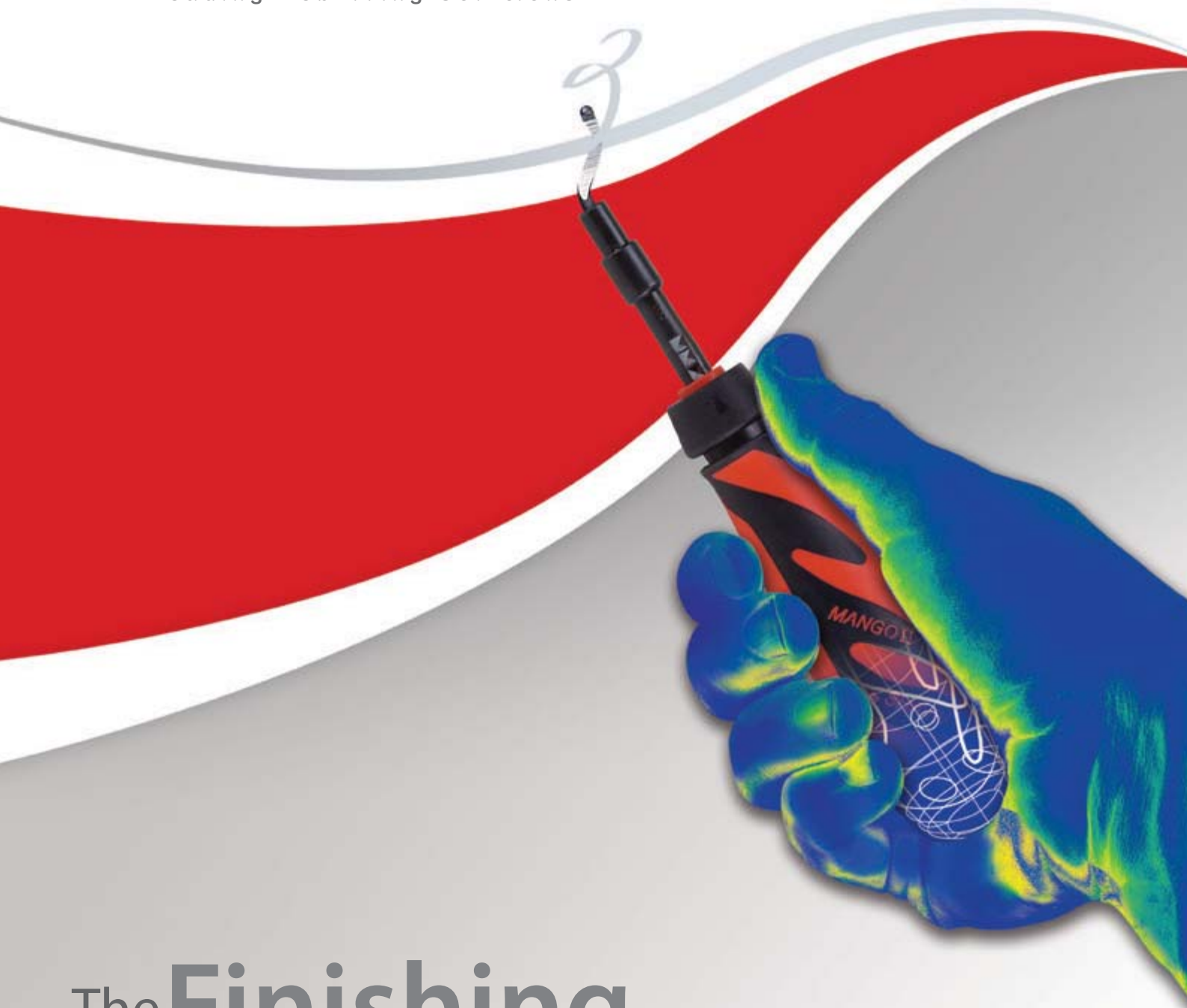


SHAVIV
Leading Deburring Solutions

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 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 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

