edge



Hole Edge



Hole Back-Edge



Outer Edge



Hole Inner Surface



Inner Straight Corners

Kit Classic KPA Plastics Deflashing

The perfect, complete kit for deflashing plastics.

Contains:

* Classic Handle A

* UB38 deburring tool

* Holders - B, E, G3 & LP

* Blades - B12, B25, E110, E700, G30C & L10



Classic KPA Ordering No.: 154-00012

Mango II KPA Ordering No.: 154-00037



Straight Edge



Hole Edge



Hole Back-Edge



Outer Edge



Inner Straight Corners



Hole Inner Surface

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



Straight Edge



Hole Edge



Sheets

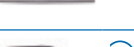


Cross-Hole Both Edges



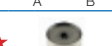
Flat Surface

Blade Index

Blade Name	Ordering Number	Description	Blade (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.		●	●									●	●	●			●						
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 (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		
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.		●	●									●	●	●			●		●			

Blade Index

Blade Name	Ordering Number	Description	Blade (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. Deburrs 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. Deburrs 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 deburrs 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 deburrs 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.			●					●											●		
Finishing Bit	156-00001	D1/4" hex shank bit with deburr blade (4 pack).			●	●								●	●	●					●		

Bonus Pack E100P Blades TiN Coated

TiN (Titanium Nitride) coated blades

Achieve the best finish with the highest wear resistance

Buy 10 x E100P blades (TiN Coated) and receive 2 blades **FREE**

Additional TiN Coated Blades Available in Packs of 10



Ordering No.: 151-00112



Holders

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

The Tools of Choice for Industrial Use

SHAVIV deburring blades, sets, kits and tools are the choice of leading companies in the die & mold, automotive, aviation, plastics, electronics assembly, piping and other industries.



Die & Mold



Electrical



Plastic



Automotive



Metal



Plumbing



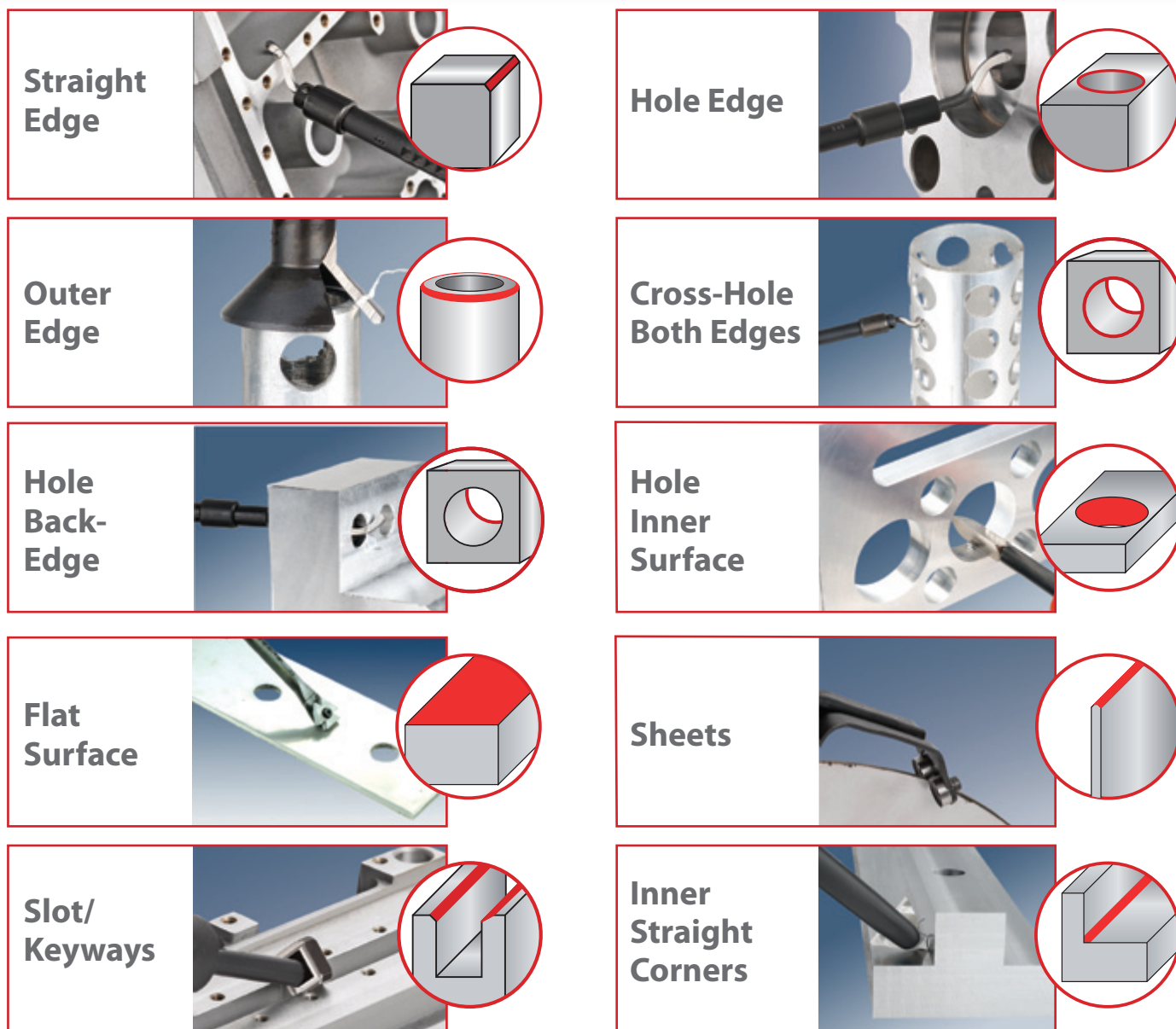
Aviation

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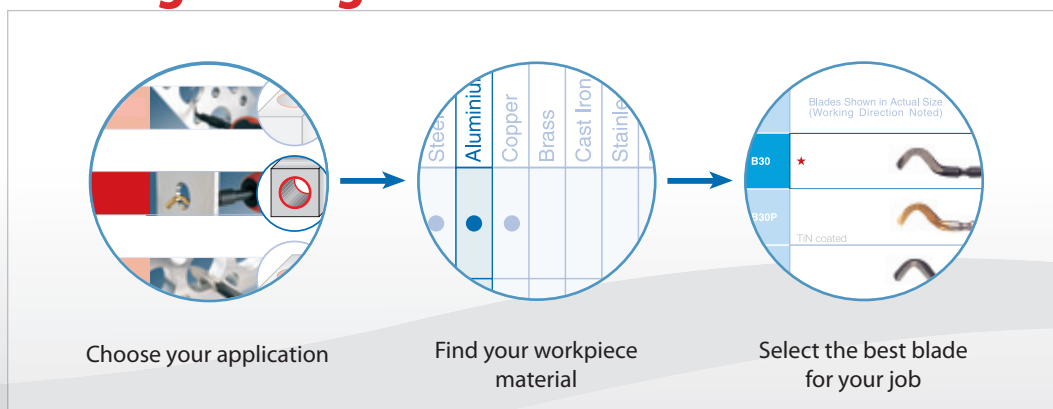
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