COREHOG®

Innovative Tools For Innovative Materials

Advanced Composite Cutting Tools to Take You Further at the Spindle

Honeycomb Core | Sandwich Panel | CFRP | Multi-Laminate | Filled | Multi-Plastics

2022 Product Catalog

COREHOG®

Delivering Advanced Composite Cutting Tools

Composite machining presents a unique set of challenges. At CoreHog, we've risen to the occasion. Our tools are on the forefront of technology, exhibiting the most modern geometries available for the machining of composite, CFRP, and honeycomb core materials.

Taking You Further at the Spindle

At CoreHog, we pride ourselves on our ability to elevate your composite cutting skill. We design, engineer, and manufacture our products specifically to avoid common composite cutting woes, such as delamination and push-out, uncut fibers, and tear-out.

Making You an Industry Leader

We're proud of our loyal customers – learning of their successes is what keeps us fueled. Machinists who choose CoreHog are at the pinnacle of their craft, and consistently win in markets ranging from Aerospace, Space Systems, Defense Systems, Auto Racing, and Naval Technologies.

Harvey Performance Company combines the leading Harvey Tool, Helical Solutions, Micro 100, Titan USA, and CoreHog brands to provide world class tooling, unmatched service, and innovative solutions that increase productivity for our customers.

HARVEY TOOL

Think Harvey Tool First

More than 26,000 miniature and specialty end mills. Ship today, in your machine tomorrow.

HARVEY PERFORMANCE COMPANY

Helical

Let Helical Impress You

Material-optimized high performance carbide end mills. Run faster, push harder, machine smarter.

MICRO 100

Make More with Micro 100

Exceptional quality turning tools designed for durability and performance in a range of difficult-to-machine materials.

TITAN USA

MADE IN THE U.S.A.

Trust in Titan USA

Broad assortment of premium quality, fully stocked, cutting tools of exceptional value.

COREHOG

Innovative Tools for Innovative Materials

The industry's most innovative and advanced composite and honeycomb core cutting tools.

Innovative Tools for Innovative Materials

165 NEW Tools

Vertical Wall Finishing Tools - begins pg 23

CoreHoggers - Left Hand
Modular Pogo Tools
Arbor

CFRP Router Bits - begins pg 29

CFRP Router Bits - Burr Style - Upcut
CFRP Router Bits - Burr Style - Downcut
CFRP Router Bits - End Mill Style - Upcut
CFRP Router Bits - Drill Point Style - Upcut

CFRP MAX Router Bits - Burr Style - Upcut
CFRP MAX Router Bits - End Mill Style - Upcut
CFRP MAX Router Bits - Drill Point Style - Upcut

Burr Tools - begins pg 40

Burr Style
End Mill Style
Drill Point Style

MILLING

Composites - **Honeycomb** 08

Composites - **Sandwich Panel** 25

Composites - **Multi-Laminate** 29

Composites - **Filled** 40

Plastics - **Multi-Plastics** 43

Assembly Style Finishing Tools

Achieve a premium finish on your honeycomb core material with CoreHog's Small, Medium, or Large Size Finishing Tools. Featuring an innovative CoreHogger and Coreslicer, these products assemble to deliver unparalleled results.

Read more on pg 6-7

DRILLING

Composites - **Multi-Laminate & Filled** 47

Coatings Chart

	DLC	CVD	PCD	ZrN
	Diamond-Like Coating has extremely sharp edges, improving lubricity and wear resistance in low temperature threshold applications of non-ferrous materials.	True Crystalline Diamond coating is grown directly onto a cutting tool, dramatically improving hardness, abrasion resistance, and feed rates in non-ferrous machining applications.	Thick diamond layer brazed onto solid carbide body provides outstanding micro hardness and abrasion resistance in low temperature threshold applications of non-ferrous materials.	Provides higher hardness, lubricity, and abrasion resistance over uncoated tooling when machining a variety of non-ferrous materials.
Max. Working Temp.	750° F	1,100° F	1,100° F	1,100° F
Microhardness (HV 0.05)	7,954 - 8,973 (78 - 88 GPa)	8,973 - 9,993 (88 - 98 GPa)	8,973 - 9,993 (88 - 98 GPa)	2,243 (22 GPa)
Coeffecient of Friction	.10	.05 - .30	.05 - .20	.40
Coating Thickness	0.5 - 3.0 µm	3-18 µm	.010" - .030" Solid PCD Layer	2 - 5 µm
Structure	Mono-Layer	True Crystalline CVD Multi-Layer	Polycrystalline Diamond	Mono-Layer
Coating Color	Charcoal / Gray	Gray	Gray / Black	Light Gold / Champagne

	TiN	TiCN	TiAlN
	High hardness general purpose coating improves overall tool life and lubricity when machining ferrous materials and in applications that do not generate excessive heat.	Maintains high surface hardness and increases abrasion wear resistance to improve overall tool life in lower temperature applications.	High heat and wear resistant coating that maintains high surface hardness at elevated temperatures for improved tool life and faster feed rates when machining ferrous materials.
Max. Working Temp.	1,000° F	750° F	1,300° F
Microhardness (HV 0.05)	2,400 (24 GPa)	3,500 (34 GPa)	3,400-3,600 (24-36 GPa)
Coeffecient of Friction	.40	.25	.60
Coating Thickness	2- 5 µm	1-4 µm	1 - 4 µm
Structure	Mono-layer	Mono-Layer	Multi-layer
Coating Color	Gold	Gray / Silver	Dark Gray / Black

Increase Cutting Tool Performance and Wear

Increase cutting tool performance in wear resistance, abrasion prevention, corrosion, and oxidation at high temperatures.

MILLING

Begins on page 8

Composites - Honeycomb

Composites - Sandwich Panel

Composites - Multi-Laminates

Composites - Filled

Plastics - Multi-Plastic

DRILLING

Begins on page 47

Composites - Multi-Laminate & Filled

Medium Size Finishing Assembly - begins pg 14

Modular Rebating Assembly - begins pg 27

CFRP Router Bits - begins pg 29

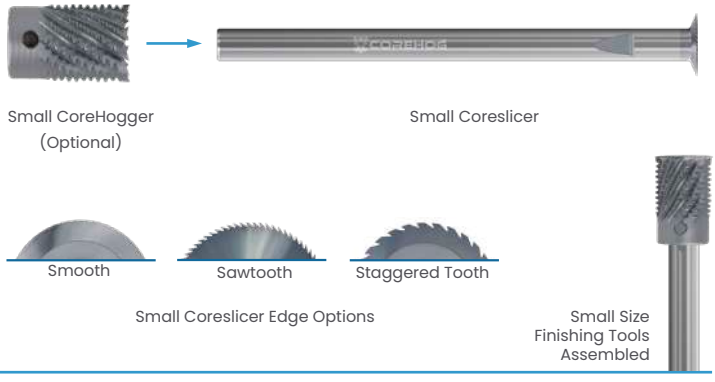
Helical Step Drill - pg 55

Assembly Pairing Guide

CoreHog's assembly style tooling allows for the selection of tools designed for specific materials, densities, and manufacturing styles. Different configurations increase efficiency, decrease costs, and provide you with machining flexibility.

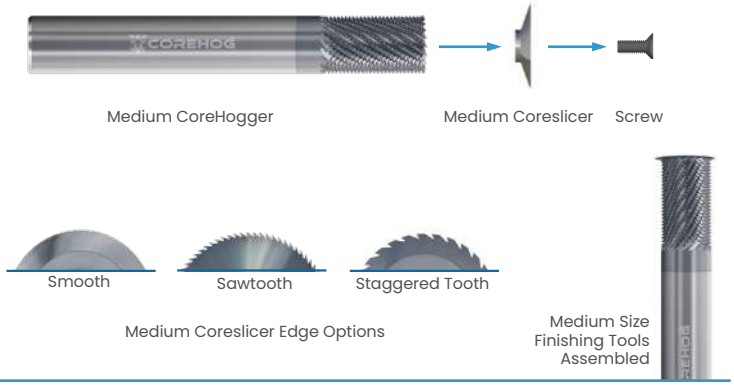
Small Size Finishing Tools
pg 13

Optimized for machining in small closed features, such as pockets, joggles, and closed walls, these assembly style tools are engineered for the superior finishing of honeycomb core materials.



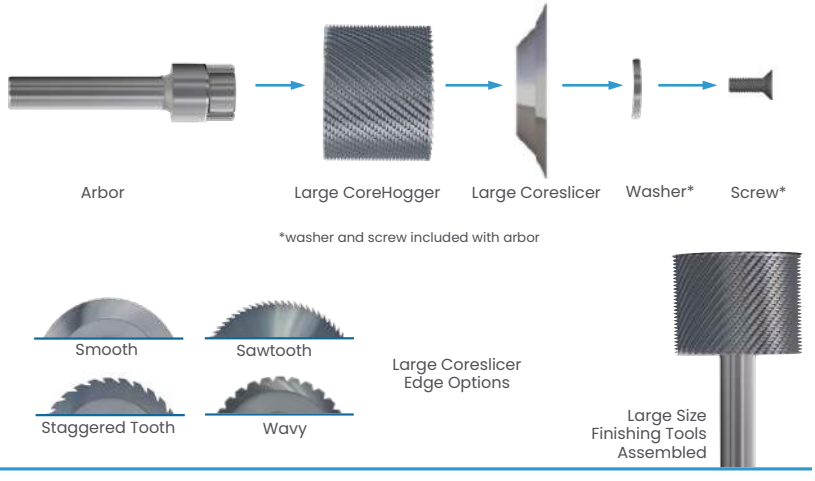
Medium Size Finishing Tools
pg 14

Designed for finishing honeycomb core materials, this assembly style CNC tooling is engineered for shaping smaller complex surfaces, bevels, and external radii.



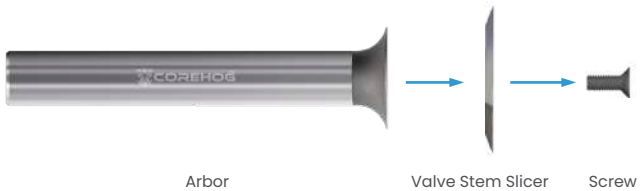
Large Size Finishing Tools
pg 16

Designed to vastly reduce cycle times while finishing honeycomb core materials, this assembly style tooling removes large volumes of material quickly, while providing excellent surface finish and keeping tool pressure and heat low.



Valve Cutters
pg 19

Assembly tooling engineered for machining honeycomb core materials and finishing thin features such as bevels and knife edge parts.



Valve Cutter Edge Options

Valve Cutters Assembled

Modular Rebating Tools
pg 27

The unique design of this modular-style tooling reduces setups, cost per cutter, and allows for flexibility with varying sandwich panel configurations.

Modular Rebating Tools Assembled

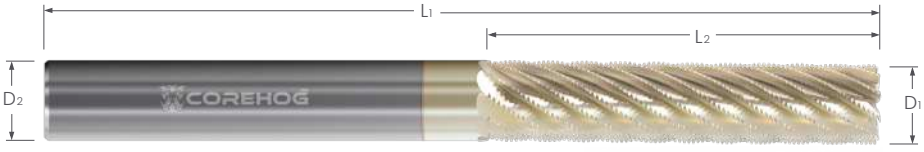
Coreslicer Edge Options

	Smooth	Staggered Tooth	Sawtooth	Wavy
materials	lighter density honeycomb core materials like Kevlar®, Nomex®, and aluminum core.	honeycomb core materials with densities of 6 pounds or higher like Kevlar® or Nomex®	honeycomb core materials with densities of 6 pounds or higher such as aluminum core.	heavier density materials like Kevlar®, Nomex®, and aluminum core
benefits	The Smooth Edge geometry is specially designed to produce flag-free finishes on large surface area parts.	The Staggered Tooth Edge geometry is designed for increased MRR while maintaining an excellent finish	The Sawtooth Edge geometry is engineered to increase MRR while maintaining an excellent finish	The Wavy Edge geometry is engineered to finish heavier density materials. Useful when machining parts that contain bond lines.

