



COREHOG[®]

Innovative Tools for Innovative Materials



NEW!

INTERACTIVE PDF

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2026 US Catalog



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 the Aerospace, Space Systems, Defense Systems, Auto Racing, and Naval Technologies Markets, among others.



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MILLING

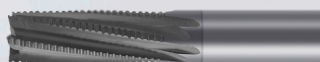
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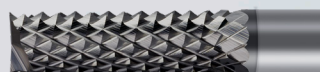
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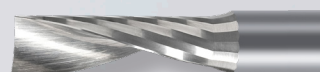
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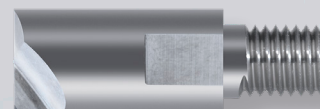
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Threaded Shank Tooling 87



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— Solid steel construction provides improved quality that delivers enhanced tool life

CFRP Routers
Rougher/Finisher
Downcut pg. 48



Rebating Cutters
for Aluminum
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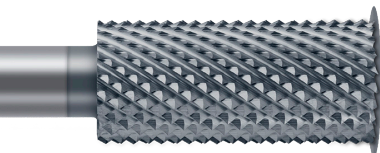


Specialty Applications Section

This new section provides tooling solutions for precise, specialized tasks. From Countersinks to Rivet Shavers and Nut Plate Drills, these tools are engineered to handle unique composite machining challenges.

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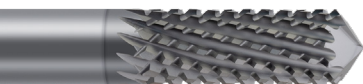
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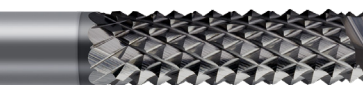
Finishing Core Tools
Medium Assembly



Rebating Cutters
Assembly



CFRP Routers



Diamond Cut Routers



Plastic Cutters
Single Flute

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DRILLING



CFRP Drills



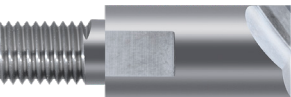
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SPECIALTY APPLICATIONS



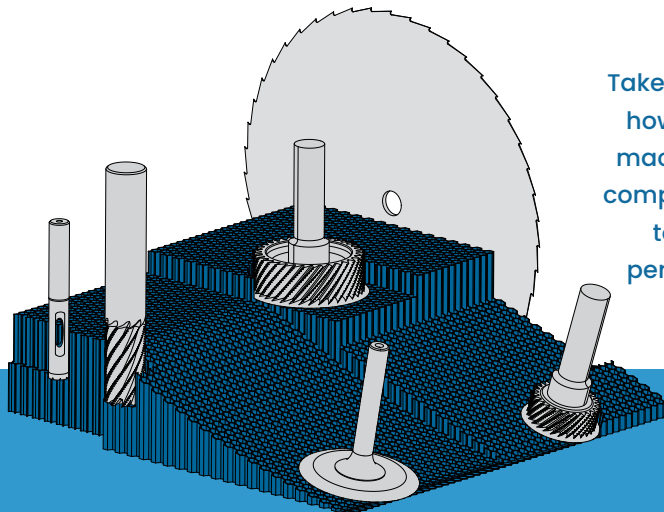
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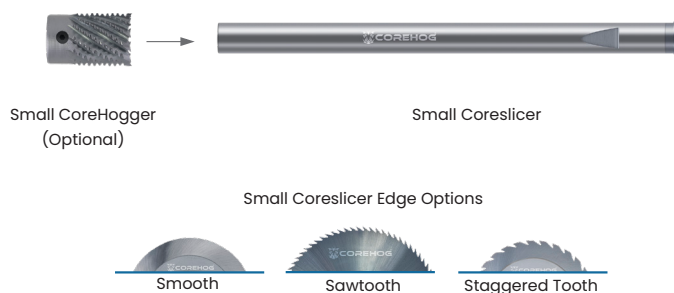
Take a closer look at how CoreHog tools machine a range of composite materials to determine the perfect solution for your next job.

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.

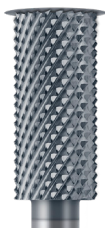
16 Finishing Core Tools Small



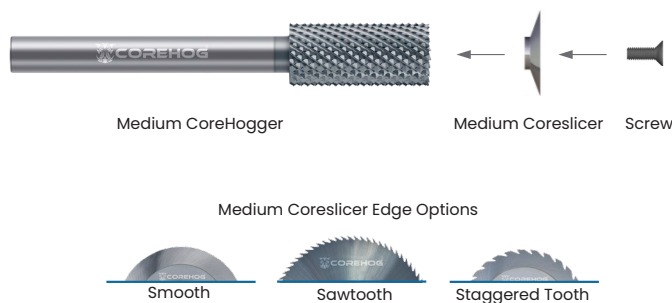
Optimized for machining in small closed features, such as pockets, joggles, and closed walls, these assembly style tools are engineered for the superior finishing of honeycomb core materials.