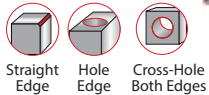
Set Name	Handle	Holder	Blades	Ordering No.
Mango II Set F	Mango II	F	F20	155-90071
Shaviv Set F	Classic	F	F20	155-29070
Aluminum Set F	Aluminum	F	F20	155-00222

mango II Long Reach and Specialty Sets



Mango II Set M* The 2 in 1

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



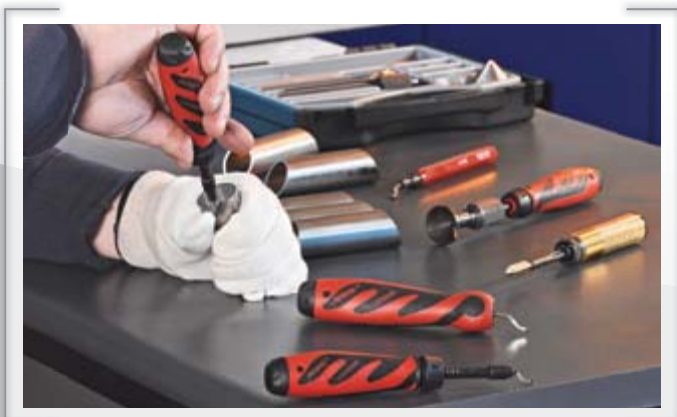
Sheets



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



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. 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 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	



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	

New Individual Tri-Flute Countersinks

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

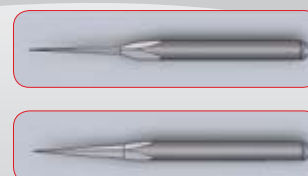


Shaviv's Tri-Flute Countersinks can be used with either the 1/4" BIT HOLDER handle (156-0003) or any power tool.

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

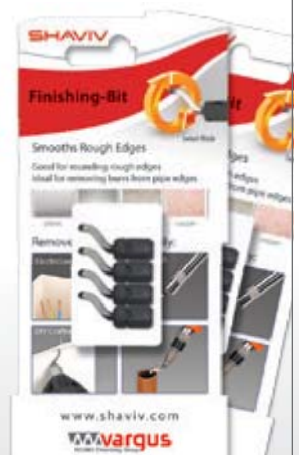


Set Name	Handle	Blades	Ordering No.
Set Finishing Bit	Screwdriver Bit Holder Handle	Finishing Bit	156-00003

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



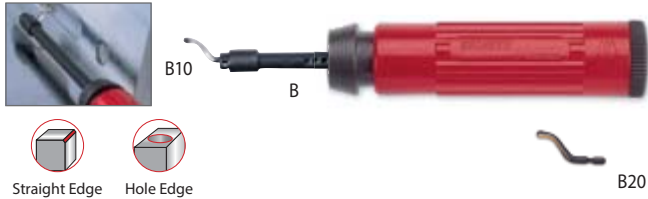
Set Name	Blades	Ordering No.
Finishing Bit 4 Pack	4 Finishing Bits	156-00001

Classic Sets



Shaviv Set B* The Workhorse

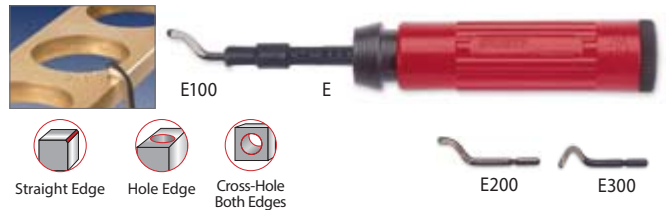
Popular set for holes, slots & edges.
B holder supports all B blades which can be inserted axially or perpendicular to the holder.



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

Shaviv Set E* Heavy DeBurr

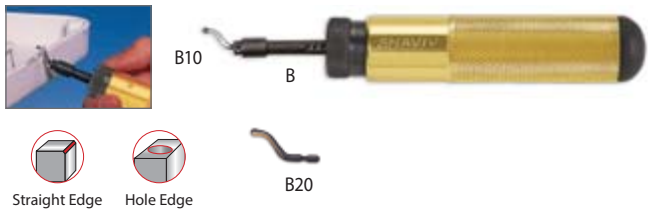
Rugged deburring set for heavy-duty deburring of holes, slots and edges.
E Holder supports all E blades.



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

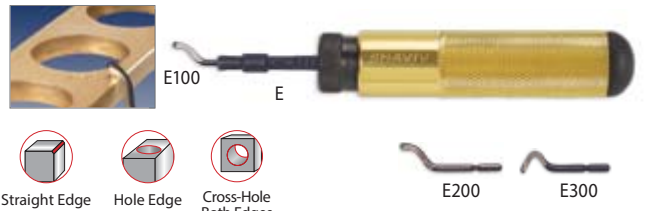
Popular set for holes, slots & edges.
B holder supports all B blades which can be inserted axially or perpendicular to the holder.