Honeycomb Core Roughing Tools
CoreHoggers - Flat End

NEW

- Designed for increased productivity and increased MRR when roughing high density honeycomb core materials
- Used for bulk material removal of honeycomb composite materials including Nomex®, Kevlar®, Phenolic, and Glass
- Provides excellent performance when roughing and finishing foam materials like Rohacell®, Poly Foam, and Styrofoam
- Center cutting
- Complex geometry reduces tool pressure by utilizing sharp sheering action which results in less part movement and increased speeds and feeds
- ZrN coating offers higher hardness and added lubricity for maximum performance
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	ZrN Coated		
D_1	L_2	D_2	L_1	Tool #	Reference	
.250	1.250	.250	2.500	**C12463**	25CH	
.250	1.250	.250	3.000	**C61211**	25CH-3	
.250	1.250	.250	4.000	**C13568**	25CH-4	
.250	2.750	.250	6.000	**C93954**	25CH-6	NEW!
.375	2.000	.375	4.000	**C21583**	375CH	
.500	2.000	.500	4.000	**C61071**	5CH	
.500	3.000	.500	6.000	**C93134**	5CH-6	
16 mm	50.8 mm	16 mm	110 mm	**C42950**	16MMCH	
.750	2.000	.750	4.000	**C99519**	75CH	
.750	3.000	.750	6.000	**C84370**	75CH-6	
.750	4.000	.750	8.000	**C62278**	75CH-XL	
20 mm	80 mm	20 mm	125 mm	**C68953**	20MMCH	
1.000	2.000	1.000	4.000	**C20991**	1CH	
1.000	3.000	1.000	6.000	**C84163**	1CH-6	

NEW

Honeycomb Core Roughing Tools
CoreHoggers - Flat End - Reduced Shank

- Large diameter design for increased productivity and increased MRR when cutting honeycomb core materials
- Used for bulk material removal of honeycomb composite materials including Nomex®, Kevlar®, Phenolic, and Glass
- Provides excellent performance when roughing and finishing foam materials like Rohacell®, Poly Foam, and Styrofoam
- Complex geometry reduces tool pressure by utilizing sharp sheering action which results in less part movement and increased speeds & feeds
- TiCN coating for extended tool life and improved wear resistance
- Center cutting
- Precision manufactured in the USA

	Diameter	Length of Cut	Shank Diameter	Overall Length	Substrate	TiCN Coated	
	D_1	L_2	D_2	L_1		Tool #	Reference
NEW!	2.500	1.875	.750	4.500	high speed steel	C26619	LM25CS45
NEW!	2.500	1.875	.750	4.500	carbide	C62908	LM25CS45-CARB

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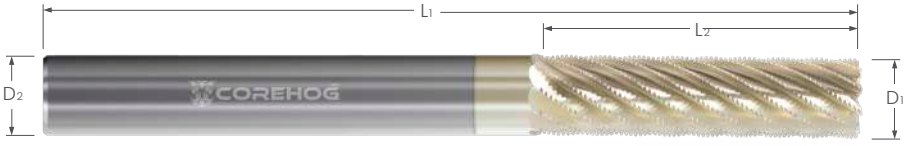
Honeycomb Core Roughing Tools
CoreHoggers - Flat End for Light Density Core

- Designed for increased productivity and increased MRR when cutting light density honeycomb core materials
- Used for bulk material removal of honeycomb composite materials including Nomex®, Kevlar®, Phenolic, and Glass
- Provides excellent performance when roughing and finishing foam materials like Rohacell®, Poly Foam, and Styrofoam
- ZrN coating offers higher hardness and added lubricity for maximum performance
- Solid carbide
- Precision manufactured in the USA

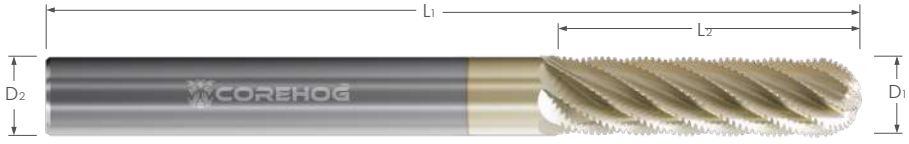


Diameter	Length of Cut	Shank Diameter	Overall Length	ZrN Coated	
D_1	L_2	D_2	L_1	Tool #	Reference
.250	1.250	.250	2.500	**C65069**	25CHF
.250	1.250	.250	4.000	**C51558**	25CHF-4
.500	2.000	.500	4.000	**C61225**	5CHF
.750	2.000	.750	4.000	**C21033**	75CHF
.750	3.000	.750	6.000	**C37889**	75CHF-6

NEW

Honeycomb Core Roughing Tools
CoreHoggers - Ball End

- Designed for increased productivity and increased MRR when roughing high density honeycomb core materials
- Ball end profile optimized for shaping and roughing complex surfaces
- Used for bulk material removal of honeycomb composite materials including Nomex®, Kevlar®, Phenolic, and Glass
- Provides excellent performance when roughing and finishing foam materials like Rohacell®, Poly Foam, and Styrofoam
- ZrN coating offers higher hardness and added lubricity for maximum performance
- Solid carbide
- Precision manufactured in the USA

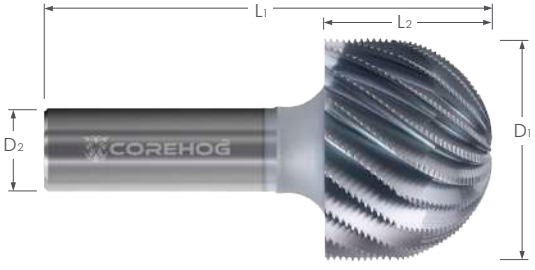


	Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1	ZrN Coated Tool #	ZrN Coated Reference
	.250	1.250	.250	2.500	**C37430**	25BACH
	.250	1.250	.250	3.000	**C16770**	25BACH-3
	.250	1.375	.250	4.000	**C11348**	25BACH-4
NEW!	.250	1.375	.250	6.000	**C60420**	25BACH-6
	.375	2.000	.375	4.000	**C70972**	375BACH
	.500	2.000	.500	4.000	**C28059**	5BACH
	.500	3.000	.500	6.000	**C95202**	5BACH-6
NEW!	16 mm	50.8 mm	.630	110 mm	**C41998**	16MMBACH
	.750	2.000	.750	4.000	**C69424**	75BACH
	.750	3.000	.750	6.000	**C50318**	75BACH-6
	.750	3.000	.750	8.000	**C96800**	75BACH-XL
NEW!	20 mm	80 mm	.787	125 mm	**C59471**	20MMBACH
	1.000	2.000	1.000	4.000	**C34824**	1BACH
	1.000	3.000	1.000	6.000	**C90082**	1BACH-6

Honeycomb Core Roughing Tools
CoreHoggers - Ball End - Reduced Shank

NEW

- Large diameter design for increased productivity and increased MRR when cutting honeycomb core materials
- Ball end profile optimized for shaping and roughing surfaces
- Used for bulk material removal of honeycomb composite materials including Nomex®, Kevlar®, Phenolic, and Glass
- Provides excellent performance when roughing and finishing foam materials like Rohacell®, Poly Foam, and Styrofoam
- TiCN coating for extended tool life and improved wear resistance
- Center cutting
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Substrate	TiCN Coated		
D_1	L_2	D_2	L_1		Tool #	Reference	
2.000	1.500	.750	4.000	high speed steel	C41016	LM20CS4	NEW!
2.000	1.500	.750	4.000	carbide	C42897	LM20CH4-CARB	NEW!

In The Loupe : Machinist Blog
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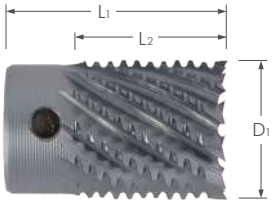
Small Size Finishing Tools
CoreHoggers

- Must be paired with Small Coreslicer for use. For proper pairing, reference "Assembly Pairing Guide"
- Eliminates risk of material wrapping around the spindle by disintegrating them as they aproach the face of the slicer
- Long reach design optimized for reaching into small, closed features such as pockets, joggles, and closed walls
- TiCN coating for extended tool life and improved wear resistance
- High speed steel
- Precision manufactured in the USA

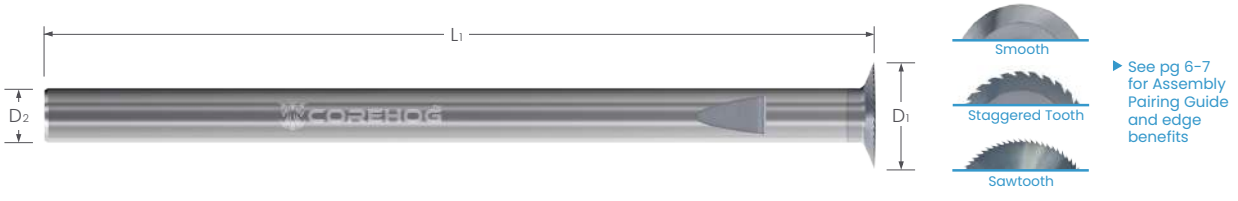


▶ See pg 6-7 for Assembly Pairing Guide

Diameter D_1	Length of Cut L_2	Overall Length L_1	Assembly Size Pairing	TiCN Coated	
				Tool #	Reference
.350	.500	.750	.393	**C74686**	10MH
.475	.500	.750	.500	**C81725**	5H

Small Size Finishing Tools
Coreslicers

- Engineered for the superior finishing of honeycomb core materials
- Optimized for reaching into small, closed features such as pockets, joggles, and closed walls
- Pair with a Small CoreHogger for increased performance
- Whistle notch for Small CoreHogger assembly set screw
- TiCN coating for extended tool life and improved wear resistance
- Solid carbide
- Precision manufactured in the USA



▶ See pg 6-7 for Assembly Pairing Guide and edge benefits

Diameter D_1	Shank Diameter D_2	Overall Length L_1	Edge Type	Assembly Size Pairing	TiCN Coated	
					Tool #	Reference
.196 (5 mm)	.118 (3 mm)	1.417 (36 mm)	Smooth	-	**C39016***	5MCS
.393 (10 mm)	.196 (5 mm)	4.000	Smooth	.393	**C37473**	10MCS
.393 (10 mm)	.196 (5 mm)	4.000	Staggered Tooth	.393	**C60175**	10MCSC
.393 (10 mm)	.196 (5 mm)	4.000	Sawtooth	.393	**C68738**	10MCST
.500	.250	4.000	Smooth	.500	**C24361**	5CS
.500	.250	4.000	Staggered Tooth	.500	**C16343**	5CSC
.500	.250	4.000	Sawtooth	.500	**C27014**	5CST

* Coreslicer designed with no whistle notch for independent use without CoreHogger.

Medium Size Finishing Tools
CoreHoggers

- Must be paired with Medium Coreslicer for use. For proper pairing, reference "Assembly Size Pairing" below
- Optimized for shaping smaller complex surfaces, bevels, and external radii in honeycomb core materials
- Solid carbide versions available for superior tool life
- High speed steel
- TiCN coating for extended tool life and improved wear resistance
- Precision manufactured in the USA

▶ See pg 6-7 for Assembly Pairing Guide

Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1	Assembly Size Pairing	Uncoated		TiCN Coated	
					Tool #	Reference	Tool #	Reference
.472 (12 mm)	1.3	.375	3.3	.500			**C32428**	12MH
16 mm	30 mm	16 mm	120 mm	.750 / 1.000	**C51776***	16MMHA-CARB		
.669 (17 mm)	1.000	.375	3.000	.750 / 1.000			**C23037**	17RZR375
.669 (17 mm)	1.300	.500	3.500	.750 / 1.000			**C38452**	17RZR
.669 (17 mm)	1.300	.500	4.750	.750 / 1.000			**C20657**	17RZRXL
.875 (7/8)	1.500	.500	3.500	1.000			**C53955**	1HA
.875 (7/8)	1.300	.500	4.000	1.000	**C11495***	1HA-CARB		

*Solid carbide

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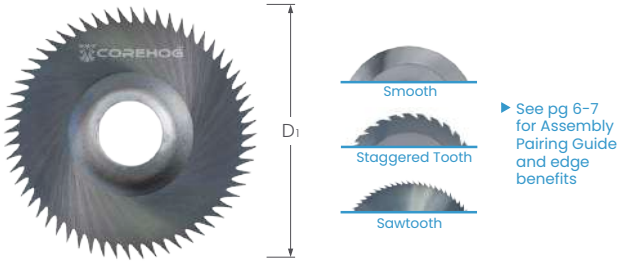
Medium Size Finishing Tools
Coreslicers

- Must be paired with Medium CoreHogger for use. For proper pairing, reference “Assembly Size Pairing” below
- Engineered for finishing smaller parts and features of honeycomb core materials
- Stocked in different edge types to provide excellent finishes in Aluminum, Nomex®, and Kevlar® cores
- DLC coating for optimal performance
- Solid carbide
- Precision manufactured in the USA



▶ See pg 6-7 for Assembly Pairing Guide and edge benefits

Diameter D1	Edge Type	Assembly Size Pairing	DLC Coated	
			Tool #	Reference
.500	Smooth	.472	**C81787**	5CS-CARB
.750	Smooth	16 mm / .669	**C36226**	75CS
.750	Staggered Tooth	16 mm / .669	**C59966**	75CSC
.750	Sawtooth	16 mm / .669	**C15072**	75CST
1.000	Smooth	16 mm / .669 / .875	**C12789**	1CS
1.000	Staggered Tooth	16 mm / .669 / .875	**C11921**	1CSC
1.000	Sawtooth	16 mm / .669 / .875	**C53187**	1CST

Medium Size Finishing Tool Assembled:
Medium CoreHogger - pg 14
Medium Coreslicer - pg 15