17 Finishing Core Tools Medium

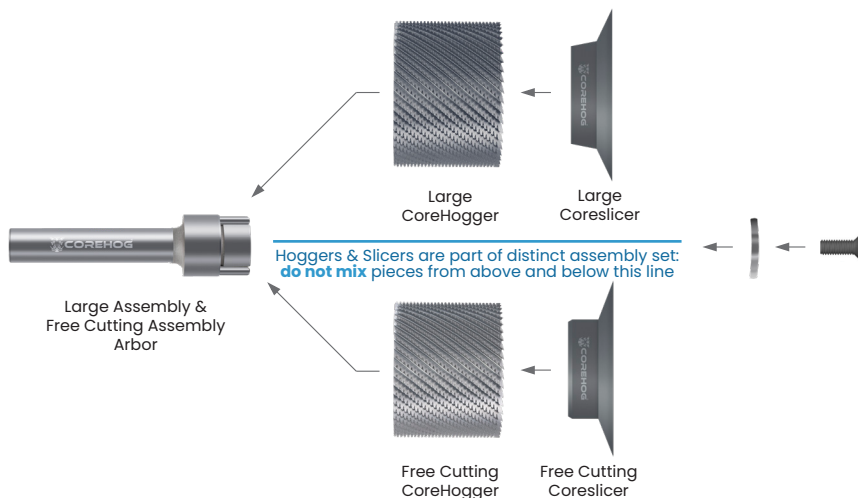


Designed for finishing honeycomb core materials, this assembly style CNC tooling is engineered for shaping smaller complex surfaces, bevels, and external radii.



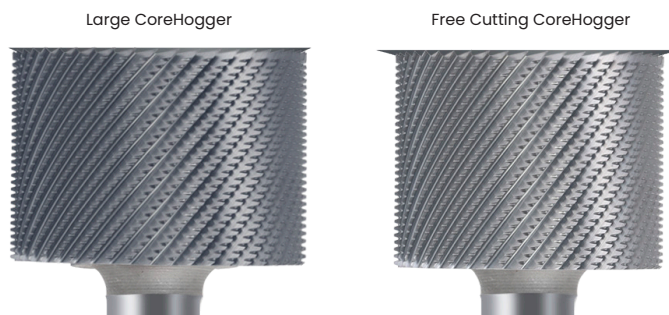
20 Finishing Core Tools Large

Manufactured 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.



23 Finishing Core Tools Free Cutting

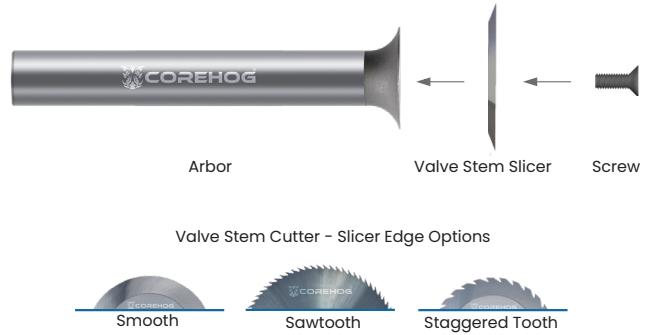
Engineered for large volume removal in chamfered or beveled applications of honeycomb core materials, this offering features a specialized geometry that exerts less tool pressure and avoids pushing material onto the table and dislodging the part.



28 Valve Stem Cutters



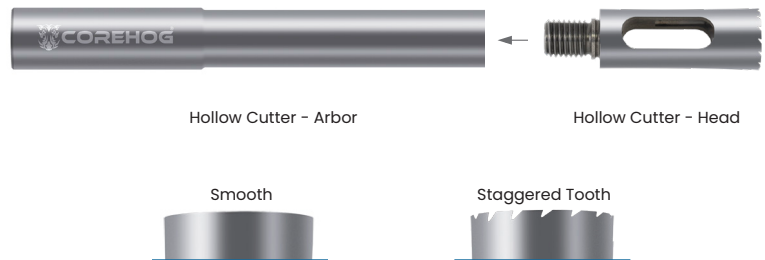
Assembly tooling engineered for machining honeycomb core materials and finishing thin features such as bevels and knife edge parts.



31 Wall Finishing Tools Hollow Cutters



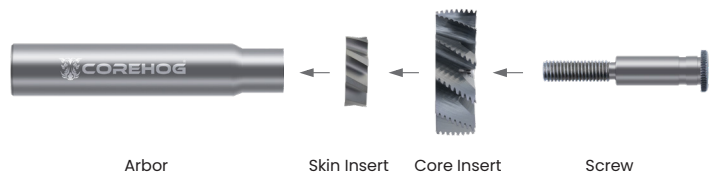
Leave a pristine finish on vertical and closed pocket walls of honeycomb core materials with CoreHog Hollow Cutters, available in solid carbide or high speed steel options.



40 Rebating Cutters



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

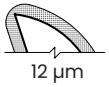


Coreslicer Edge Options

CoreHog's offerings of Smooth, Staggered Tooth, Sawtooth, and Wavy Coreslicers are each specially engineered to provide flag-free finishes and outstanding tool life in the materials and densities for which they are optimized. See the chart below to identify which edge option is best for your application.

