



SECTION 08: COMPOSITE CUTTING TOOLS

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Supplying the Aerospace, Defense & Metal Working Industries Since 1951!

MINIMUM ORDER: \$100.00 List Price

TERMS:

- Net 30 days on approved credit only
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RETURNS:

1. Return authorization is required.
2. Merchandise must be sent freight prepaid to the facility from which it was purchased.
3. A 20% restocking charge is applicable
4. **All claims must be made within seven (7) days of receipt of goods**

FREIGHT: F.O.B. Shipping Point.

SPECIAL ORDERS: All special orders may require prepayment

CURRENCY: All prices are in U.S. Dollars

OVERSEAS: Same as above, only **prepayment via bank wire transfer (all fees for buyers account) or by bank check**

Government IMPAC Cards Accepted

Don't forget to check out USATCO Online, with monthly sales, homebuilder specials, surplus items & an easy to use interface its the easiest place to shop for tools on the web.

www.USATCO.com

Please ask about our tool rental policy!

We repair all major brand pneumatic tools on our premises. We are an official repair station for Cherry Textron[®], Chicago Pneumatic[®], and Cooper[®] Power Tools (including Dotco[®], Gardener Denver[®], Buckeye[®] and Doler[®]). In addition, we have our own manufacturing and modification facilities. We are riveting and product assembly specialists!

We will be happy to examine your tools free of charge and give you an estimate of repair cost. Ship prepaid to any of our facilities. Please send tensiometers to our New York Lab only.

LIMITED WARRANTY

If for any reason you are not completely satisfied with any item purchased from us you may request a return authorization within seven (7) days of receipt of goods. When obtained, send us the item (transportation prepaid) for replacement, repair or refund. Tools manufactured by USATCO are warrantied for one (1) year from date of purchase. We cannot assume liability for abuse, misuse or alteration of goods. Any tampering with tools or attempted repairs of same will nullify this warranty.

Note: Warranties from other manufacturers available upon request.

P.B.S. Diamond Plated Saw Blades

40/60 Grit - 1/8" Return			
Part Number Slotted*	Part Number Unslotted*	Outside Diameter	Plated Thickness (Kerf)
49-SB1S	49-SB1U	1" (25 mm)	.060" to .080"
49-SB1-1/2S	49-SB1-1/2U	1-1/2" (38 mm)	
49-SB2S	49-SB2U	2" (51 mm)	
49-SB2-1/2S	49-SB2-1/2U	2-1/2" (64 mm)	
49-SB3S	49-SB3U	3" (76 mm)	
49-SB3-1/2S	49-SB3-1/2U	3-1/2" (89 mm)	
49-SB4S	49-SB4U	4" (102 mm)	
49-SB5S	49-SB5U	5" (127 mm)	.090" to .110"
49-SB6S	49-SB6U	6" (152 mm)	
49-SB7S	49-SB7U	7" (178 mm)	
49-SB8S	49-SB8U	8" (203 mm)	
49-SB10S	49-SB10U	10" (25.4 cm)	.120" to .130"
49-SB12S	49-SB12U	12" (30.5 cm)	
49-SB14S	49-SB14U	14" (35.6 cm)	
49-SB16S	49-SB16U	16" (40.6 cm)	
49-SB18S	49-SB18U	18" (45.7 cm)	.140" to .150"
49-SB20S	49-SB20U	20" (50.8 cm)	
49-SB22S	49-SB22U	22" (55.9 cm)	
49-SB24S	49-SB24U	24" (61.0 cm)	
49-SB36S	49-SB36U	36" (91.4 cm)	—
49-SB48S	49-SB48U	48" (122.0 cm)	—



*Note: Please specify arbor diameter when ordering.

Note: Larger size blades are available, please inquire.

Mounted Saw Blades

- One-piece construction, 2-1/2" overall shank length.