Large Size Finishing Tools
Arbors

NEW

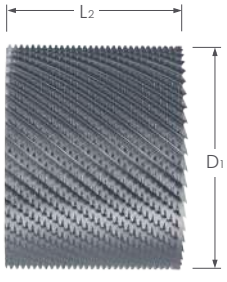
- Must be paired with Large CoreHogger and Large Coreslicer for use. For proper pairing, reference "Assembly Size Pairing" below
- Heat treated and finish ground for extremely tight tolerances in runout, concentricity, and perpendicularity
- Tightly toleranced for minimized harmonics, longer tool life, and better part finish
- Locking keys are integral to arbor for easy assembly
- High speed steel
- Precision manufactured in the USA

▶ See pg 6-7 for Assembly Pairing Guide

Shank Diameter D_2	Overall Length L_1	Assembly Size Pairing	Uncoated		
			Tool #	Reference	
12 mm	90 mm	2.000 / 63 mm / 3.000	C84383	12MMA	NEW!
.500	3.500	45 mm	C79286	45A	
.500	3.500	2.000 / 63 mm / 3.000	C87981	63A	
.625	3.500	2.000 / 63 mm / 3.000	C46720	2A	
16 mm	90 mm	2.000 / 63 mm / 3.000	C26433	16MMA	NEW!
.750	4.250	63 mm	C24685	63AEXT	

Large Size Finishing Tools
CoreHoggers - Carbide

- Must be paired with Large Coreslicer and Arbor for use. For proper pairing, reference "Assembly Size Pairing" below
- Optimized for large volume material removal of honeycomb core materials
- Standard 40° helix
- TiCN coating for extended tool life and improved wear resistance
- Custom formulated carbide for increased edge retention
- Precision manufactured in the USA

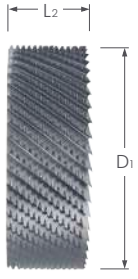


▶ See pg 6-7 for Assembly Pairing Guide

Diameter D_1	Length of Cut L_2	Assembly Size Pairing	Uncoated		TiCN Coated	
			Tool #	Reference	Tool #	Reference
44 mm	.630	45 mm	C21741	45H-CARB		
1.950	.750	2.000	C78723	2H-CARB		
1.950	1.500	2.000			C52278	2HLG-CARB
61.50 mm	.700	63 mm	C16317	63H-CARB		
61.50 mm	1.200	63 mm	C42917	63HLG_CARB		

Large Size Finishing Tools
CoreHoggers - Powdered Metal

- Must be paired with Large Coreslicer and Arbor for use. For proper pairing, reference "Assembly Size Pairing" below
- Optimized for large volume material removal of honeycomb core materials
- Heat treated powdered metal for high MRR
- Standard 40° helix
- TiCN coating for extended tool life and improved wear resistance
- DLC coating for optimal performance
- Ground from specially matched powdered metals
- Precision manufactured in the USA



▶ See pg 6-7 for Assembly Pairing Guide

Diameter D_1	Length of Cut L_2	Assembly Size Pairing	TiCN Coated		DLC Coated	
			Tool #	Reference	Tool #	Reference
44 mm	.630	45 mm	**C72191**	45H		
1.950	.750	2.000	**C21117**	2H		
1.950	1.500	2.000	**C30885**	2HLG	**C78023***	2HLG-3DEG
61.50 mm	.700	63 mm	**C80551**	63H		
61.50 mm	1.200	63 mm	**C62919**	63HLG		
2.750	.950	3.000	**C84212**	3H		

* 3° helix

NEW

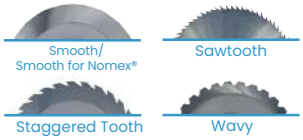
Large Size Finishing Tools
Washers

- Allows CoreHogger to be utilized for roughing applications without the need for a Coreslicer
- Not required for typical assemblies that include Large Coreslicer
- Hardened steel

	Assembly Size Pairing	Uncoated	
		Tool #	Reference
NEW!	45 mm	**C83666**	45AW
NEW!	2.000 / 63 mm / 3.000	**C69287**	2AW

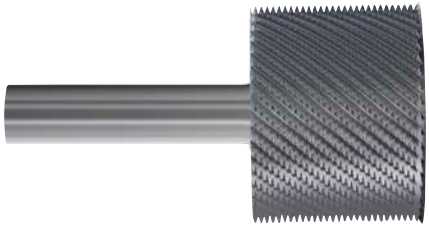
Large Size Finishing Tools
Coreslicers

- Must be paired with Large CoreHogger and Arbor for use. For proper pairing, reference "Assembly Size Pairing" below
- Designed to finish large surface area parts in honeycomb core materials
- DLC coating for optimal performance
- Custom formulated carbide for increased edge retention
- Precision manufactured in the USA



▶ See pg 6-7 for Assembly Pairing Guide and edge benefits

Diameter D1	Edge Type	Assembly Size Pairing	DLC Coated	
			Tool #	Reference
2.000	Smooth	2.000	**C12149**	2CS
2.000	Smooth for Nomex®	2.000	**C44070**	2CS-NMX
2.000	Staggered Tooth	2.000	**C40544**	2CSC
2.000	Sawtooth	2.000	**C37261**	2CST
2.000	Wavy	2.000	**C52001**	2CSW
3.000	Smooth	3.000	**C64415**	3CS
3.000	Smooth for Nomex®	3.000	**C12028**	3CS-NMX
3.000	Staggered Tooth	3.000	**C54747**	3CSC
3.000	Sawtooth	3.000	**C58561**	3CST
3.000	Wavy	3.000	**C19254**	3CSW
45 mm	Smooth	45 mm	**C84541**	45CS
45 mm	Smooth for Nomex®	45 mm	**C99863**	45CS-NMX
45 mm	Staggered Tooth	45 mm	**C25382**	45CSC
45 mm	Sawtooth	45 mm	**C87837**	45CST
45 mm	Wavy	45 mm	**C86059**	45CSW
63 mm	Smooth	63 mm	**C55856**	63CS
63 mm	Smooth for Nomex®	63 mm	**C70889**	63CS-NMX
63 mm	Staggered Tooth	63 mm	**C85026**	63CSC
63 mm	Sawtooth	63 mm	**C70694**	63CST
63 mm	Wavy	63 mm	**C20615**	63CSW



Large Size Finishing Tool Assembled:
Large Arbor - pg 16
Large CoreHogger - pg 16 & 17
Large Coreslicer - pg 18

NEW

Valve Cutters
Valve Stem Arbors

- Must be paired with Valve Stem Slicer for use. For proper pairing, reference "Assembly Size Pairing" below
- Stem design optimized for free flowing applications, eliminating grabbing when machining Honeycomb Core Materials
- High speed steel
- Precision manufactured in the USA

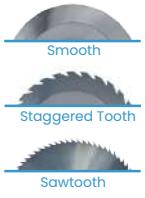
▶ See pg 6-7 for Assembly Pairing Guide

	Assembly Size	Shank Diameter D_2	Overall Length L_1	Uncoated Tool #	Uncoated Reference
	1.000	.500	3.500	**C67352**	1CFA
	1.500	.500	3.500	**C20736**	15CFA
	75 mm	.500	3.500	**C99465**	75MMCFA
	2.000 / 75 mm	.500	3.500	**C14216**	2CFA
NEW!	2.000 / 75 mm	12 mm	89 mm	**C24452**	12MMCFA

Valve Cutters
Valve Stem Slicers

NEW

- Must be paired with Valve Stem Arbor for use. For proper pairing, reference "Assembly Size Pairing" below
- Excellent for finish bevel or knife edge parts
- Often used to separate the knife edge from the surrounding material with parting off motion
- DLC coating for optimal performance
- Solid carbide
- Precision manufactured in the USA



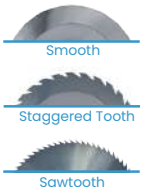
▶ See pg 6-7 for Assembly Pairing Guide and edge benefits

Diameter D_1	Edge Type	Assembly Size Paring	DLC Coated		
			Tool #	Reference	
1.000	Smooth	1.000	**C12789**	1CS	
1.000	Staggered Tooth	1.000	**C11921**	1CSC	
1.000	Sawtooth	1.000	**C53187**	1CST	
1.500	Smooth	1.500	**C34019**	15CS	
1.500	Staggered Tooth	1.500	**C22937**	15CSC	
1.500	Sawtooth	1.500	**C85199**	15CST	
2.000	Smooth	2.000	**C87352**	2CFS	
2.000	Staggered Tooth	2.000	**C62872**	2CFSC	
2.000	Sawtooth	2.000	**C41900**	2CFST	
75 mm	Smooth	75 mm	**C60434**	75MMCFS	
75 mm	Staggered Tooth	75 mm	**C39158**	75MMCFSC	
75 mm	Sawtooth	75 mm	**C42038**	75MMCFST	
3.000	Smooth	75 mm	**C26818**	3CFS	NEW!
3.000	Staggered Tooth	75 mm	**C50484**	3CFSC	NEW!
3.000	Sawtooth	75 mm	**C23286**	3CFST	NEW!

Valve Cutters Assembled:
Valve Stem Arbor - pg 19
Valve Stem Slicer - pg 20

Valve Cutters
Valve Stem Slicers With Integral Shank

- Excellent for finish bevel or knife edge parts
- Often used to separate the knife edge from the surrounding material with parting off motion
- Integral shank design provides more side clearance for machining hard to reach or high depth side cuts
- Tapered neck for added clearance
- TiCN coating for extended tool life and improved wear resistance
- Solid carbide
- Precision manufactured in the USA



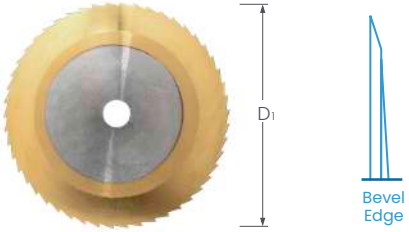
▶ See pg 6-7 for Assembly Pairing Guide and edge benefits

Diameter D_1	Shank Diameter D_2	Overall Length L_1	Edge Type	TiCN Coated	
				Tool #	Reference
.750	.250	3.000	Smooth	**C33276**	75CS-MTK
.750	.250	3.000	Staggered Tooth	**C67092**	75CSC-MTK
.750	.250	3.000	Sawtooth	**C21155**	75CST-MTK
1.000	.250	3.000	Smooth	**C15602**	1CS-MTK
1.000	.250	3.000	Staggered Tooth	**C17155**	1CSC-MTK
1.000	.250	3.000	Sawtooth	**C12535**	1CST-MTK

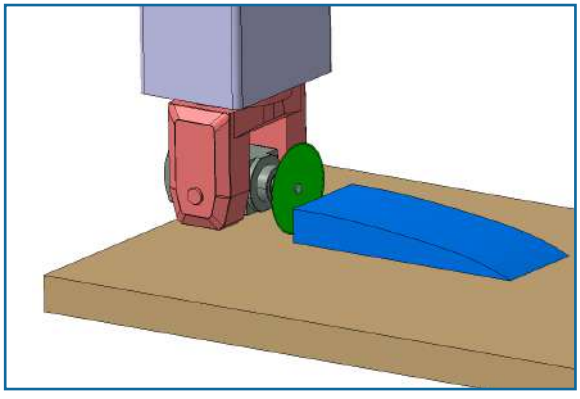
Valve Cutters
Single Bevel Core Saws

NEW

- Engineered for obtaining superior finishes on exterior walls while reducing the need of risers on fixtures
- Unique design allows the spindle to be utilized at a 90° angle to finish trim part profiles
- TiN coating for excellent hardness and improved lubricity
- Pairs well with any standard arbor
- High speed steel
- Precision manufactured in Germany



Diameter D1	Thickness	Arbor Hole	TiN Coated		
			Tool #	Reference	
250 mm	3 mm	.625	C68081	CHSAW250MMSB	NEW!
300 mm	3 mm	30 mm	C76240	CHSAW300MMSB	NEW!