Smooth	Staggered Tooth	Sawtooth	Wavy
Designed for all densities of Kevlar® and Nomex® and lighter density aluminum core of 5 pounds or less.	Engineered for medium density aluminum core weighing between 6 and 8 pounds.	Designed for machining heavier density Aluminum core weighing over 8 pounds.	Engineered to machine mixed density honeycomb core materials with hard epoxied bond lines.

Coatings Chart

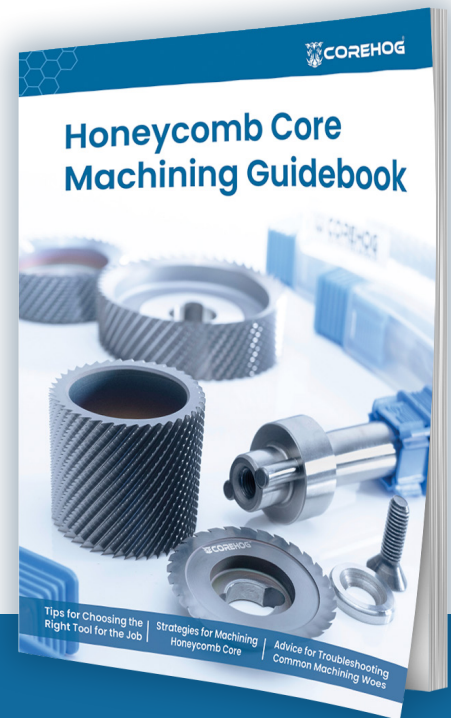
	DLC	CVD	PCD
	Diamond-Like coating has extremely sharp edges, improving lubricity and wear resistance in low temperature threshold applications of non-ferrous materials.	True Crystalline Diamond coating is grown directly onto a cutting tool, dramatically improving hardness, abrasion resistance, and feed 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.
Max. Working Temp.	600° F	1,100° F	1,100° F
Microhardness (HV 0.05)	2,400 (24 GPa)	8,157-10,200 (80 - 100 GPa)	8,973 - 9,993 (88 - 98 GPa)
Coefficient of Friction	.05 - .1	.05 - .30	.05 - .20
Coating Thickness	1 - 4 μ m	 Thinner CVD diamond layer provides a balance between wear resistance and edge sharpness  Thicker diamond layer for increased wear resistance.	.010" - .030" Solid PCD Layer
Structure	Mono-Layer	True Crystalline CVD Multi-Layer	Polycrystalline Diamond
Coating Color	Black	Gray	Gray / Black

	ZrN	TiN	TiCN	TiAlN
	Provides higher hardness, lubricity, and abrasion resistance over uncoated tooling when machining a variety of non-ferrous materials.	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.	1,300° F	1,100° F	750° F	1,300° F
Microhardness (HV 0.05)	2,400 (24 GPa)	2,400 (24 GPa)	3,500 (34 GPa)	3,300 (32 GPa)
Coefficient of Friction	.30	.50	.25	.60
Coating Thickness	1 - 4 μ m	1 - 7 μ m	1 - 4 μ m	1 - 4 μ m
Structure	Mono-Layer	Mono-Layer	Mono-Layer	Multi-Layer
Coating Color	Light Gold / Champagne	Gold	Gray / Silver	Dark Gray / Black

Honeycomb Core Machining Guidebook

What's inside:

- Tips for Choosing the Right Tool for the Job
- Strategies for Machining Honeycomb Core
- Advice for Troubleshooting Common Machining Woes



Your go-to resource for mastering core finishing, roughing, and more.