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

SHAVIV Set E Aluminum* Heavy DeBurr

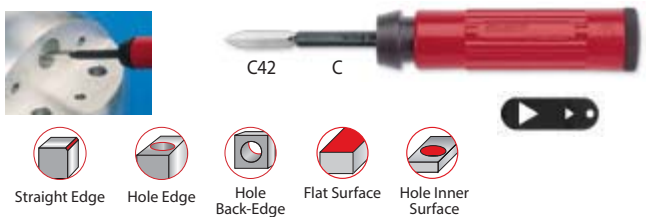
Rugged deburring set for heavy-duty deburring of holes, slots and edges.
E Holder supports all E blades.



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

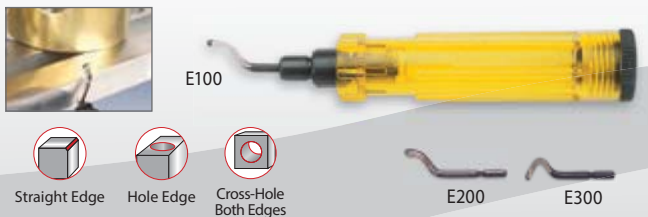
Delivers pin vise versatility for finishing & scraping applications. Also used for gripping miniature files, drills, reamers, taps, wires, countersinks and other small objects - 0.04"-0.32" (1-8 mm) in diameter. Handy for assembling electronic components and watch repair.



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.



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

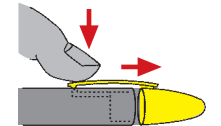
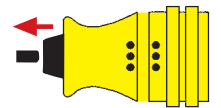
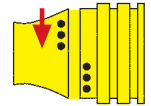


Glo-Burr	Ordering No.
Glo-Burr B Assortment Kit - 48 pc	154-29136
Glo-Burr E Assortment Kit - 48 pc	154-00013

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

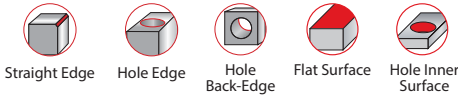
Set Name	Handle	Blades	Ordering No.
Handy Kit 4E	Glo-Burr	E100, E200, E300, E111	154-29144

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.



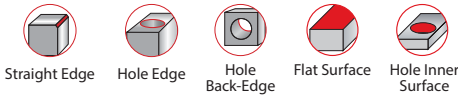
C42

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.



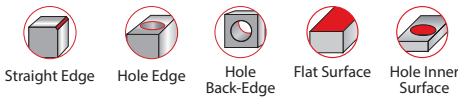
C40

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.



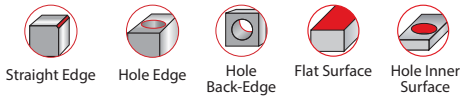
E400

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

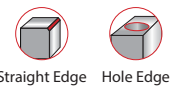
B10

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.



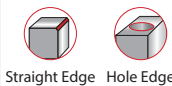
Ordering No.: 155-29190

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



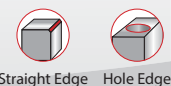
Ordering No.: 155-29080

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

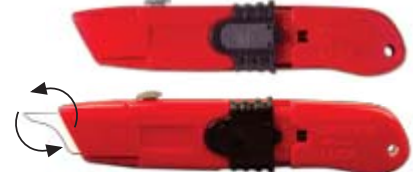
CERAMIX Curved Set Q12

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

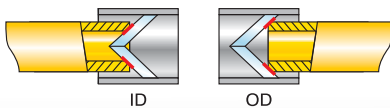


Free utility blade provided with set

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



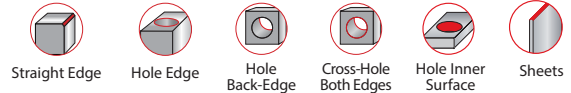
Kit Classic KPC2 The Favorite 5

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

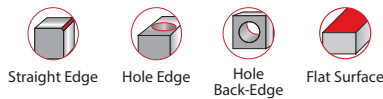


Kit TD Tool & Die Maker's Kit

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

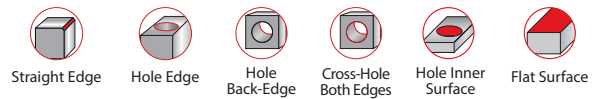
Ultra-fine finish kit for precision workpieces.