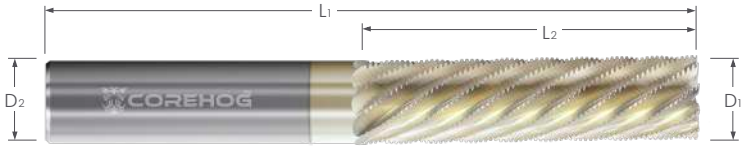


Used at 90° angle for superior finishes on exterior walls

NEW

Vertical Wall Finishing Tools
CoreHoggers - Left Hand

- Engineered to provide smooth vertical walls in aramid honeycomb materials
- Ideal for maintaining cut direction for reverse parts to prevent ribbon tearing
- Designed to produce flag-free finishes with 3 axis machines
- Minimal equipment or complex tool path motions required
- ZrN coating offers higher hardness and added lubricity for maximum performance
- Solid carbide
- Precision manufactured in the USA



	Diameter	Length of Cut	Shank Diameter	Overall Length	ZrN Coated	
	D_1	L_2	D_2	L_1	Tool #	Reference
	.250	1.250	.250	2.500	**C23956**	25CHLH
	.250	1.250	.250	4.000	**C31748**	25CHLH-4
NEW!	.250	2.750	.250	6.000	**C28371**	25CHLH-6
	.375	2.000	.375	4.000	**C46610**	375CHLH
	.500	2.000	.500	4.000	**C16350**	5CHLH
	.500	3.000	.500	6.000	**C31093**	5CHLH-6
	.750	2.000	.750	4.000	**C94437**	75CHLH
	.750	3.000	.750	6.000	**C33517**	75CHLH-6
	1.000	2.000	1.000	4.000	**C42937**	1CHLH
	1.000	3.000	1.000	6.000	**C25658**	1CHLH-6

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Vertical Wall Finishing Tools
Modular Pogo Tools

NEW

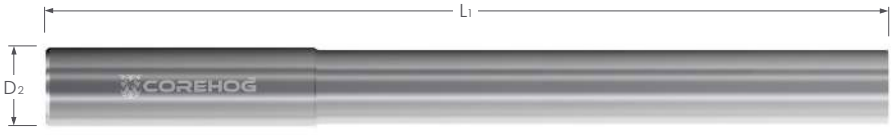
- Must be paired with Modular Pogo Arbor for use. For proper pairing, reference "Assembly Size Pairing" below
- Designed to leave pristine finish on vertical and closed pocket walls
- Through hole geometry for enhanced air purge and chip evacuation
- Optimized for use in honeycomb core materials
- Solid carbide

Diameter D_1	Overall Length L_1	Edge Type	Assembly Size Pairing	Uncoated		
				Tool #	Reference	
.500	1.300	Smooth	.500	C78051	5WCS-TC	NEW!
.500	1.300	Staggered Tooth	.500	C24773	5WCSC-TC	NEW!
.750	1.300	Smooth	.750	C64381	75WCS-TC	NEW!
.750	1.300	Staggered Tooth	.750	C16457	75WCSC-TC	NEW!

Vertical Wall Finishing Tools
Modular Pogo Tools - Arbor

NEW

- Must be paired with Modular Pogo Tool for use. For proper pairing, reference "Assembly Size Pairing" below
- Designed to leave pristine finish on vertical and closed pocket walls
- Through hole geometry for enhanced air purge and chip evacuation
- Optimized for use in honeycomb core materials
- High speed steel
- Precision manufactured in the USA

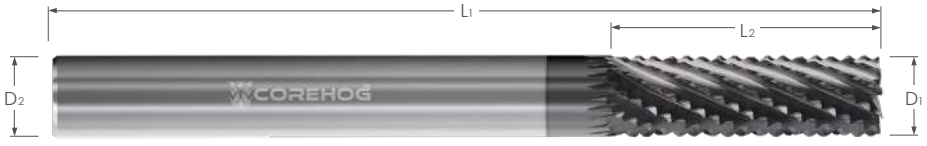


Diameter D_2	Overall Length L_1	Assembly Size Pairing	Uncoated		
			Tool #	Reference	
.500	5.700	.500	C75687	5WA-6-TC	NEW!
.750	5.700	.750	C45203	75WA-6-TC	NEW!

NEW

Sandwich Panel Cutters

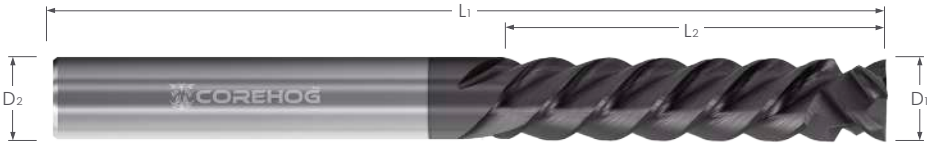
- Designed for machining sandwich panels in one pass
- Engineered to eliminate manual clean up of parts after machining, while increasing cutting rates by up to 300% over conventional cutters
- Provides excellent performance in CFRP, Nomex®, and Kevlar® bonded panels
- Optimized for outside trimming and slotting applications, or milling fastener cutouts
- Can be used in flat bottom areas when needed for bonding in fasteners
- Geometry allows for free cutting while maintaining excellent tool life and finishes with minimal flagging and fuzz
- DLC coating for optimal performance
- Solid carbide
- Precision manufactured in the USA



	Diameter D_1	Length of Cut L_2	Cut Direction	Shank Diameter D_2	Overall Length L_1	DLC Coated Tool #	DLC Coated Reference
	.250	.625	Upcut	.250	2.500	**C53435**	25SPC
NEW!	.250	1.100	Downcut	.250	2.500	**C15485**	25SPCD
	.250	1.250	Upcut	.250	2.500	**C36623**	25SPC-1.25
	.375	.875	Upcut	.375	2.500	**C22069**	375SPC
	.375	1.250	Upcut	.375	2.500	**C34819**	375SPC-1.25
	.500	1.375	Upcut	.500	3.000	**C76408**	5SPC

Sandwich Panel Cutters - Compression Cutters

- Engineered to eliminate manual clean up of parts after machining, while increasing cutting rates by up to 300% over conventional cutters
- Excellent choice for eliminating Tedlar® fray on sandwich panels skinned with Tedlar®
- Provides excellent performance in CFRP, Nomex®, and Kevlar® bonded panels
- Optimized for outside trimming and slotting applications, or milling fastener cutouts
- Can be used in flat bottom areas when needed for bonding in fasteners
- Geometry allows for free cutting while maintaining excellent tool life and finishes with minimal flagging and fuzz
- DLC coating for optimal performance
- Solid carbide
- Precision manufactured in the USA



Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1	DLC Coated Tool #	DLC Coated Reference
.250	1.125	.250	3.000	**C43415**	250TED4CMPRTR1.13L3.0-C9

Sandwich Panel Cutters - Rebating Cutters

- Optimized for removing material between face sheets on honeycomb core sandwich panel
- Designed for increased productivity and increased MRR when cutting honeycomb core materials
- Geometry reduces tearing, flagging, and fuzz, while providing a rebated area to allow for edge filling or fasteners
- Excellent for outside edges as well as internal circular or rectangular rebate requirements
- High speed steel
- Precision manufactured in the USA

Diameter	Length of Cut	Shank Diameter	Overall Length	Uncoated	
D_1	L_2	D_2	L_1	Tool #	Reference
.500	.315	.236	2.500	**C26494**	TR315X5X6MM
.500	.335	.236	2.500	**C27904**	TR335X5X6MM
.500	.600	.236	2.500	**C89350**	TR600X5X6MM
13 mm	12.7 mm	6 mm	89 mm	**C54641**	5CHRBCL
.750	.335	.236	2.500	**C96274**	TEKLRBT75X335X6MM

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Modular Rebating Tools
Sandwich Panel Cutters - Arbor

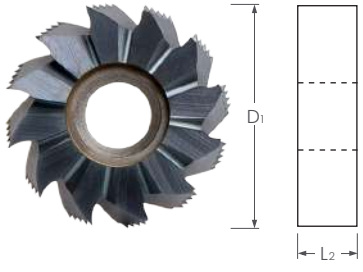
- Must be paired with Sandwich Panel Core Inserts for use
- Design reduces setups, cost per cutter, and provides flexibility with varying sandwich panel configurations
- Complex geometry reduces tearing, flagging, and fuzz while providing a rebated area to allow for edge filling or fasteners later on
- High speed steel
- Precision manufactured in the USA

▶ See pg 6-7 for Assembly Pairing Guide

Shank Diameter	Overall Length	Uncoated	
D_2	L_1	Tool #	Reference
.500	3.000	**C41516**	5APCA

Modular Rebating Tools
Sandwich Panel Cutters - Core Insert

- Must be paired with Sandwich Panel Arbors for use
- Design reduces setups, cost per cutter, and provides flexibility with varying sandwich panel configurations
- Optimized for removing material between face sheets on honeycomb core sandwich panel
- Excellent for outside edges as well as internal circular or rectangular rebate requirements
- Complex geometry reduces tearing, flagging, and fuzz while providing a rebated area to allow for edge filling or fasteners later on
- TiAlN coating for high hardness and high temperature resistance
- Solid carbide
- Precision manufactured in the USA

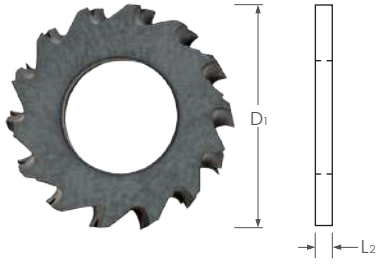


▶ See pg 6-7 for Assembly Pairing Guide

Diameter	Length of Cut	TiAlN Coated	
D_1	L_2	Tool #	Reference
.875	.160	**C18949**	875X16CHRBPCA
.875	.210	**C15104**	875X21CHRBPCA
.875	.250	**C62536**	875X25CHRBPCA
.875	.380	**C18259**	875X38CHRBPCA
.875	.450	**C27240**	875X45CHRBPCA
.875	.475	**C91505**	875X475CHRBPCA
.875	.500	**C74679**	875X50CHRBPCA
1.000	.312	**C95727**	100X312CHRBPCA

Modular Rebating Tools
Sandwich Panel Cutters - Skin Insert

- Engineered for top trimming while rebating
- Design reduces setups, cost per cutter, and provides flexibility with varying sandwich panel configurations
- Rigid build for machining in abrasive materials such as CFRP and fiberglass
- DLC coating for optimal performance
- True crystalline CVD diamond coating for extended tool life
- Solid carbide
- Precision manufactured in the USA



▶ See pg 6-7 for Assembly Pairing Guide

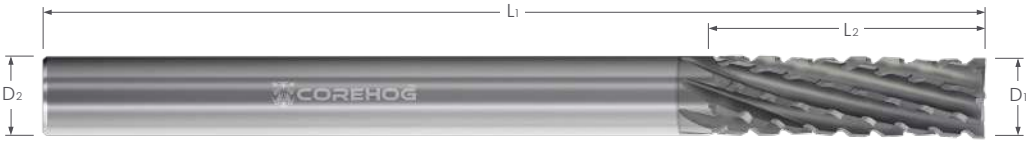
Diameter	Length of Cut	DLC Coated		CVD Coated	
D_1	L_2	Tool #	Reference	Tool #	Reference
.500	.150	**C32952**	5PCCFRU	**C22196**	5PCCFRUCVD

Modular Rebating Tools Assembled:
Sandwich Panel Cutters Arbor - pg 27
Sandwich Panel Cutters Core Insert - pg 27
Sandwich Panel Cutters Skin Insert - pg 28

NEW

CFRP Router Bits
Burr Style - Upcut

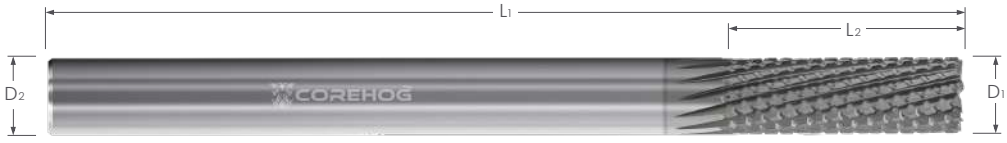
- Burr style end allows for ramping, not suited for plunge cutting
- Free cutting geometry minimizes delamination and provides excellent part finish
- Optimized for trimming CFRP and provides excellent performance in Fiberglass and S Glass
- DLC coating for optimal performance
- True crystalline CVD diamond coating for extended tool life
- Solid carbide
- Precision manufactured in the USA



	Diameter	Length of Cut	Shank Diameter	Overall Length	DLC Coated		CVD Coated	
	D_1	L_2	D_2	L_1	Tool #	Reference	Tool #	Reference
NEW!	.125	.500	.125	2.000	C29759	125CFRU	C25760	125CFRUCVD
NEW!	.188	.875	.188	2.500	C47397	1875CFRU	C32315	1875CFRUCVD
	.250	.750	.250	2.500	C17487	25CFRU	C10057	25CFRUCVD
NEW!	.250	1.000	.250	3.000			C23690	25CFRU1.00L3.00C8
	.375	1.000	.375	3.000	C22375	375CFRUL3.0	C90400	375CFRUCVDL3.0
NEW!	.375	1.000	.375	4.000			C61465	375CFRUCVDL4.0
	.500	1.500	.500	3.000	C85755	5CFRU	C85758	5CFRUCVD
	.750	2.000	.750	4.000	C35161	75CFRU	C69497	75CFRUCVD

CFRP Router Bits
Burr Style - Downcut

- Downcut geometry stabilizes part against fixture and reduces vibration by applying downward pressure
- Free cutting geometry minimizes delamination and provides excellent part finish
- Burr style end allows for ramping, not suited for plunge cutting
- Optimized for trimming CFRP and provides excellent performance in Fiberglass and S Glass
- DLC coating for optimal performance
- True crystalline CVD diamond coating for extended tool life
- Solid carbide
- Precision manufactured in the USA