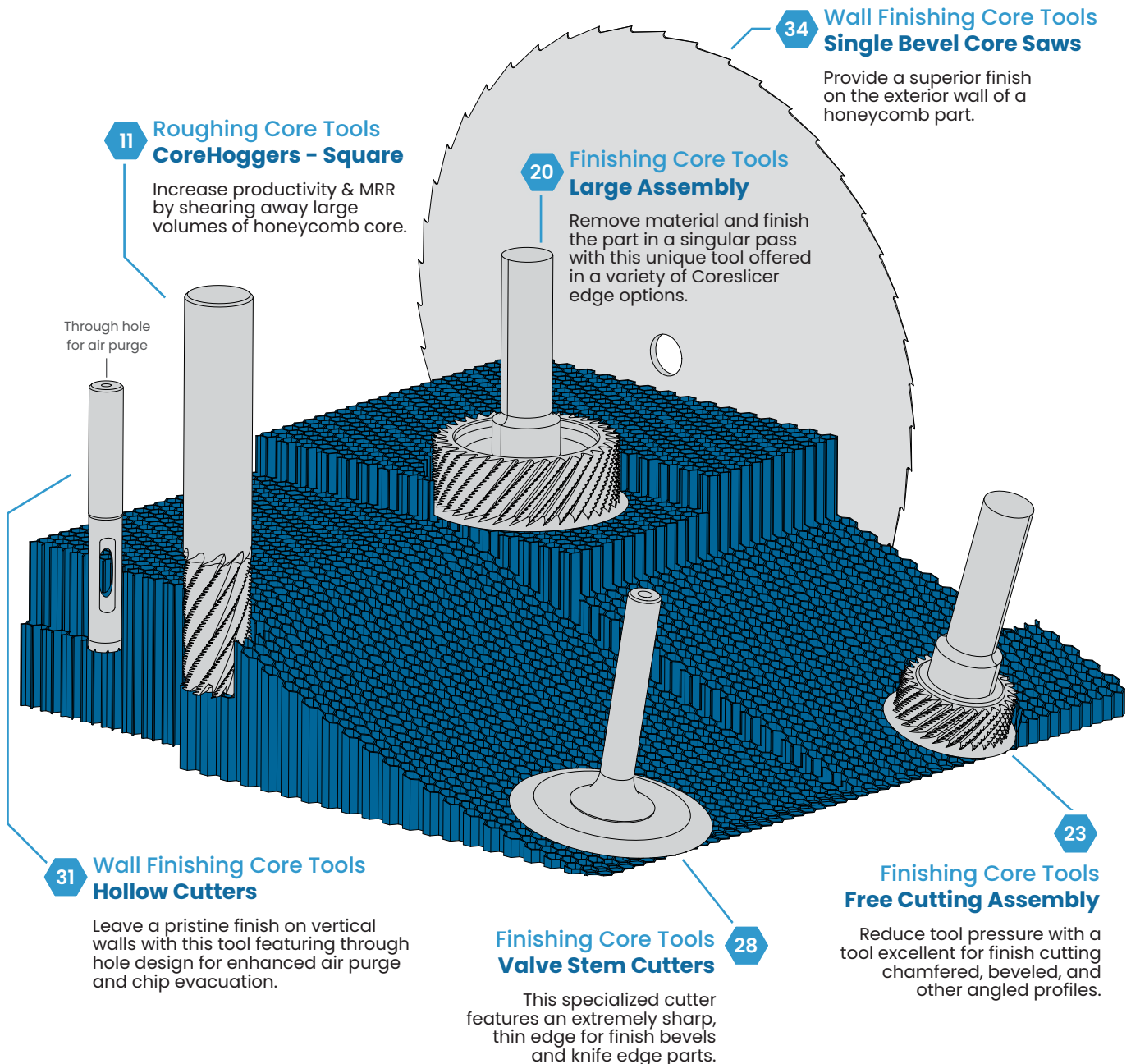


Scan the QR code to download our free guidebook & take the guesswork out of honeycomb core machining.



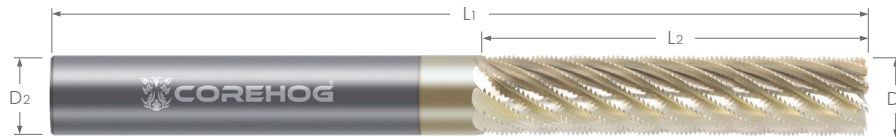
Tooling for Every Honeycomb Application

Explore CoreHog's offering of Honeycomb Core Cutting Tools, each specifically designed to machine unique features on honeycomb core parts.



Roughing Core Tools CoreHoggers – Square

- 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®, polyurethane foam, and Styrofoam
- Complex geometry reduces tool pressure by utilizing sharp sheering action which results in less part movement and increased speeds & feeds
- Center cutting
- ZrN coating offers higher hardness and added lubricity for maximum performance
- Solid carbide
- Precision manufactured in the USA



Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Flutes	ZrN Coated Tool #
.2500	1.250	.2500	2.500	6	C12463
.2500	1.250	.2500	3.000	6	C61211
.2500	1.250	.2500	4.000	6	C13568
.2500	2.750	.2500	6.000	6	C93954
.3750	2.000	.3750	4.000	8	C21583
.5000	2.000	.5000	4.000	10	C61071
.5000	3.000	.5000	6.000	10	C93134
16 mm	50.8 mm	16 mm	110 mm	10	C42950
.7500	2.000	.7500	4.000	10	C99519
.7500	3.000	.7500	6.000	10	C84370
.7500	4.000	.7500	8.000	10	C62278
20 mm	80 mm	20 mm	125 mm	10	C68953
1.0000	2.000	1.0000	4.000	10	C20991
1.0000	3.000	1.0000	6.000	10	C84163

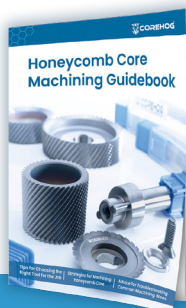
Roughing Core Tools

CoreHoggers – Square – 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®, polyurethane foam, and Styrofoam
- Complex geometry reduces tool pressure by utilizing sharp shearing action which results in less part movement and increased speeds & feeds
- End cutting
- TiCN coating for extended tool life and improved wear resistance
- Precision manufactured in the USA



Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Substrate	Flutes	TiCN Coated Tool #
2.5000	1.875	.7500	4.500	high speed steel	22	C26619
2.5000	1.875	.7500	4.500	carbide	22	C62908



Honeycomb Core Machining Guidebook

Your go-to resource for mastering core finishing, roughing, and more

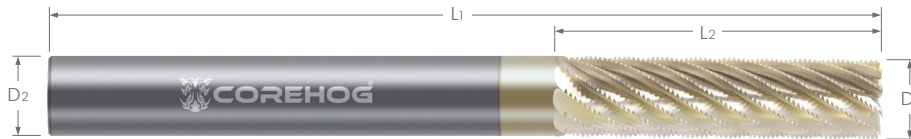


Scan the QR code to download our [free](#) guidebook and take the guesswork out of honeycomb core machining.