40/60 Grit - 1/8" Return			
Part Number Slotted*	Part Number Unslotted*	Outside Diameter	Plated Thickness (Kerf)
49-MS3/4S	49-MS3/4U	3/4" (19 mm)	.080" to .100"
49-MS1S	49-MS1U	1" (25 mm)	
49-MS1-1/4S	49-MS1-1/4U	1-1/4" (32 mm)	
49-MS1-1/2S	49-MS1-1/2U	1-1/2" (38 mm)	
49-MS2S	49-MS2U	2" (51 mm)	
49-MS2-1/2S	49-MS2-1/2U	2-1/2" (64 mm)	
49-MS3S	49-MS3U	3" (76 mm)	
49-MS3-1/2S	49-SMS-1/2U	3-1/2" (89 mm)	.102" to .130"
49-MS4S	49-MS4U	4" (102 mm)	
49-MS4-1/2S	49-MS4-1/2U	4-1/2" (114 mm)	
49-MS5S	49-MS5U	5" (127 mm)	.130" to .150"
49-MS6S	49-MS6U	6" (152 mm)	



*Note: Please specify arbor diameter when ordering.

COMPOSITE CUTTING TOOLS



P.B.S. Diamond Plated Hole Saws

- MHS series, "Black & Decker" arborless.
- Furnished with windows & slots.
- 1-1/2" drilling depth (inside depth).

Note: Larger sizes are available, please inquire.

40/60 Grit - 1/8" Return	
Part Number	Head Diameter
49-MHS1/2	1/2" (13 mm)
49-MHS9/16	9/16" (14 mm)
49-MHS5/8	5/8" (16 mm)
49-MHS3/4	3/4" (19 mm)
49-MHS7/8	7/8" (22 mm)
49-MHS1	1" (25 mm)
49-MHS1-1/16	1-1/16" (27 mm)
49-MHS1-1/8	1-1/8" (29 mm)
49-MHS1-3/16	1-3/16" (30 mm)
49-MHS1-1/4	1-1/4" (32 mm)
49-MHS1-3/8	1-3/8" (35 mm)
49-MHS1-1/2	1-1/2" (38 mm)

40/60 Grit - 1/8" Return	
Part Number	Head Diameter
49-MHS1-3/4	1-3/4" (44 mm)
49-MHS1-7/8	1-7/8" (48 mm)
49-MHS2	2" (51 mm)
49-MHS2-1/4	2-1/4" (57 mm)
49-MHS2-1/2	2-1/2" (64 mm)
49-MHS3	3" (76 mm)
49-MHS3-1/4	3-1/4" (83 mm)
49-MHS3-1/2	3-1/2" (89 mm)
49-MHS4	4" (102 mm)
49-MHS4-1/4	4-1/4" (108 mm)
49-MHS4-1/2	4-1/2" (114 mm)
49-MHS5	5" (127 mm)

Hole Saw Arbors



- For MHS series hole saws above.
- Quick release for change of hole saws without removing arbor from chuck.
- Setscrew body for pilot drill adjustment.
- Also available with pilots, please inquire.

Part Number	Fits Hole Saw Diameter	Screw Thread	Shank Size	Chuck Size
49-NA-01	9/16" to 1-3/16"	1/2"-20	1/4"	3/8"
49-NA-06	1-1/4" to 6"	5/8"-18	7/16"	1/2"

P.B.S. Diamond Plated Integral Shank Hole Saws



- HS series, integral shank.
- Furnished with windows & slots.
- 2" drilling depth (inside depth).

Larger sizes are available, please inquire.

40/60 Grit - 1/8" Return	
Part Number	Head Diameter
49-HS5	1/2" (13 mm)
49-HS6	3/4" (19 mm)
49-HS7	7/8" (22 mm)
49-HS8	1" (25 mm)
49-HS9	1-1/4" (32 mm)

40/60 Grit - 1/8" Return	
Part Number	Head Diameter
49-HS10	1-1/2" (38 mm)
49-HS11	1-3/4" (44 mm)
49-HS12	2" (51 mm)
49-HS13	2-1/4" (57 mm)
49-HS14	2-1/2" (64 mm)

40/60 Grit - 1/8" Return	
Part Number	Head Diameter
49-HS15	2-3/4" (70 mm)
49-HS16	3" (76 mm)
49-HS17	4" (102 mm)
49-HS18	5" (127 mm)

P.B.S. Diamond Plated Routers

- 2-1/2" shank length.



*Note: Please specify shank diameter. On .750" & larger outside dia. routers, min. shank diameter is 1/2".

Note: Larger sizes are available, please inquire.