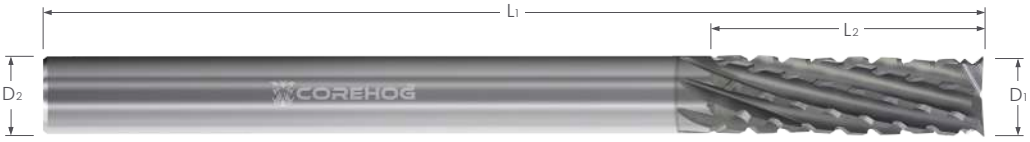


Diameter	Length of Cut	Shank Diameter	Overall Length	DLC Coated		CVD Coated	
D_1	L_2	D_2	L_1	Tool #	Reference	Tool #	Reference
.250	.750	.250	2.500	**C73670**	25CFRD	**C95468**	25CFRDCVD
.375	1.000	.375	3.000	**C66310**	375CFRDL3.0	**C87132**	375CFRDCVDL3.0
.500	1.500	.500	3.000	**C20235**	5CFRD	**C96237**	5CFRDCVD
.750	2.000	.750	4.000	**C69001**	75CFRD	**C97846**	75CFRDCVD

NEW

CFRP Router Bits
End Mill Style - Upcut

- Free cutting geometry minimizes delamination and provides excellent part finish
- Optimized for trimming CFRP and provides excellent performance in Fiberglass and S Glass
- Geometry allows for ramping and plunging
- Center cutting
- DLC coating for optimal performance
- True crystalline CVD diamond coating for extended tool life
- Solid carbide
- Precision manufactured in the USA



	Diameter	Length of Cut	Shank Diameter	Overall Length	DLC Coated		CVD Coated	
	D_1	L_2	D_2	L_1	Tool #	Reference	Tool #	Reference
NEW!	.125	.500	.125	2.000	C62250	125CFRU2F	C28064	125CFRUCVD2F
NEW!	.188	.875	.188	2.500	C91130	1875CFRU2F	C28469	1875CFRUCVD2F
NEW!	.250	.750	.250	2.500	C75739	25CFRU2F	C30903	25CFRUCVD2F
NEW!	.375	1.000	.375	3.000	C18480	375CFRU2FL3.0	C61622	375CFRUCVD2FL3.0
NEW!	.375	1.000	.375	4.000			C75207	375CFRUCVD2FL4.0
NEW!	.500	1.500	.500	3.000	C26546	5CFRU2F	C58718	5CFRUCVD2F

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CFRP Router Bits
Drill Point Style - Upcut

NEW

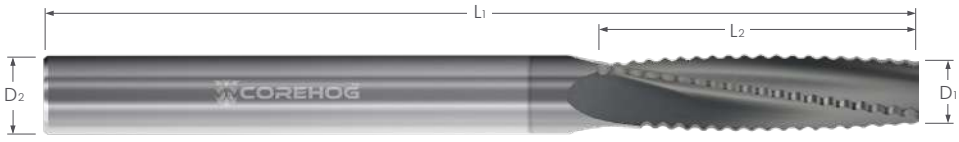
- Free cutting geometry minimizes delamination and provides excellent part finish
- Optimized for trimming CFRP and provides excellent performance in Fiberglass and S Glass
- Geometry allows for plunging or drilling entry
- Center cutting
- DLC coating for optimal performance
- True crystalline CVD diamond coating for extended tool life
- Solid carbide
- Precision manufactured in the USA

Diameter	Length of Cut	Shank Diameter	Overall Length	DLC Coated		CVD Coated		
D_1	L_2	D_2	L_1	Tool #	Reference	Tool #	Reference	
.125	.500	.125	2.000	C97821	125CFRUDP	C41492	125CFRUCVDDP	NEW!
.188	.875	.188	2.500	C61895	1875CFRUDP	C68364	1875CFRUCVDDP	NEW!
.250	.750	.250	2.500	C52495	25CFRUDP	C61695	25CFRUCVDDP	
.375	1.000	.375	3.000	C23154	375CFRUDPL3.0	C35013	375CFRUCVDDPL3.0	NEW!
.375	1.000	.375	4.000			C69764	375CFRUCVDDPL4.0	NEW!
.500	1.500	.500	3.000	C90390	5CFRUDP	C87478	5CFRUCVDDP	

NEW

CFRP Router Bits
Roughers - Upcut

- Unique geometry for increased MRR and reduced cutting forces in roughing applications
- Provides excellent performance when semi-finishing G10 Glass, fiberglass, glass, and fiber filled plastic
- True crystalline CVD diamond coating for extended tool life
- Center cutting
- Solid carbide
- Precision manufactured in the USA

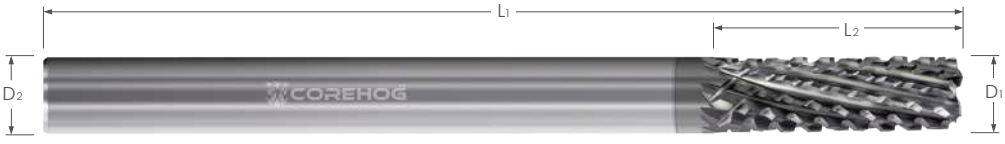


	Diameter	Length of Cut	Shank Diameter	Overall Length	CVD Coated	
	D_1	L_2	D_2	L_1	Tool #	Reference
NEW!	.250	1.000	.250	3.000	C90209	25CFHFM1.00L3.00C8CB
NEW!	.375	1.250	.375	3.000	C30440	375CFHFM1.25L3.00C8CB
NEW!	.375	2.000	.375	4.000	C45627	375CFHFM2.00L4.00C8CB
NEW!	.500	1.500	.500	4.000	C33933	5CFHFM1.50L4.00C8CB

CFRP MAX Router Bits
Burr Style - Upcut

NEW

- Designed to provide high feed rates while maintaining excellent finish
- Free cutting geometry minimizes delamination
- Optimized for trimming CFRP and provides excellent performance in Fiberglass and S Glass
- Burr style end allows for ramping, not suited for plunge cutting
- True crystalline CVD diamond coating for extended tool life
- Solid carbide
- Precision manufactured in the USA



Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1	CVD Coated Tool #	CVD Coated Reference	
.1875	.875	.188	2.500	C16639	1875CFRUMAX	NEW!
.2500	.750	.250	3.000	C59526	25CFRUMAX	NEW!
.2500	1.000	.250	3.000	C36367	25CFRU1.00MAX	NEW!
.3750	1.250	.375	3.000	C86072	375CFRUMAX	NEW!
.5000	1.500	.500	3.000	C60516	5CFRUMAX	NEW!
.5000	1.500	.500	4.000	C81281	5CFRUMAXL4.00C8	NEW!

NEW

CFRP MAX Router Bits
End Mill Style - Upcut

- Designed to provide high feed rates while maintaining excellent finish
- Free cutting geometry minimizes delamination
- Optimized for trimming CFRP and provides excellent performance in Fiberglass and S Glass
- Geometry allows for ramping and plunging
- Center cutting
- True crystalline CVD diamond coating for extended tool life
- Solid carbide
- Precision manufactured in the USA

	Diameter	Length of Cut	Shank Diameter	Overall Length	CVD Coated	
	D_1	L_2	D_2	L_1	Tool #	Reference
NEW!	.1875	.875	.188	2.500	C69823	1875CFRUMAX2F
NEW!	.2500	.750	.250	3.000	C91247	25CFRUMAX2F
NEW!	.2500	1.000	.250	3.000	C49457	25CFRU1.00MAX2F
NEW!	.3750	1.250	.375	3.000	C14978	375CFRUMAX2F
NEW!	.5000	1.500	.500	3.000	C37776	5CFRUMAX2F
NEW!	.5000	1.500	.500	4.000	C39307	5CFRUMAX2FL4.00C8

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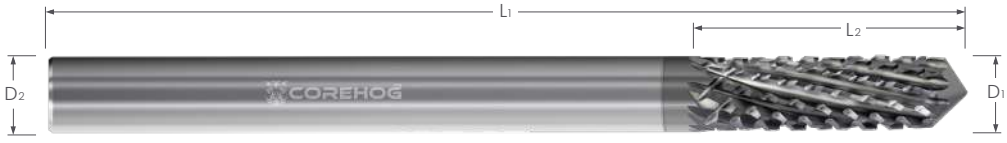
CFRP MAX Router Bits
Drill Point Style - Upcut

NEW

- Geometry allows for plunging or drilling entry
- Designed to provide high feed rates while maintaining excellent finish
- Free cutting geometry minimizes delamination
- Optimized for trimming CFRP and provides excellent performance in Fiberglass and S Glass
- Center cutting
- True crystalline CVD diamond coating for extended tool life
- Solid carbide
- Precision manufactured in the USA

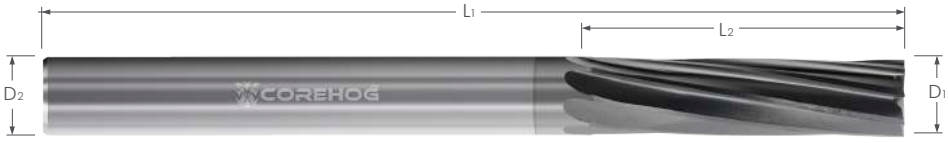


Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1	CVD Coated Tool #	CVD Coated Reference	
.1875	.875	.188	2.500	C11591	1875CFRUMAXDP	NEW!
.2500	.750	.250	3.000	C76993	25CFRUMAXDP	NEW!
.2500	1.000	.250	3.000	C60093	25CFRU1.00MAXDP	NEW!
.3750	1.250	.375	3.000	C18724	375CFRUMAXDP	NEW!
.5000	1.500	.500	3.000	C18336	5CFRUMAXDP	NEW!
.5000	1.500	.500	4.000	C83530	5CFRUMAXDPL4.00C8	NEW!

NEW

CFRP High Feed Mills
Upcut

- Shearing action provides a fuzz-free finish with minimal delamination
- Smooth flute design for excellent finish on walls
- Provides excellent performance when finishing G10 glass, fiberglass, glass, and fiber filled plastic
- DLC coating for optimal performance
- True Crystalline CVD diamond coating for extended tool life
- Solid carbide
- Center cutting
- Precision manufactured in the USA



	Diameter	Length of Cut	Shank Diameter	Overall Length	DLC Coated		CVD Coated	
	D_1	L_2	D_2	L_1	Tool #	Reference	Tool #	Reference
	.250	1.000	.250	2.500	**C23730**	25CFHFM	**C73272**	25CFHFMCVD
NEW!	.375	1.125	.375	3.000	**C68988**	375CFHFML3.0	**C84996**	375CFHFMCVDL3.0
	.500	1.250	.500	3.000	**C70633**	5CFHFM	**C24389**	5CFHFMCVD
NEW!	.500	1.500	.500	4.000			**C67224**	5CFHFM1.50L4.00C8

PCD Diamond End Mills
Square

NEW

- Freer cutting for minimized delamination and cleaner part finish
- Provides excellent performance in tough materials like G10 glass and carbon fiber
- PCD diamond brazed on solid carbide body for significant improvement in tool life
- Center cutting
- Precision manufactured in Italy

Diameter	Length of Cut	Shank Diameter	Overall Length	PCD Diamond		
D_1	L_2	D_2	L_1	Tool #	Reference	
.125	.250	.125	1.500	**C74984**	125PCD	
.188	.250	.188	2.000	**C79979**	1875PCD	NEW!
.250	.250	.250	2.500	**C79748**	25PCD	
.375	.312	.375	2.500	**C82527**	375PCD	
.500	.312	.500	3.000	**C12470**	5PCD	
.750	.500	.750	4.000	**C31980**	75PCD	
1.000	.750	1.000	4.000	**C99963**	100PCD	NEW!

NEW

PCD Diamond End Mills
Ball Nose

- Freer cutting for minimized delamination and cleaner part finish
- Optimized for shaping hard and abrasive materials such as fiberglass, carbon fiber, and phenolic
- Provides excellent performance in finishing applications of complex surfaces and shapes in difficult to machine materials
- PCD diamond brazed on solid carbide body for significant improvement in tool life
- Precision manufactured in Italy

	Diameter	Length of Cut	Shank Diameter	Overall Length	PCD Diamond	
	D_1	L_2	D_2	L_1	Tool #	Reference
NEW!	.125	.250	.125	1.500	C66271	125PCDB
NEW!	.188	.312	.188	2.000	C64310	1875PCDB
	.250	.312	.250	2.500	C27976	25PCDB
	.375	.437	.375	2.500	C30325	375PCDB
	.500	.500	.500	3.000	C90424	5PCDB
	.750	.500	.750	4.000	C94917	75PCDB
NEW!	1.000	.750	1.000	4.000	C98151	100PCDB

Burr Tools
Burr Style

NEW

- Specially designed for routing fiber reinforced, epoxy resin, and composites
- Engineered with diamond-cut flute pattern to reduce delamination and provide smooth cutting action
- Standard cut profile
- DLC coating for optimal performance
- Solid carbide
- Precision manufactured in the USA

Diameter	Length of Cut	Shank Diameter	Overall Length	Uncoated		DLC Coated		
D1	L2	D2	L1	Tool #	Reference	Tool #	Reference	
.250	1.250	.250	3.000	C70016	2500FRBECC0	C36346	2500FRBECC7	NEW!
.250	1.750	.250	4.000	C28344	2500FRBECXLC0	C88891	2500FRBECXLC7	NEW!
.313	1.250	.313	3.000	C84729	3125FRBECC0	C21464	3125FRBECC7	NEW!
.375	1.250	.375	3.000	C67528	3750FRBECC0	C54430	3750FRBECC7	NEW!
.500	1.250	.500	3.000	C57182	5000FRBECC0	C63031	5000FRBECC7	NEW!