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

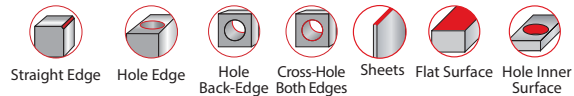
Excellent all-around deburring kit for your workshop. You get all the tools you need for 1000+ applications.

- 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.

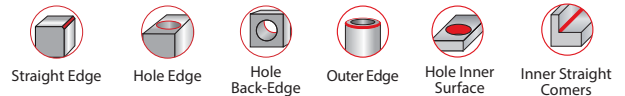
Contains:

- * 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

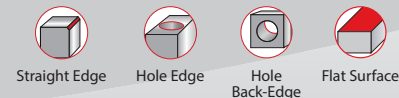
Replaceable blades now available for Shaviv's professional line of miniature deburring and scraping tools for the dies and molds industry.

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

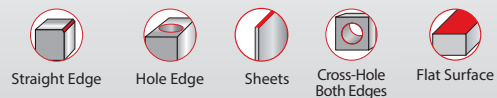
Perfect for a wide variety of deburring applications including deburring sheets made of practically any material: metal, plastic, acrylic, etc. Removes ragged edges from one side at a time or both sides at once.

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 (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 (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. Deburs materials with spiral chips.		●	●											●	●	●					●			
E100C	151-29035	Wear resistant carbide. E100 geometry.		●	●																		●	●		
E100D	151-29036	Diamond-coated. E100 geometry.		●	●																			●		
E100L	151-29098	E100 for left-handed users.		●	●											●	●	●						●		
E100P	151-29037	PVD TiN coated for high wear resistance. E100 geometry.		●	●											●	●						●	●		
E100PL	151-00022	Coated for left-handed users.		●	●											●	●						●	●		
E100S	151-29211	Long-lasting, cobalt-enriched. E100 geometry.		●	●											●	●	●					●	●		
E110	151-29038	E shaft, B10 cutting edge for materials with spiral chips. Deburs holes with min. diameter 0.08" (2 mm).		●	●											●	●	●					●	●		
E110P	151-29039	PVD TiN coated for high wear resistance. E110 geometry.		●	●											●	●						●	●		
E111	151-29109	Thin-nosed, HSS. Deburs 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 deburs 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 deburs 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 (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 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