Roughing Core Tools

CoreHoggers – Square 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®, polyurethane foam, and Styrofoam
- Center cutting
- ZrN coating offers higher hardness and added lubricity for maximum performance
- Solid carbide
- Precision manufactured in the USA



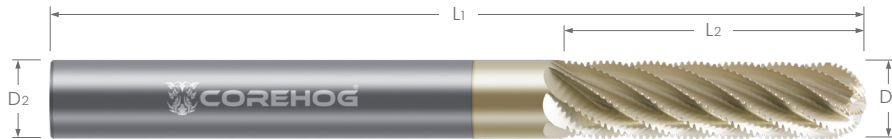
Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Flutes	ZrN Coated Tool #
.2500	1.250	.2500	2.500	6	C65069
.2500	1.250	.2500	4.000	6	C51558
.5000	2.000	.5000	4.000	10	C61225
.7500	2.000	.7500	4.000	10	C21033
.7500	3.000	.7500	6.000	10	C37889



Roughing Core Tools

CoreHoggers - Ball

- 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®, polyurethane foam, and Styrofoam
- Center cutting
- ZrN coating offers higher hardness and added lubricity for maximum performance
- Solid carbide
- Precision manufactured in the USA



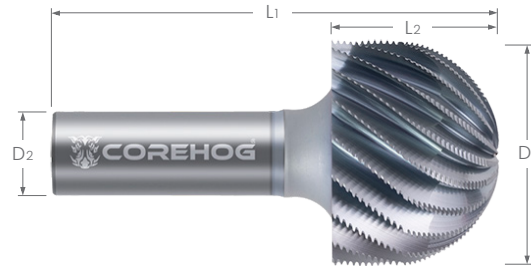
Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	ZrN Coated
D ₁	L ₂	D ₂	L ₁		Tool #
.2500	1.250	.2500	2.500	8	C37430
.2500	1.250	.2500	3.000	8	C16770
.2500	1.375	.2500	4.000	8	C11348
.2500	1.375	.2500	6.000	8	C60420
.3750	2.000	.3750	4.000	8	C70972
.5000	2.000	.5000	4.000	8	C28059
.5000	3.000	.5000	6.000	8	C95202
16 mm	50.8 mm	.630	110 mm	10	C41998
.7500	2.000	.7500	4.000	10	C69424
.7500	3.000	.7500	6.000	10	C50318
.7500	3.000	.7500	8.000	10	C96800
20 mm	80 mm	.787	125 mm	10	C59471
1.0000	2.000	1.0000	4.000	10	C34824
1.0000	3.000	1.0000	6.000	10	C90082

Roughing Core Tools

CoreHoggers – Ball – Reduced Shank

- 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®, polyurethane foam, and Styrofoam
- TiCN coating for extended tool life and improved wear resistance
- Precision manufactured in the USA



Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Substrate	Flutes	End Style	TiCN Coated Tool #
2.0000	1.500	.7500	4.000	high speed steel	18	end cutting	C41016
2.0000	1.500	.7500	4.000	carbide	18	center cutting	C42897

Finishing Core Tools

Small Coreslicers

- Engineered for the superior finishing of smaller honeycomb core materials
- Long reach design optimized for reaching into small, closed features such as pockets and closed walls
- Stocked in different edge types to provide excellent finishes in Aluminum, Nomex®, and Kevlar® cores
- 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
- Pair with a Small CoreHogger for increased performance



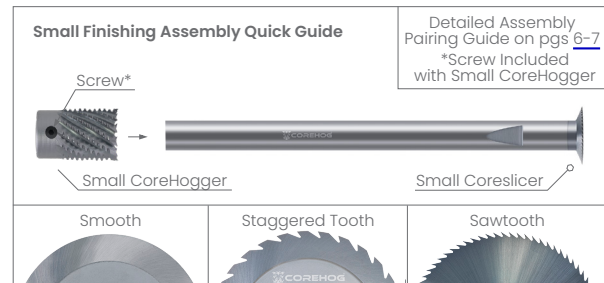
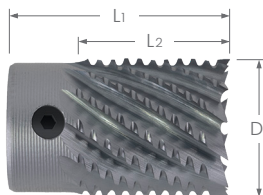
Diameter D1	Edge Type	Shank Diameter D2	Overall Length L1	Flutes	Assembly Size Pairing	TiCN Coated Tool #
.1960 (5 mm)	Smooth	.1180 (3 mm)	1.417 (36 mm)	-	-	C39016*
.3930 (10 mm)	Smooth	.1960 (5 mm)	4.000	-	.393	C37473
.3930 (10 mm)	Staggered Tooth	.1960 (5 mm)	4.000	14	.393	C60175
.3930 (10 mm)	Sawtooth	.1960 (5 mm)	4.000	30	.393	C68738
.5000	Smooth	.2500	4.000	-	.500	C24361
.5000	Staggered Tooth	.2500	4.000	20	.500	C16343
.5000	Sawtooth	.2500	4.000	45	.500	C27014