NEW

Burr Tools
End Mill Style

- Specially designed for routing fiber reinforced, epoxy resin, and composites
- Engineered with diamond-cut flute pattern to reduce delamination and provide smooth cutting action
- Center cutting
- DLC coating for optimal performance
- Solid carbide
- Precision manufactured in the USA

	Diameter	Length of Cut	Shank Diameter	Overall Length	Uncoated		DLC Coated	
	D1	L2	D2	L1	Tool #	Reference	Tool #	Reference
NEW!	.250	1.250	.250	3.000	C87510	2500FRB2FC0	C19396	2500FRB2FC7
NEW!	.250	1.750	.250	4.000	C72576	2500FRB2FXLC0	C75176	2500FRB2FXLC7
NEW!	.313	1.250	.313	3.000	C50116	3125FRB2FC0	C11470	3125FRB2FC7
NEW!	.375	1.250	.375	3.000	C90419	3750FRB2FC0	C89565	3750FRB2FC7
NEW!	.500	1.250	.500	3.000	C48175	5000FRB2FC0	C71414	5000FRB2FC7

In The Loupe : Machinist Blog
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Burr Tools
Drill Point Style

NEW

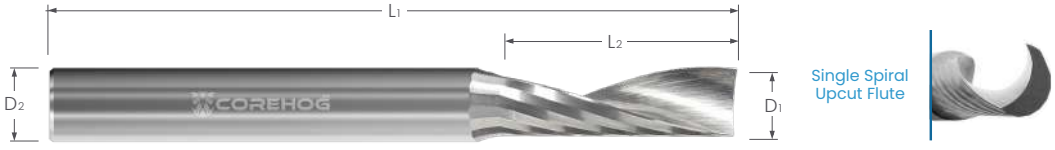
- Specially designed for routing fiber reinforced, epoxy resin, and composites
- Engineered with diamond-cut flute pattern to reduce delamination and provide smooth cutting action
- 135° drill point
- DLC coating for optimal performance
- Solid carbide
- Precision manufactured in the USA

Diameter	Length of Cut	Shank Diameter	Overall Length	Uncoated		DLC Coated		
D1	L2	D2	L1	Tool #	Reference	Tool #	Reference	
.250	1.250	.250	3.000	C17331	2500FRBDPC0	C39339	2500FRBDPC7	NEW!
.250	1.750	.250	4.000	C80150	2500FRBDPXLC0	C72397	2500FRBDPXLC7	NEW!
.313	1.250	.313	3.000	C85678	3125FRBDPC0	C63083	3125FRBDPC7	NEW!
.375	1.250	.375	3.000	C36362	3750FRBDPC0	C30807	3750FRBDPC7	NEW!
.500	1.250	.500	3.000	C74177	5000FRBDPC0	C69523	5000FRBDPC7	NEW!

NEW

Plastic Cutters - Single Flute
Square - Upcut

- Designed for maximum stock removal while maintaining excellent finish
- Engineered with high rake and high relief for improved shearing action while transferring heat into the chip
- Large flute valley for maximum chip evacuation
- Polished flute face
- Right hand spiral, right hand cut
- Solid carbide
- Precision manufactured in the USA



	Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1	Uncoated Tool #
NEW!	.125	.500	.250*	2.000	C36039
NEW!	.187	.625	.250*	2.000	C91695
NEW!	.250	.750	.250	2.500	C35749
NEW!	.375	1.125	.375	2.500	C66407
NEW!	.500	1.500	.500	3.000	C16321

*Tools are ground on oversized, router-style shank.

NEW

Plastic Cutters - Single Flute
Square - Downcut

- Designed to prevent fraying and chipout of top edge of work piece
- Engineered with high rake and high relief for improved shearing action while transferring heat into the chip
- Designed to resist chip welding
- Polished flute face
- Left hand spiral, right hand cut
- Solid carbide
- Precision manufactured in the USA

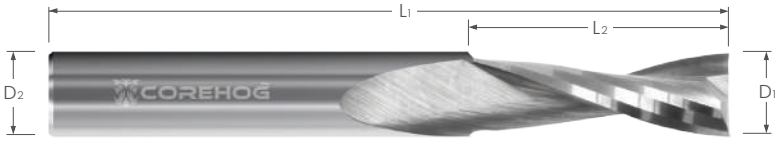
	Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1	Uncoated Tool #
NEW!	.125	.500	.250*	2.000	C96764
NEW!	.187	.625	.250*	2.000	C23057
NEW!	.250	.750	.250	2.500	C33929

*Tools are ground on oversized, router-style shank.

Plastic Cutters - 2 Flute
Square - Upcut

NEW

- Engineered with high rake, high relief, and large flute valley for maximum chip removal
- 2 flute design for improved rigidity, less deflection, and maximum tool life
- Center cutting
- Polished flute face
- Solid carbide
- Precision manufactured in the USA

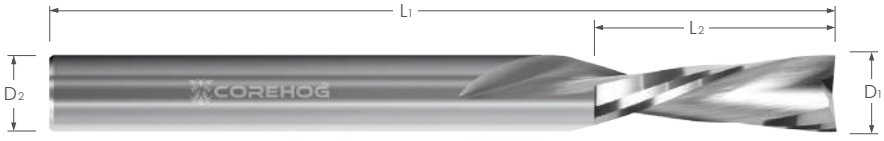


Diameter	Length of Cut	Shank Diameter	Overall Length	Uncoated	
D_1	L_2	D_2	L_1	Tool #	
.062	.187	.125	1.500	C34914	NEW!
.093	.281	.125	1.500	C81709	NEW!
.125	.375	.125	1.500	C82174	NEW!
.187	.562	.187	2.000	C60498	NEW!
.250	.750	.250	2.500	C76571	NEW!
.375	1.125	.375	3.000	C20380	NEW!
.500	1.500	.500	4.000	C34254	NEW!

NEW

Plastic Cutters - 2 Flute
Square - Downcut

- Designed to prevent fraying and chipout of top edge of work piece
- Engineered with high rake, high relief, and large flute valley for maximum chip removal
- 2 flute design for improved rigidity, less deflection, and maximum tool life
- Polished flute face
- Left hand spiral, right hand cut
- Solid carbide
- Precision manufactured in the USA

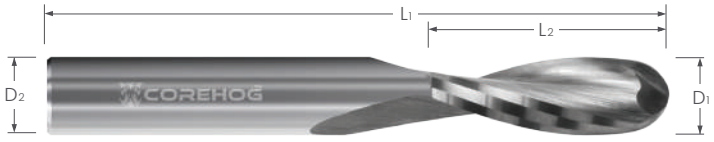


	Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1	Uncoated Tool #
NEW!	.062	.187	.125	1.500	C68945
NEW!	.093	.281	.125	1.500	C12339
NEW!	.125	.375	.125	1.500	C20225
NEW!	.187	.562	.187	2.000	C52478
NEW!	.250	.750	.250	2.500	C71092
NEW!	.375	1.125	.375	3.000	C90317
NEW!	.500	1.500	.500	4.000	C31660

Plastic Cutters - 2 Flute
Ball - Upcut

NEW

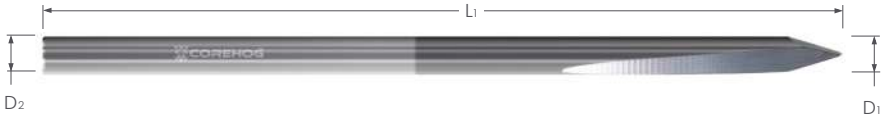
- Ball end design engineered for profiling complex shapes
- Engineered with increased rake and relief for improved cutting action at tip of ball
- Polished flute face
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Uncoated	
D_1	L_2	D_2	L_1	Tool #	
.062	.187	.125	1.500	C75231	NEW!
.093	.281	.125	1.500	C25103	NEW!
.125	.375	.125	1.500	C13644	NEW!
.187	.562	.187	2.000	C82706	NEW!
.250	.750	.250	2.500	C19663	NEW!
.375	1.125	.375	3.000	C58070	NEW!
.500	1.500	.500	4.000	C50149	NEW!

Dagger Drills

- An ideal choice for hand drilling composites in assembly applications
- Suitable for use in a wide range of composites and plastics
- Can also be used in CNC operations for added versatility
- Cutting geometry designed to reduce delamination on exit
- DLC coating for optimal performance
- Solid carbide
- Precision manufactured in the USA



Size	Diameter	Shank Diameter	Overall Length	DLC Coated	
	D_1	D_2	L_1	Tool #	Reference
#40	.0980	.0980	4.000	**C54513**	DGRDR0980-4
#40	.0980	.0980	6.000	**C86727**	DGRDR0980-6
1/8	.1250	.1250	4.000	**C48573**	DGRDR1250-4
1/8	.1250	.1250	6.000	**C53673**	DGRDR1250-6
#30	.1285	.1285	4.000	**C33689**	DGRDR1285-4
#30	.1285	.1285	6.000	**C58943**	DGRDR1285-6
9/64	.1406	.1406	4.000	**C74783**	DGRDR1406-4
9/64	.1406	.1406	6.000	**C55142**	DGRDR1406-6
5/32	.1563	.1563	4.000	**C60040**	DGRDR1563-4
5/32	.1563	.1563	6.000	**C35069**	DGRDR1563-6
#21	.1590	.1590	4.000	**C24478**	DGRDR1590-4
#21	.1590	.1590	6.000	**C19253**	DGRDR1590-6
#20	.1610	.1610	4.000	**C79990**	DGRDR1610-4
#20	.1610	.1610	6.000	**C39287**	DGRDR1610-6
11/64	.1719	.1719	4.000	**C22739**	DGRDR1719-4
11/64	.1719	.1719	6.000	**C74357**	DGRDR1719-6
3/16	.1875	.1875	4.000	**C80957**	DGRDR1875-4
3/16	.1875	.1875	6.000	**C94739**	DGRDR1875-6
#11	.1910	.1910	4.000	**C81447**	DGRDR1910-4
#11	.1910	.1910	6.000	**C85505**	DGRDR1910-6
#10	.1935	.1935	4.000	**C26167**	DGRDR1935-4
#10	.1935	.1935	6.000	**C44812**	DGRDR1935-6
#8	.1990	.1990	4.000	**C58352**	DGRDR1990-4
#8	.1990	.1990	6.000	**C15288**	DGRDR1990-6

Continued On Next Page

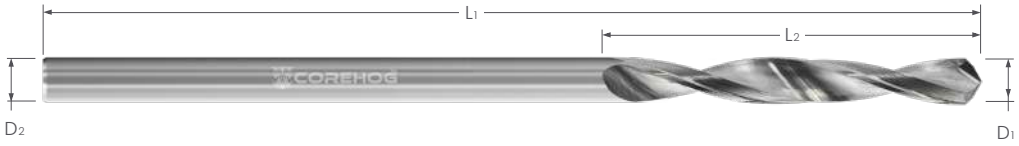
Dagger Drills (cont.)

