

### COUNTERSINKING SOLUTIONS

SHAVIV offers several alternatives for countersinking and deburring of holes





# **Rotoburr Set**

Offset Countersink Holder

Part	PRICE	Handle w/RO	TOBURR & F20
155-00338	\$55.05	MANGO II	age.
155-00339	\$63.96	ALUMINUM	of Superior (Control)

for Fast & Easy Continuous Deburring & Chamfering Includes Handle, Rotoburr Holder & F20 (20mm) HSS Countersink



# **FR Set**

Ratcheting Countersink Holder

Part	PRICE	Handle w/FR	HOLDER & F20
155-90072	\$55.88	MANGO II	Vega
155-00223	\$64.83	ALUMINUM	a disease reception (a)

for Steady Chatter-Free Style Deburring & Chamfering Includes Handle, Ratcheting FR Holder & F20 (20mm) HSS Countersink



## F Set

Original Manual Style Countersink Holder

Part	PRICE	Handle w/F	HOLDER & F20
155-90071	\$44.03	MANGO II	Value of the same
155-00222	\$52.04	ALUMINUM	WEBARRO TOTS LINE

for Less Agressive Deburring & Chamfering Includes Handle, Original F Holder & F20 (20mm) HSS Countersink

F SERIES COUNTERSINKS - Compatible with "Rotoburr': "FR" & "F" Holders Available Separately

F12	151-29049	Countersink for hole-edges with up to 12 mm (.47") diameter.	\$19.88		
F12P	151-00159	PVD TiN coated for high wear resistance. Countersink for hole-edges with up to 12 mm (.47") diameter.	\$40.07	<b>←</b>	Hole Edge
F20	151-29050	Countersink for hole-edges with up to 20 mm (.78") diameter.	\$27.21	<b>→</b>	Note Lage
F20P	151-00160	PVD TiN coated for high wear resistance. Countersink for hole-edges with up to 20 mm (.78") diameter.	\$52.64	<b>♦</b>	
F30	151-29051	Countersink for hole-edges with up to 30 mm (1.18") diameter.	\$47.10	<b>→</b> →	
F30P	151-00161	PVD TiN coated for high wear resistance. Countersink for hole-edges with up to 30 mm (1.18") diameter.	\$84.39	<b>4</b>	Outer Edge
F26X	151-29147	Excellent for external chamfering of pipes, tubes and other items with up to 26 mm (1.02") diameter.	\$37.68	<b>~</b> ^	





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Call: 905.624.5524



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# TiN Coated MULTI-PACKS - "B" and "E" Series

Individual blades which fit into "B" and "E" holders and handles by SHAVIV. Multiple styles of blades cover several different deburring applications.

### Part 155-00252

Classic EDP# 29275 Standard Duty TiN Coated "B" MULTI-PACK Blade Set

Includes: (2ea of B10P,B11P,B12P, B20P & B30P) "B" Style Blades

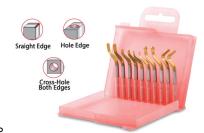


Price: \$33.49

## Part 155-00251

Classic EDP# 29274 **Heavy Duty** TiN Coated "E" MULTI-PACK Blade Set

Includes: (2ea of E100P,E110P,E111P, E200P & E300P) "E" Style Blades



Price: \$41.79

The SHAVIV "GOLDEN SETS" give you several different styles of TiN Coated, high wear resistance blades to handle multiple deburring applications.

Each Set includes our Heavy Duty Aluminum Handle, a blade holder, and a "Multi-Pack" which features two each of 5 different style blades.

Blade Style	Application
blade offic	Аррисанон

B10P / E100P	High Resistance Wear – For Straight & Hole Edge Applications
B11P / E111P	Extra Thin Nose - For Smaller Straight & Hole Edge Applications
B20P / E200P	Blades are chamfered to rotate clockwise and counter clockwise
B30P / E300P	Made for simultaneously deburring the inside & outside of holes
B12P / n/a	Short Nose Design – For Straight & Hole Edge Applications
n/a / E110P	Features a B10 Cutting edge for materials with spiral chips

GOLDEN SET B - For Standard Duty Applications

Part 155-00258 Aluminum Handle with "B" Holder

(2ea of B10P, B11P, B12P, B20P & B30P) B Style Blades - Classic EDP# 29280

GOLDEN SET E - For Heavy Duty Applications

Part 155-00259 Aluminum Handle with "E" Holder

(2ea of E100P, E110P, E111P, E200P & E300P) E Style Blades - Classic EDP# 29281

### Available in Both "B" and "E" Blade Styles





# TiN Coated AEROBURR SETS

Customized for the unique applications required by aerospace industries. Contains thin nosed TiN coated blades that are designed to deburr curves and small holes at 1/16" (1.5mm)

### Part 155-00231

Classic EDP# 90110 Standard Duty AeroBurr Set B11P

Includes 1 Mango II Handle, "B" Blade Holder & 5 B11P Blades



Price: \$24.45

# Part 155-00232

Price: \$53.79

Price: \$62.04

Classic EDP# 90111

Heavy Duty

AeroBurr Set E111P

Includes 1 Mango II Handle, "E" Blade Holder & 5 E111P Blades



Price: \$26.85



#### TRI-FLUTE CHAMFERING KIT

#### Part 154-00031

Classic EDP# 90097

Price: \$119.13

Overall Length: 1 1/2 in Shank Dia. 3/32 in Material: High Speed Steel

Kit Content: 1/2 in Solid HSS Countersinks. 13/16 in, 5/8 in, B12 Fixed Blade, Finishing Bit

Primary Material Application: Aluminum, Copper, Plastic, Steel

### ZERO-FLUTE CHAMFERING KIT

# Part 154-00032

Classic EDP# 90098

Price: \$133.43









Overall Length: 1 1/2 in Shank Dia. 3/32 in Material: High Speed Steel

Kit Content: 1/2 in Solid HSS Countersinks, 13/16 in, 5/8 in, B12 Fixed Blade, Finishing Bit

Primary Material Application: Aluminum, Copper, Plastic, Steel