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

Finishing Core Tools

Small CoreHoggers

- Optimized for shaping smaller complex surfaces, bevels, and external radii in honeycomb core materials
- Designed to machine Aluminum, Nomex®, and Kevlar® cores
- TiCN coating for extended tool life and improved wear resistance
- Ground from specially matched powdered metals
- Precision manufactured in the USA
- Must be paired with Small Coreslicer for use. For proper prying, reference "Small Finishing Assembly Quick Guide"



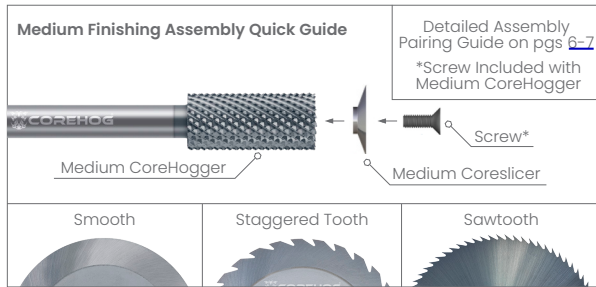
Diameter D1	Length of Cut L2	Overall Length L1	Assembly Size Pairing	TiCN Coated Tool #
.3500	.500	.750	.393	C74686
.4750	.500	.750	.500	C81725

See page 30 for Replacement Parts

Finishing Core Tools Medium Coreslicers

- Engineered for finishing 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 improved lubricity and wear resistance

- Solid carbide
- Precision manufactured in the USA
- Must be paired with Medium CoreHogger for use. For proper pairing, reference “Medium Finishing Assembly Quick Guide”

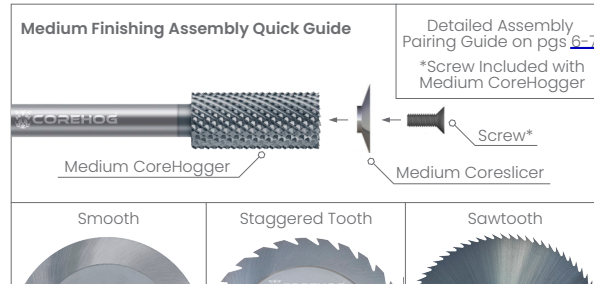


Diameter D1	Edge Type	Flutes	Assembly Size Pairing	DLC Coated
				Tool #
.5000	Smooth	-	.500	C81787
.5000	Staggered Tooth	20	.500	C44201
.5000	Sawtooth	45	.500	C57739
.7500	Smooth	-	.750	C36226
.7500	Staggered Tooth	36	.750	C59966
.7500	Sawtooth	60	.750	C15072
1.0000	Smooth	-	1.000	C12789
1.0000	Staggered Tooth	40	1.000	C11921
1.0000	Sawtooth	65	1.000	C53187

Finishing Core Tools

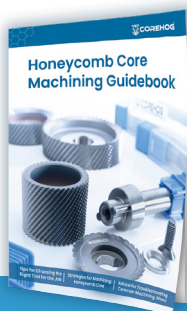
Medium CoreHoggers - Carbide

- Optimized for shaping complex surfaces, bevels, and external radii in honeycomb core materials
- Designed to machine Aluminum, Nomex®, and Kevlar® cores
- Solid carbide
- Precision manufactured in the USA
- Must be paired with Medium Coreslicer for use. For proper pairing, reference "Medium Finishing Assembly Quick Guide"



Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Flutes	Assembly Size Pairing	Uncoated Tool #
16 mm	30 mm	16 mm	120 mm	20	.750 / 1.000	C51776
.6690 (17 mm)	1.300	.5000	4.750	25	.750 / 1.000	C54609
.8750 (7/8)	1.300	.5000	4.000	25	1.000	C11495

See page 30 for Replacement Parts



Honeycomb Core Machining Guidebook

Your go-to resource for mastering core finishing, roughing, and more



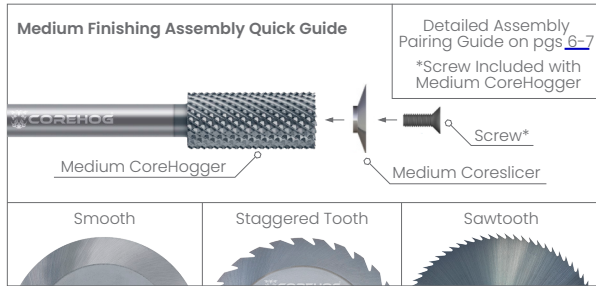
Scan the QR code to download our [free](#) guidebook and take the guesswork out of honeycomb core machining.