Continued From Previous Page

Size	Diameter D_1	Shank Diameter D_2	Overall Length L_1	DLC Coated	
				Tool #	Reference
#7	.2010	.2010	4.000	**C92113**	DGRDR2010-4
#7	.2010	.2010	6.000	**C93241**	DGRDR2010-6
13/64	.2031	.2031	4.000	**C66627**	DGRDR2031-4
13/64	.2031	.2031	6.000	**C84617**	DGRDR2031-6
7/32	.2188	.2188	4.000	**C97767**	DGRDR2188-4
7/32	.2188	.2188	6.000	**C82266**	DGRDR2188-6
#1	.2280	.2280	4.000	**C19980**	DGRDR2280-4
#1	.2280	.2280	6.000	**C95914**	DGRDR2280-6
A	.2340	.2340	4.000	**C72944**	DGRDR2340-4
A	.2340	.2340	6.000	**C93784**	DGRDR2340-6
B	.2380	.2380	4.000	**C10495**	DGRDR2380-4
B	.2380	.2380	6.000	**C53020**	DGRDR2380-6
1/4	.2500	.2500	4.000	**C87771**	DGRDR2500-4
1/4	.2500	.2500	6.000	**C44308**	DGRDR2500-6

8 Facet Drills

- 8 Facet design efficiently spreads out tool pressure throughout the cut, eliminating delamination on exit
- Optimized to maximize MRR
- Suitable for use in a wide range of composites and plastics
- For use in both hand and CNC operations
- Solid carbide
- Precision manufactured in the USA



▶ Available in CVD or DLC coatings upon request

Size	Diameter	Length of Flute	Shank Diameter	Overall Length	Uncoated	
	D_1	L_2	D_2	L_1	Tool #	Reference
#40	.0980	1.500	.0980	4.000	**C14893**	8FDR0980C0-4
#40	.0980	1.500	.0980	6.000	**C96799**	8FDR0980C0-6
1/8	.1250	1.500	.1250	4.000	**C97275**	8FDR1250C0-4
1/8	.1250	1.500	.1250	6.000	**C58920**	8FDR1250C0-6
#30	.1285	1.500	.1285	4.000	**C17912**	8FDR1285C0-4
#30	.1285	1.500	.1285	6.000	**C51710**	8FDR1285C0-6
9/64	.1406	1.500	.1406	4.000	**C54951**	8FDR1406C0-4
9/64	.1406	1.500	.1406	6.000	**C64074**	8FDR1406C0-6
5/32	.1563	1.500	.1563	4.000	**C47378**	8FDR1563C0-4
5/32	.1563	1.500	.1563	6.000	**C30144**	8FDR1563C0-6
#21	.1590	1.500	.1590	4.000	**C54592**	8FDR1590C0-4
#21	.1590	1.500	.1590	6.000	**C84101**	8FDR1590C0-6
#20	.1610	1.500	.1610	4.000	**C48046**	8FDR1610C0-4
#20	.1610	1.500	.1610	6.000	**C53804**	8FDR1610C0-6
11/64	.1719	1.500	.1719	4.000	**C82255**	8FDR1719C0-4
11/64	.1719	1.500	.1719	6.000	**C13482**	8FDR1719C0-6
3/16	.1875	1.500	.1875	4.000	**C41314**	8FDR1875C0-4
3/16	.1875	1.500	.1875	6.000	**C80427**	8FDR1875C0-6
#11	.1910	1.500	.1910	4.000	**C90406**	8FDR1910C0-4
#11	.1910	1.500	.1910	6.000	**C38899**	8FDR1910C0-6
#10	.1935	1.500	.1935	4.000	**C63605**	8FDR1935C0-4
#10	.1935	1.500	.1935	6.000	**C14935**	8FDR1935C0-6
#8	.1990	1.500	.1990	4.000	**C88736**	8FDR1990C0-4
#8	.1990	1.500	.1990	6.000	**C37663**	8FDR1990C0-6

Continued On Next Page

see page 51 for 8 Facet Drills - PCD

8 Facet Drills (cont.)

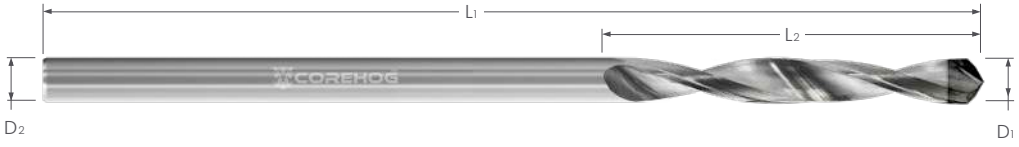
Continued From Previous Page

Size	Diameter D_1	Length of Flute L_2	Shank Diameter D_2	Overall Length L_1	Uncoated	
					Tool #	Reference
#7	.2010	1.500	.2010	4.000	**C16115**	8FDR2010C0-4
#7	.2010	1.500	.2010	6.000	**C23344**	8FDR2010C0-6
13/64	.2031	1.500	.2031	4.000	**C90415**	8FDR2031C0-4
13/64	.2031	1.500	.2031	6.000	**C55016**	8FDR2031C0-6
7/32	.2188	1.500	.2188	4.000	**C33317**	8FDR2188C0-4
7/32	.2188	1.500	.2188	6.000	**C59892**	8FDR2188C0-6
#1	.2280	1.500	.2280	4.000	**C90403**	8FDR2280C0-4
#1	.2280	1.500	.2280	6.000	**C14929**	8FDR2280C0-6
A	.2340	1.500	.2340	4.000	**C99526**	8FDR2340C0-4
A	.2340	1.500	.2340	6.000	**C94961**	8FDR2340C0-6
B	.2380	1.500	.2380	4.000	**C48696**	8FDR2380C0-4
B	.2380	1.500	.2380	6.000	**C98607**	8FDR2380C0-6
1/4	.2500	1.500	.2500	4.000	**C78583**	8FDR2500C0-4
1/4	.2500	1.500	.2500	6.000	**C50597**	8FDR2500C0-6

see page 51 for 8 Facet Drills - PCD

8 Facet Drills - PCD

- 8 Facet design efficiently spreads out tool pressure throughout the cut, eliminating delamination on exit
- Suitable for use in a wide range of composites and plastics
- Optimized to maximize MRR
- Superior tool life
- PCD diamond brazed on solid carbide body for significant improvement in tool life
- Precision manufactured in Italy



Size	Diameter	Length of Flute	Shank Diameter	Overall Length	PCD Diamond	
	D_1	L_2	D_2	L_1	Tool #	Reference
#40	.0980	1.500	.0980	4.000	**C90396**	8FDRPCD0980-4
#40	.0980	1.500	.0980	6.000	**C38258**	8FDRPCD0980-6
1/8	.1250	1.500	.1250	4.000	**C49330**	8FDRPCD1250-4
1/8	.1250	1.500	.1250	6.000	**C38653**	8FDRPCD1250-6
#30	.1285	1.500	.1285	4.000	**C85685**	8FDRPCD1285-4
#30	.1285	1.500	.1285	6.000	**C25332**	8FDRPCD1285-6
9/64	.1406	1.500	.1406	4.000	**C15800**	8FDRPCD1406-4
9/64	.1406	1.500	.1406	6.000	**C76164**	8FDRPCD1406-6
5/32	.1563	1.500	.1563	4.000	**C19906**	8FDRPCD1563-4
5/32	.1563	1.500	.1563	6.000	**C50071**	8FDRPCD1563-6
#21	.1590	1.500	.1590	4.000	**C99483**	8FDRPCD1590-4
#21	.1590	1.500	.1590	6.000	**C38093**	8FDRPCD1590-6
#20	.1610	1.500	.1610	4.000	**C78394**	8FDRPCD1610-4
#20	.1610	1.500	.1610	6.000	**C76345**	8FDRPCD1610-6
11/64	.1719	1.500	.1719	4.000	**C59109**	8FDRPCD1719-4
11/64	.1719	1.500	.1719	6.000	**C71236**	8FDRPCD1719-6
3/16	.1875	1.500	.1875	4.000	**C42430**	8FDRPCD1875-4
3/16	.1875	1.500	.1875	6.000	**C42410**	8FDRPCD1875-6
#11	.1910	1.500	.1910	4.000	**C17060**	8FDRPCD1910-4
#11	.1910	1.500	.1910	6.000	**C82350**	8FDRPCD1910-6
#10	.1935	1.500	.1935	4.000	**C98671**	8FDRPCD1935-4
#10	.1935	1.500	.1935	6.000	**C25422**	8FDRPCD1935-6
#8	.1990	1.500	.1990	4.000	**C57410**	8FDRPCD1990-4
#8	.1990	1.500	.1990	6.000	**C84739**	8FDRPCD1990-6

Continued On Next Page

see page 49 for uncoated 8 Facet Drills

8 Facet Drills - PCD (cont.)

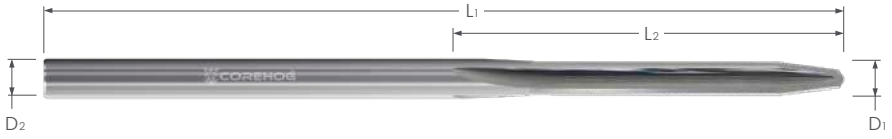
Continued From Previous Page

Size	Diameter D_1	Length of Flute L_2	Shank Diameter D_2	Overall Length L_1	PCD Diamond	
					Tool #	Reference
#7	.2010	1.500	.2010	4.000	**C29982**	8FDRPCD2010-4
#7	.2010	1.500	.2010	6.000	**C54216**	8FDRPCD2010-6
13/64	.2031	1.500	.2031	4.000	**C34314**	8FDRPCD2031-4
13/64	.2031	1.500	.2031	6.000	**C18210**	8FDRPCD2031-6
7/32	.2188	1.500	.2188	4.000	**C85129**	8FDRPCD2188-4
7/32	.2188	1.500	.2188	6.000	**C72004**	8FDRPCD2188-6
#1	.2280	1.500	.2280	4.000	**C72387**	8FDRPCD2280-4
#1	.2280	1.500	.2280	6.000	**C70412**	8FDRPCD2280-6
A	.2340	1.500	.2340	4.000	**C80253**	8FDRPCD2340-4
A	.2340	1.500	.2340	6.000	**C43657**	8FDRPCD2340-6
B	.2380	1.500	.2380	4.000	**C98957**	8FDRPCD2380-4
B	.2380	1.500	.2380	6.000	**C51757**	8FDRPCD2380-6
1/4	.2500	1.500	.2500	4.000	**C68709**	8FDRPCD2500-4
1/4	.2500	1.500	.2500	6.000	**C84791**	8FDRPCD2500-6

see page 49 for uncoated 8 Facet Drills

Tapered Drill Reamers

- Multi-purpose tooling can be used to drill and ream in one operation
- Suitable for use in a wide range of composites and plastics
- Engineered to produce tight toleranced holes in composite laminates (.0005" to .0010")
- Solid carbide
- 4 flute design and special "long nose" geometry spread the cut out, eliminating delamination by avoiding grabbing or pushing on plies
- For use in both hand and CNC operations
- Precision manufactured in the USA



▶ Available in CVD or DLC coatings upon request

Size	Diameter	Length of Flute	Shank Diameter	Overall Length	Uncoated	
	D_1	L_2	D_2	L_1	Tool #	Reference
#40	.0980	1.500	.0980	4.000	**C27354**	TPRMR0980C0-4
#40	.0980	1.500	.0980	6.000	**C31427**	TPRMR0980C0-6
1/8	.1250	1.500	.1250	4.000	**C20256**	TPRMR1250C0-4
1/8	.1250	1.500	.1250	6.000	**C43574**	TPRMR1250C0-6
#30	.1285	1.500	.1285	4.000	**C41022**	TPRMR1285C0-4
#30	.1285	1.500	.1285	6.000	**C15769**	TPRMR1285C0-6
9/64	.1406	1.500	.1406	4.000	**C32825**	TPRMR1406C0-4
9/64	.1406	1.500	.1406	6.000	**C22379**	TPRMR1406C0-6
5/32	.1563	1.500	.1563	4.000	**C57905**	TPRMR1563C0-4
5/32	.1563	1.500	.1563	6.000	**C80152**	TPRMR1563C0-6
#21	.1590	1.500	.1590	4.000	**C10752**	TPRMR1590C0-4
#21	.1590	1.500	.1590	6.000	**C69671**	TPRMR1590C0-6
#20	.1610	1.500	.1610	4.000	**C33113**	TPRMR1610C0-4
#20	.1610	1.500	.1610	6.000	**C37935**	TPRMR1610C0-6
11/64	.1719	1.500	.1719	4.000	**C35875**	TPRMR1719C0-4
11/64	.1719	1.500	.1719	6.000	**C31369**	TPRMR1719C0-6
3/16	.1875	1.500	.1875	4.000	**C97097**	TPRMR1875C0-4
3/16	.1875	1.500	.1875	6.000	**C84609**	TPRMR1875C0-6
#11	.1910	1.500	.1910	4.000	**C42964**	TPRMR1910C0-4
#11	.1910	1.500	.1910	6.000	**C28656**	TPRMR1910C0-6
#10	.1935	1.500	.1935	4.000	**C31983**	TPRMR1935C0-4
#10	.1935	1.500	.1935	6.000	**C41707**	TPRMR1935C0-6
#8	.1990	1.500	.1990	4.000	**C80447**	TPRMR1990C0-4
#8	.1990	1.500	.1990	6.000	**C41628**	TPRMR1990C0-6

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Tapered Drill Reamers (cont.)