40/60 Grit					
Part No. Unfluted, Square End*	Part No. Unfluted, Radius End*	Part No. Fluted, Square End*	Part No. Fluted, Radius End*	Outside Diameter	Head Length
49-R1US	49-R1UR	—	—	1/8" (3.2 mm)	1/4" (6.35 mm)
49-R2US	49-R2UR	—	—		1/2" (13 mm)
49-R3US	49-R3UR	49-R3FS	49-R3FR	1/4" (6.35 mm)	1/4" (6.35 mm)
49-R4US	49-R4UR	49-R4FS	49-R4FR		1/2" (13 mm)
49-R5US	49-R5UR	49-R5FS	49-R5FR		3/4" (19 mm)
49-R6US	49-R6UR	49-R6FS	49-R6FR		1" (25 mm)
49-R7US	49-R7UR	49-R7FS	49-R7FR		1-1/2" (38 mm)
49-R8US	49-R8UR	49-R8FS	49-R8FR		3/8" (10 mm)
49-R9US	49-R9UR	49-R9FS	49-R9FR	3/8" (10 mm)	1/2" (13 mm)
49-R10US	49-R10UR	49-R10FS	49-R10FR		3/4" (19 mm)
49-R11US	49-R11UR	49-R11FS	49-R11FR		1" (25 mm)
49-R12US	49-R12UR	49-R12FS	49-R12FR		1-1/2" (38 mm)
49-R13US	49-R13UR	49-R13FS	49-R13FR		1/2" (13 mm)
49-R14US	49-R14UR	49-R14FS	49-R14FR		3/4" (19 mm)
49-R15US	49-R15UR	49-R15FS	49-R15FR	1/2" (13 mm)	1" (25 mm)
49-R16US	49-R16UR	49-R16FS	49-R16FR		1-1/2" (38 mm)
49-R17US	49-R17UR	49-R17FS	49-R17FR		2" (51 mm)
49-R18US	49-R18UR	49-R18FS	49-R18FR		1/2" (13 mm)
49-R19US	49-R19UR	49-R19FS	49-R19FR		3/4" (19 mm)
49-R20US	49-R20UR	49-R20FS	49-R20FR		5/8" (16 mm)
49-R21US	49-R21UR	49-R21FS	49-R21FR	1-1/2" (38 mm)	
49-R22US	49-R22UR	49-R22FS	49-R22FR	2" (51 mm)	
49-R23US	49-R23UR	49-R23FS	49-R23FR	1/2" (13 mm)	
49-R24US	49-R24UR	49-R24FS	49-R24FR	3/4" (19 mm)	3/4" (19 mm)
49-R25US	49-R25UR	49-R25FS	49-R25FR		1" (25 mm)
49-R26US	49-R26UR	49-R26FS	49-R26FR		1-1/2" (38 mm)
49-R27US	49-R27UR	49-R27FS	49-R27FR		2" (51 mm)
49-R28US	49-R28UR	49-R28FS	49-R28FR		1" (25 mm)
49-R29US	49-R29UR	49-R29FS	49-R29FR	3/4" (19 mm)	
49-R30US	49-R30UR	49-R30FS	49-R30FR	1" (25 mm)	
49-R31US	49-R31UR	49-R31FS	49-R31FR	1-1/2" (38 mm)	
49-R32US	49-R32UR	49-R32FS	49-R32FR	2" (51 mm)	
49-R33US	49-R33UR	49-R33FS	49-R33FR	2" (51 mm)	
49-R34US	49-R34UR	49-R34FS	49-R34FR		2" (51 mm)

COMPOSITE CUTTING TOOLS

P.B.S. Diamond Plated Twist Drills



- All drills are general purpose, standard length.

Note: Other diameters & longer returns are available, please inquire.

40/60 Grit - 3/16" Return	
Part Number	Head Diameter
49-TD1	1/8" (3.2 mm)
49-TD2	1/4" (6.35 mm)
49-TD3	3/8" (10 mm)
49-TD4	7/16" (11 mm)
49-TD5	1/2" (13 mm)

40/60 Grit - 3/16" Return	
Part Number	Head Diameter
49-TD6	5/8" (16 mm)
49-TD7	3/4" (19 mm)
49-TD8	7/8" (22 mm)
49-TD9	1" (25 mm)

P.B.S. Diamond Plated Integral Pilot Countersinks



***Note:** Please specify grit size (30/40, 40/60, 60/80, 120/140 or 220/270), unslotted or slotted (with number of slots) & pilot diameter when ordering.

Many other options available, please inquire.