Finishing Core Tools

Medium CoreHoggers – Powdered Metal

- Optimized for shaping complex surfaces, bevels, and external radii in honeycomb core materials
- Designed to machine Aluminum, Nomex®, and Kevlar® cores
- TiCN coating for extended tool life and improved wear resistance

- Ground from specially matched powdered metals
- Precision manufactured in the USA
- Must be paired with Medium Coreslicer for use. For proper pairing, reference “Medium Finishing Assembly Quick Guide”



Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Flutes	Assembly Size Pairing	TiCN Coated Tool #
.4720 (12 mm)	1.300	.3750	3.300	10	.500	C32428
.6690 (17 mm)	1.000	.3750	3.000	25	.750 / 1.000	C23037
.6690 (17 mm)	1.300	.5000	3.500	25	.750 / 1.000	C38452
.6690 (17 mm)	1.300	.5000	4.750	25	.750 / 1.000	C20657
.8750 (7/8)	1.500	.5000	3.500	25	1.000	C53955

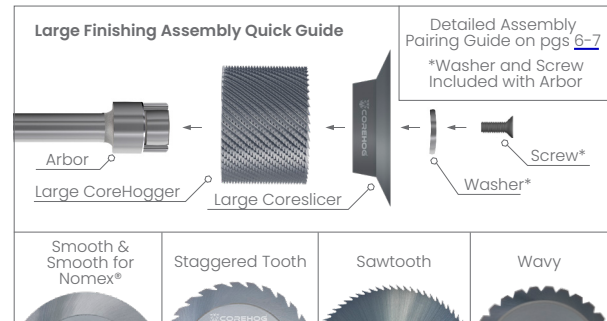
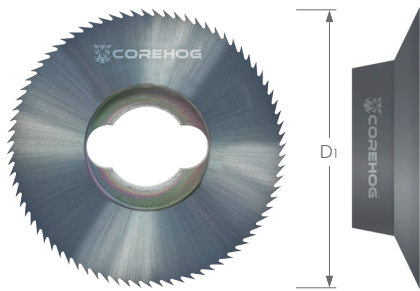
See page 30 for Replacement Parts

Finishing Core Tools

Large Coreslicers

- Designed to finish large surface area parts in honeycomb core materials
- Stocked in different edge types to provide excellent finishes in Aluminum, Nomex®, and Kevlar® cores
- DLC coating for improved lubricity and wear resistance

- Solid carbide
- Precision manufactured in the USA
- Must be paired with Large CoreHogger and Arbor for use. For proper pairing, reference "Large Finishing Assembly Quick Guide"



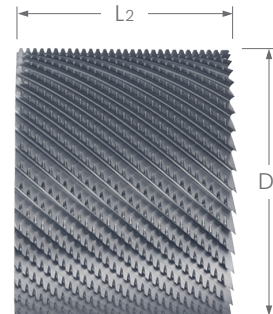
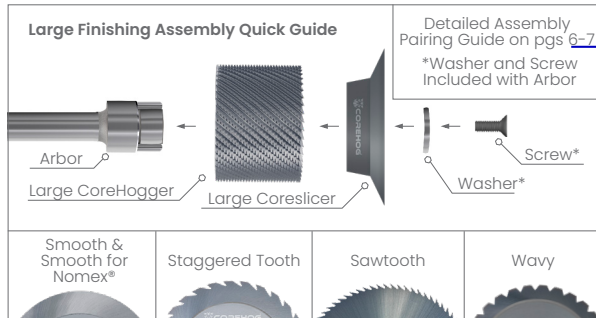
Diameter D1	Edge Type	Flutes	Assembly Size Pairing	DLC Coated
				Tool #
1.5000	Smooth	-	1.500	C01135
1.5000	Smooth for Nomex	-	1.500	C49054
1.5000	Staggered Tooth	40	1.500	C19119
1.5000	Sawtooth	75	1.500	C21919
1.5000	Wavy	25	1.500	C88623
2.0000	Smooth	-	2.000	C12149
2.0000	Smooth for Nomex	-	2.000	C44070
2.0000	Staggered Tooth	40	2.000	C40544
2.0000	Sawtooth	90	2.000	C37261
2.0000	Wavy	30	2.000	C52001
3.0000	Smooth	-	3.000	C64415
3.0000	Smooth for Nomex	-	3.000	C12028
3.0000	Staggered Tooth	60	3.000	C54747
3.0000	Sawtooth	110	3.000	C58561
3.0000	Wavy	40	3.000	C19254
45 mm	Smooth	-	45 mm (A) / 45 mm (B)	C84541
45 mm	Smooth for Nomex	-	45 mm (A) / 45 mm (B)	C99863
45 mm	Staggered Tooth	30	45 mm (A) / 45 mm (B)	C25382
45 mm	Sawtooth	70	45 mm (A) / 45 mm (B)	C87837
45 mm	Wavy	35	45 mm (A) / 45 mm (B)	C86059
63 mm	Smooth	-	63 mm (A) / 63 mm (B)	C55856
63 mm	Smooth for Nomex	-	63 mm (A) / 63 mm (B)	C70889
63 mm	Staggered Tooth	40	63 mm (A) / 63 mm (B)	C85026
63 mm	Sawtooth	110	63 mm (A) / 63 mm (B)	C70694
63 mm	Wavy	35	63 mm (A) / 63 mm (B)	C20615

Finishing Core Tools

Large CoreHoggers – Carbide

- Optimized for large volume material removal of honeycomb core materials
- Designed to machine Aluminum, Nomex®, and Kevlar® cores
- Standard 40° helix
- TiCN coating for extended tool life and improved wear resistance