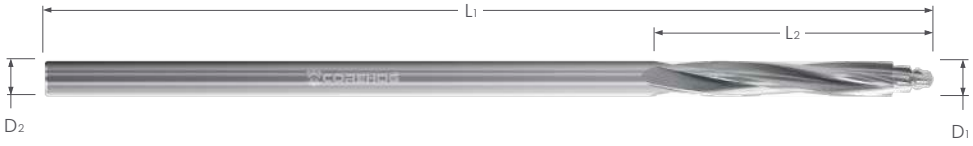
Continued From Previous Page

Size	Diameter D_1	Length of Flute L_2	Shank Diameter D_2	Overall Length L_1	Uncoated	
					Tool #	Reference
#7	.2010	1.500	.2010	4.000	**C97319**	TPRMR2010C0-4
#7	.2010	1.500	.2010	6.000	**C23092**	TPRMR2010C0-6
13/64	.2031	1.500	.2031	4.000	**C82804**	TPRMR2031C0-4
13/64	.2031	1.500	.2031	6.000	**C46915**	TPRMR2031C0-6
7/32	.2188	1.500	.2188	4.000	**C54150**	TPRMR2188C0-4
7/32	.2188	1.500	.2188	6.000	**C21539**	TPRMR2188C0-6
#1	.2280	1.500	.2280	4.000	**C17043**	TPRMR2280C0-4
#1	.2280	1.500	.2280	6.000	**C66989**	TPRMR2280C0-6
A	.2340	1.500	.2340	4.000	**C68577**	TPRMR2340C0-4
A	.2340	1.500	.2340	6.000	**C69742**	TPRMR2340C0-6
B	.2380	1.500	.2380	4.000	**C54695**	TPRMR2380C0-4
B	.2380	1.500	.2380	6.000	**C31256**	TPRMR2380C0-6
1/4	.2500	1.500	.2500	4.000	**C43238**	TPRMR2500C0-4
1/4	.2500	1.500	.2500	6.000	**C52627**	TPRMR2500C0-6

In The Loupe : Machinist Blog
read online at www.harveyperformance.com/in-the-loupe

Helical Step Drills

- Proprietary multi-stepped nose design spreads out load, eliminating delamination and/or burr on exit
- Designed to produce tight toleranced holes with minimal tool pressure
- Suitable for use in a wide range of composites and plastics
- Engineered to improve hole finish
- For use in both hand and CNC operations
- Solid carbide
- Precision manufactured in the USA



▶ Available in CVD or DLC coatings upon request

Size	Diameter	Length of Flute	Shank Diameter	Overall Length	Uncoated	
	D_1	L_2	D_2	L_1	Tool #	Reference
#40	.0980	1.500	.0980	4.000	**C85367**	STDRMR0980C0-4
#40	.0980	1.500	.0980	6.000	**C77209**	STDRMR0980C0-6
1/8	.1250	1.500	.1250	4.000	**C87870**	STDRMR1250C0-4
1/8	.1250	1.500	.1250	6.000	**C40706**	STDRMR1250C0-6
#30	.1285	1.500	.1285	4.000	**C59188**	STDRMR1285C0-4
#30	.1285	1.500	.1285	6.000	**C50598**	STDRMR1285C0-6
9/64	.1406	1.500	.1406	4.000	**C88163**	STDRMR1406C0-4
9/64	.1406	1.500	.1406	6.000	**C56849**	STDRMR1406C0-6
5/32	.1563	1.500	.1563	4.000	**C13592**	STDRMR1563C0-4
5/32	.1563	1.500	.1563	6.000	**C49695**	STDRMR1563C0-6
#21	.1590	1.500	.1590	4.000	**C95375**	STDRMR1590C0-4
#21	.1590	1.500	.1590	6.000	**C88311**	STDRMR1590C0-6
#20	.1610	1.500	.1610	4.000	**C58644**	STDRMR1610C0-4
#20	.1610	1.500	.1610	6.000	**C55115**	STDRMR1610C0-6
11/64	.1719	1.500	.1719	4.000	**C14086**	STDRMR1719C0-4
11/64	.1719	1.500	.1719	6.000	**C76710**	STDRMR1719C0-6
3/16	.1875	1.500	.1875	4.000	**C35105**	STDRMR1875C0-4
3/16	.1875	1.500	.1875	6.000	**C73884**	STDRMR1875C0-6
#11	.1910	1.500	.1910	4.000	**C11419**	STDRMR1910C0-4
#11	.1910	1.500	.1910	6.000	**C46027**	STDRMR1910C0-6
#10	.1935	1.500	.1935	4.000	**C63230**	STDRMR1935C0-4
#10	.1935	1.500	.1935	6.000	**C37453**	STDRMR1935C0-6
#8	.1990	1.500	.1990	4.000	**C58002**	STDRMR1990C0-4
#8	.1990	1.500	.1990	6.000	**C32738**	STDRMR1990C0-6

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Helical Step Drills (cont.)

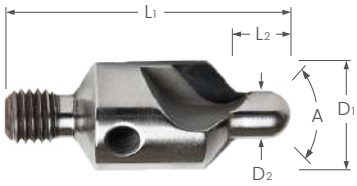
Continued From Previous Page

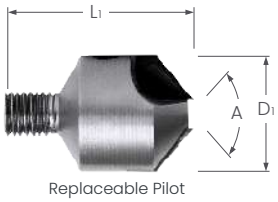
Size	Diameter D_1	Length of Flute L_2	Shank Diameter D_2	Overall Length L_1	Uncoated	
					Tool #	Reference
#7	.2010	1.500	.2010	4.000	**C58438**	STDRMR2010C0-4
#7	.2010	1.500	.2010	6.000	**C47246**	STDRMR2010C0-6
13/64	.2031	1.500	.2031	4.000	**C87145**	STDRMR2031C0-4
13/64	.2031	1.500	.2031	6.000	**C60809**	STDRMR2031C0-6
7/32	.2188	1.500	.2188	4.000	**C69648**	STDRMR2188C0-4
7/32	.2188	1.500	.2188	6.000	**C17496**	STDRMR2188C0-6
#1	.2280	1.500	.2280	4.000	**C54043**	STDRMR2280C0-4
#1	.2280	1.500	.2280	6.000	**C90546**	STDRMR2280C0-6
A	.2340	1.500	.2340	4.000	**C91646**	STDRMR2340C0-4
A	.2340	1.500	.2340	6.000	**C88811**	STDRMR2340C0-6
B	.2380	1.500	.2380	4.000	**C11985**	STDRMR2380C0-4
B	.2380	1.500	.2380	6.000	**C54115**	STDRMR2380C0-6
1/4	.2500	1.500	.2500	4.000	**C72507**	STDRMR2500C0-4
1/4	.2500	1.500	.2500	6.000	**C45128**	STDRMR2500C0-6

NEW

Countersinks
PCD Diamond

- Provides excellent performance in abrasive materials like CFRP, fiberglass, and Kevlar®
- Achieve up to 50x the tool life over high speed steel or carbide tools
- Superior tool life
- For use in both hand and CNC operations
- PCD diamond brazed on solid carbide body for significant improvement in tool life
- Precision manufactured in Italy





Replaceable Pilot

	Included Angle A	Diameter D1	Pilot Diameter D2	Pilot Length L2	Shank Thread	Flutes	Hole Diameter	Overall Length L1	PCD Diamond Tool #	PCD Diamond Reference
NEW!	100°	.500	.188	.200	1/4-28	2	-	1.365	C28471	CSNK1002FD500P188
NEW!		.500	.188	.200	1/4-28	3	-	1.365	C73531	CSNK1003FD500P188
NEW!		.500	.199	.200	1/4-28	2	-	1.365	C14206	CSNK1002FD500P199
NEW!		.500	.199	.200	1/4-28	3	-	1.365	C74331	CSNK1003FD500P199
NEW!		.500	.248	.200	1/4-28	2	-	1.365	C61588	CSNK1002FD500P248
NEW!		.500	.248	.200	1/4-28	3	-	1.365	C60696	CSNK1003FD500P248
		.500	Replaceable	-	1/4-28	2	.094	1.365	C72733	CSNK1002FD500RP
		.500	Replaceable	-	1/4-28	3	.094	1.365	C15147	CSNK1003FD500RP
NEW!	130°	.500	.188	.200	1/4-28	2	-	1.365	C80597	CSNK1302FD500P188
NEW!		.500	.188	.200	1/4-28	3	-	1.365	C49699	CSNK1303FD500P188
NEW!		.500	.199	.200	1/4-28	2	-	1.365	C36217	CSNK1302FD500P199
NEW!		.500	.199	.200	1/4-28	3	-	1.365	C75796	CSNK1303FD500P199
NEW!		.500	.248	.200	1/4-28	2	-	1.365	C93938	CSNK1302FD500P248
NEW!		.500	.248	.200	1/4-28	3	-	1.365	C23165	CSNK1303FD500P248
		.500	Replaceable	-	1/4-28	2	.094	1.365	C18815	CSNK1302FD500RP
		.500	Replaceable	-	1/4-28	3	.094	1.365	C96616	CSNK1303FD500RP

Countersinks
Interchangeable Pilot

NEW

- Interchangeable pilot design ensures countersink is concentric around the hole
- Interchangeable design allows for added versatility
- Provides excellent performance in abrasive materials like CFRP, Fiberglass, and Kevlar®
- Specially designed for aircraft manufacturing with use of handheld pneumatic drill
- Steel
- Precision manufactured in the USA

Pilot Diameter D_1	Pilot Length	Shank Diameter D_2	Uncoated		
			Tool #	Reference	
.0980	.200	.094	C87756	CSNKPILOT0980	NEW!
.1250	.200	.094	C88104	CSNKPILOT1250	NEW!
.1285	.200	.094	C93928	CSNKPILOT1285	NEW!
.1590	.200	.094	C88548	CSNKPILOT1590	NEW!
.1610	.200	.094	C20350	CSNKPILOT1610	NEW!
.1850	.200	.094	C13702	CSNKPILOT1850	NEW!
.1875	.200	.094	C59242	CSNKPILOT1875	NEW!
.1890	.200	.094	C43980	CSNKPILOT1890	NEW!
.1935	.200	.094	C50171	CSNKPILOT1935	NEW!
.1990	.200	.094	C18803	CSNKPILOT1990	NEW!
.2460	.200	.094	C62451	CSNKPILOT2460	NEW!
.2500	.200	.094	C18074	CSNKPILOT2500	NEW!
.2610	.200	.094	C92035	CSNKPILOT2610	NEW!

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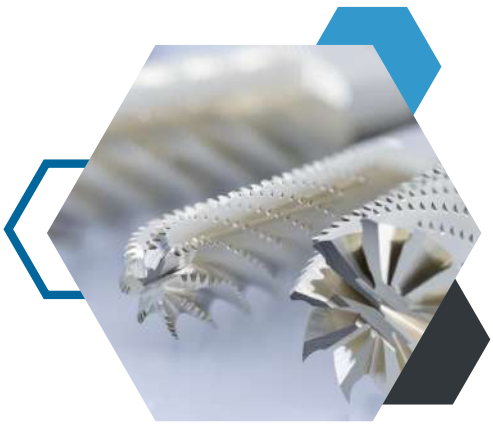

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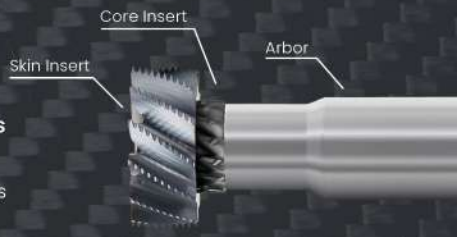
The CoreHog Advantage

- Cutting-Edge Geometries for Composites to Avoid Delamination & Tear Out
- Efficiency-Boosting Tools to Save Time and Money at the Spindle
- Expert Customer Service and Resources
- Same Day Shipping

Assembly Style Tools pg 6-7

Our Assembly Style Tools allow you to build the perfect tool for your next job. Choose the tool that best suits your application, tailored to your composite material's unique properties.



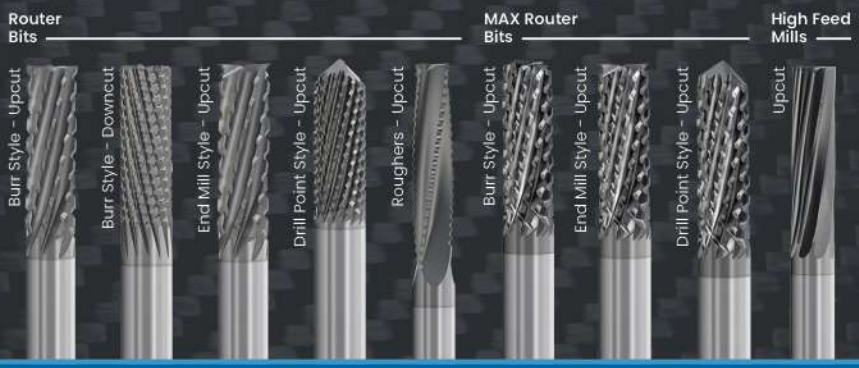
Assembly Style Options

Small Size Finishing Tools
Medium Size Finishing Tools
Large Size Finishing Tools
Valve Cutters
Modular Rebating Tools

Modular Rebating Tools - pg 27

CFRP Cutting Tools NEW!

When machining Carbon Fiber Reinforced Polymers (CFRP), opt for tooling that's engineered specifically to counteract its unique machining challenges. From Router Bits to MAX Router Bits, and even High Feed Mills, our new offering of CFRP Cutting Tools has you covered. See pages 29 - 37.



HARVEY PERFORMANCE COMPANY

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