Page Reference

Ordering No.	Page No.	Ordering No.	Page No.	Ordering No.	Page No.	Ordering No.	Page No.	Ordering No.	Page No.
151-00022	15	151-29053	16	153-29002	17	155-00169	11	155-29140	4
151-00099	15	151-29058	15	153-29003	17	155-00173	13	155-29146	4
151-00107	15	151-29062	16	153-29004	17	155-00174	13	155-29152	10
151-00120	14	151-29063	16	153-29005	17	155-00175	13	155-29153	10
151-00129	7	151-29085	15	153-29006	17	155-00177	5	155-29154	10
151-00130	7	151-29095	14	153-29007	17	155-00178	5	155-29155	10
151-00132	12, 16	151-29096	14	153-29009	17	155-00179	5	155-29156	10
151-00137	7	151-29098	15	153-29010	17	155-00180	5	155-29157	10
151-00138	7	151-29099	15	153-29094	17	155-00181	5	155-29158	11
151-00139	7	151-29103	16	153-29102	17	155-00182	5	155-29159	11
151-19017	14	151-29105	15	153-29121	17	155-00183	5	155-29160	11
151-19019	14	151-29106	15	153-29138	17	155-00184	5	155-29178	4
151-19020	14	151-29108	14	153-29139	17	155-00199	4	155-29180	11
151-29013	14	151-29109	15	154-00008	13	155-00206	4	155-29181	11
151-29014	14	151-29110	14	154-00012	13	155-00207	4	155-29184	11
151-29015	14	151-29111	15	154-00013	10	155-00220	4	155-29187	11
151-29016	14	151-29113	15	154-00024	13	155-00221	4	155-29190	11
151-29018	15	151-29115	16	154-00030	6	155-00222	3	155-29191	11
151-29021	14	151-29117	14	154-00031	7	155-00223	3	155-29192	11
151-29022	14	151-29118	14	154-00032	7	155-00224	4	155-29202	11
151-29023	14	151-29141	16	154-00033	6	155-00231	6	155-29203	11
151-29024	14	151-29142	16	154-00034	6	155-00232	6	155-29229	8
151-29025	14	151-29143	16	154-00035	6	155-00238	12	155-29238	12
151-29026	14	151-29147	16	154-00036	6	155-00239	12	155-90056	5
151-29027	14	151-29195	16	154-00037	13	155-00251	16	155-90058	5
151-29028	14	151-29196	16	154-00038	13	155-00252	16	155-90060	5
151-29029	14	151-29197	16	154-00040	6	155-00258	7	155-90061	5
151-29030	14	151-29198	16	154-00045	6	155-00259	7	155-90062	3
151-29031	14	151-29207	14	154-00046	13	155-29057	2	155-90064	3
151-29032	14	151-29210	14	154-29060	13	155-29065	9	155-90065	3
151-29033	14	151-29211	15	154-29079	13	155-29066	9	155-90066	5
151-29034	15	151-29212	14	154-29136	10	155-29067	9	155-90068	5
151-29035	15	151-29215	14	154-29144	10	155-29068	3	155-90071	3
151-29036	15	151-29216	15	154-29228	13	155-29069	9	155-90072	3
151-29037	15	151-29227	15	154-90042	10	155-29070	3	155-90073	4
151-29038	15	151-29231	15	154-90081	11	155-29071	3	155-90074	4
151-29039	15	151-29232	15	154-90085	13	155-29072	4	155-90076	8
151-29040	15	151-29233	15	155-00019	9	155-29075	4	155-90078	11
151-29041	15	151-29234	15	155-00051	13	155-29076	4	155-90079	11
151-29042	15	151-29236	12, 16	155-00156	13	155-29078	9	155-90080	11
151-29043	15	152-00003	2	155-00161	8	155-29081	11	155-90082	12
151-29044	15	152-00005	2	155-00162	5	155-29084	13	155-90083	12
151-29045	15	152-00009	2, 5	155-00163	9	155-29092	11	155-90084	12
151-29046	15	152-00013	2, 8	155-00164	9	155-29107	11	156-00001	8, 16
151-29047	15	152-00016	2,5	155-00165	11	155-29119	4	156-00003	7, 8
151-29048	15	152-00019	2, 3	155-00166	11	155-29133	10		
151-29049	16	152-00026	2	155-00168	11	155-29134	10		
151-29050	16	152-00030	3, 17						
151-29051	16	153-29000	17						
151-29052	16	153-29001	17						

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



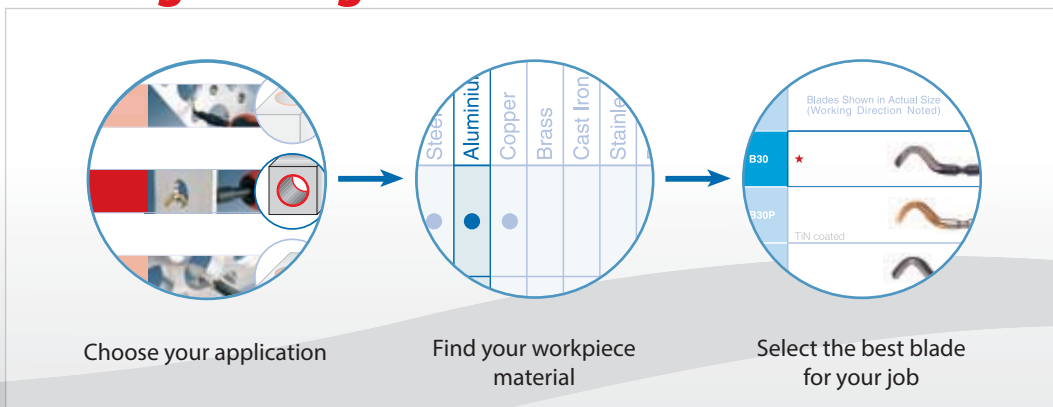
For Sets: G, U

Inner Straight Corners



For Sets: U, G3

Finding the Right Tool for Your Job



Distributed By:



SHAVIV
Leading Deburring Solutions

Contact info | VARGUS Ltd. | mrktg@vargus.com | www.vargus.com

221-00751
INT'L - EE
07/2015
EDITION 10/714