1/4"-28 Thread - 100° Cutter Angle		
Part Number*	Outside Diameter	Overall Length
NPC-38C-P	3/8" (10 mm)	1" (25 mm)
NPC-50C-P	1/2" (13 mm)	1/2" (13 mm)
NPC-62C-P	5/8" (16 mm)	5/8" (16 mm)

P.B.S. Diamond Plated Jigsaw Blades



Part No.	Fits Jig Saws	Overall Length
49-300	Black & Decker & Competitive	3" (76 mm)
49-301	Rockwell Bayonet	3" (76 mm)
49-303	Rockwell Tiger & Competitive	4" (102 mm)

Part No.	Fits Jig Saws	Overall Length
49-304	Black & Decker & Competitive	4" (102 mm)
49-302	Bosch Style	3" (76 mm)
49-305	Bosch Style	4" (102 mm)

Flexible Diamond Hand Sanding Pads

- These diamond hand sanding pads work best when used wet.
- Excellent for composite work.



Part Number	Grit	Type	Size
92350	70	Plated \ Flexible (for grinding)	2-1/2" x 4-1/4" (64 x 108 mm)
92351	120		
92352	220		
92353	400		
92354	600		
92450	220	Resin \ Flexible (for finishing)	
92451	600		
92452	1,800		
92453	3,500		

CCD Premier Router Bits

- The finest bits designed specifically to work with composites.
- Job tested & proven.
- Many other styles available, please inquire.



Part Number*	Application	Construction	Geometry
02-SR1	Aluminum Honeycomb & Plastic Profiling	Abrasion Resistant Solid Micrograin Carbide	High radial rake angle with large chip space. One or two flute option available.
02-SR2			
02-MPR	Aluminum Honeycomb, Sheet & Plastic	Abrasion Resistant Solid Micrograin Carbide	Two flute slow left hand helix with large chip space. Polished flutes & plunging capability.
02-PD2	Carbon Glass Fiber & Plastic Profiling	PCD Cutting Edges On A Solid Carbide Body	Positive radial & neutral axial geometry to minimize delamination. Two styles, drilling & profiling.
02-PP2			
02-OSR	Clad Aluminum Honeycomb	Abrasion Resistant Solid Micrograin Carbide	Inward cutting teeth to eliminate delamination. Center cutting for plunging.
02-GSR	Carbon & Glass Fiber	Abrasion Resistant Solid Micrograin Carbide	Natural helix to minimize delamination. Center cutting for plunging.
02-DSR	Aramid laminate & General Purpose	Abrasion Resistant Solid Micrograin Carbide	Scissor action to minimize delamination. Center cutting for plunging.
02-ASR	Solid Aramid Fiber	Abrasion Resistant Solid Micrograin Carbide	Scissor action to minimize delamination.
02-AHR	Aramid Honeycomb Profiling	Abrasion Resistant Solid Micrograin Carbide	Spiral knife edge to produce clean surface.
02-DCS	Abrasive Non-Metallic Materials	Abrasion Resistant Solid Micrograin Carbide	Smooth multi-point cutting action.

*Note: When ordering please specify length & diameter required. For more information, please inquire.

USATCO 27 Piece Pro Composite Kit

- Equipped with the tools necessary for major composite repair.
- Items included are the latest currently available.

Kit Includes:

23,000 RPM Grinder (12L2580-01), Router Attachment (14-2180), Standard Template Guide (14-2400), Right Angle Grinder (12L1280-36), Pistol Grip Reversible Drill (14CNL91-51), High-Speed Adjustable Micro-Stop Countersink Body (02-551), Diamond Plated Fabric Hand Shear with 10" Blades (04-330), Plastic Kit Box (62-54404)

Accessories Included:

100° or 130° PCD Diamond Tipped Cutter (Specify); #10, #21, #30 & #40 Replaceable Pilots (2 Each); 1/4" Shank Solid Carbide Kevlar Router Bit; 1/4" Shank Solid Carbide Graphite Router Bit; 1/4" Shank Solid Carbide Fiberglass Router Bit; 1/4" Shank Solid Carbide Honeycomb Router Bit (Minimizes Delamination); 1/4" Shank Diamond Router Bit, 1" Cutting Length, 1/4" Diameter; 1/4" Shank Diamond Plated Hole Saws, 1-1/2", 2-1/2" & 3" Diameters; Safety Goggles & Respirator



Part Number	Description
53-70458	Complete Kit