- Solid carbide
- Precision manufactured in the USA
- Must be paired with Large Coreslicer and Arbor for use. For proper pairing, reference "Large Finishing Assembly Quick Guide"



Diameter D1	Length of Cut L2	Assembly Size Pairing	Uncoated	TiCN Coated
			Tool #	Tool #
1.4700	.630	1.500	C57005	
1.4700	1.125	1.500	C22238	
44 mm	.630	45 mm (A)	C21741	
44 mm	1.250	45 mm (B)	C23293	
1.9500	.750	2.000	C78723	
1.9500	1.500	2.000	C24404	C52278
61.50 mm	.700	63 mm (A)	C16317	
61.50 mm	1.200	63 mm (B)	C42917	
2.7500	.950	3.000	C31813	

Because of the connection angle, Hoggers and Slicers must both come from either the **Large Assembly** or the **Free Cutting Assembly**.
Do not mix Large and Free Cutting Assemblies.



Large Assembly
Begins pg. 20



Free Cutting Assembly
Begins pg. 23



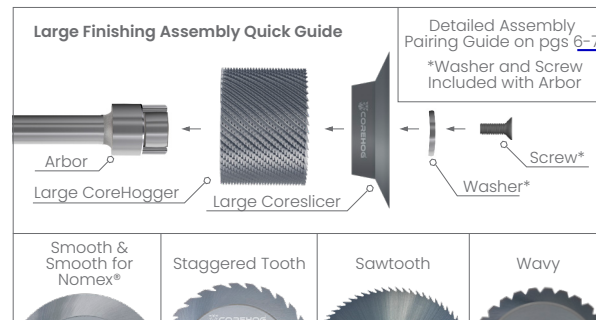
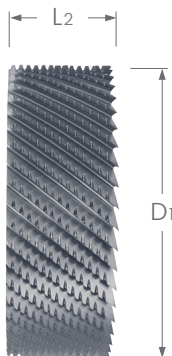
Need Help Deciding?

Explore the advantages and limitations of both Traditional Finishing Core Tools and Free Cutting Core Tools, helping you determine the right choice for your unique manufacturing needs.

Finishing Core Tools

Large CoreHoggers – Powdered Metal

- Optimized for large volume material removal of honeycomb core materials
- Designed to machine Aluminum, Nomex®, and Kevlar® cores
- Standard 40° helix
- TiCN coating for extended tool life and improved wear resistance
- DLC coating for improved lubricity and wear resistance
- Ground from specially matched powdered metals
- Precision manufactured in the USA
- Must be paired with Large Coreslicer and Arbor for use. For proper pairing, reference “Large Finishing Assembly Quick Guide”



Diameter D1	Length of Cut L2	Assembly Size Pairing	TiCN Coated	DLC Coated
			Tool #	Tool #
1.4700	.630	1.500		C65782
1.4700	1.125	1.500		C69376
44 mm	.630	45 mm (A)	C72191	
1.9500	.750	2.000	C21117	
1.9500	1.500	2.000	C30885	C78023*
61.50 mm	.700	63 mm (A)	C80551	
61.50 mm	1.200	63 mm (A)	C62919	
2.7500	.950	3.000	C84212	

* 3° helix

Because of the connection angle, Hoggers and Slicers must both come from either the **Large Assembly** or the **Free Cutting Assembly**.
Do not mix Large and Free Cutting Assemblies.



Large Assembly
Begins pg. 20



Free Cutting Assembly
Begins pg. 23

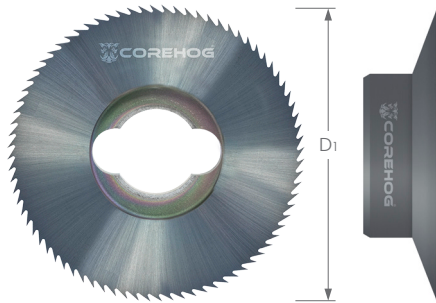


Need Help Deciding?

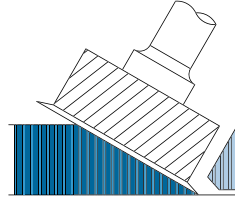
Explore the advantages and limitations of both Traditional Finishing Core Tools and Free Cutting Core Tools, helping you determine the right choice for your unique manufacturing needs.

Finishing Core Tools Free Cutting Coreslicers

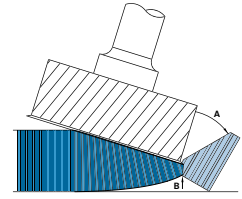
- Designed to finish cut chamfered, beveled, and other angled profiles in honeycomb core materials
- Free cutting geometry exerts less tool pressure and avoids pushing material onto table and dislodging part
- Stocked in different edge types to provide excellent finishes in Aluminum, Nomex®, and Kevlar® cores



- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA
- Must be paired with Free Cutting CoreHogger and Arbor for use. For proper pairing, reference "Free Cutting Finishing Assembly Quick Guide" on pages 6-7



Free cutting geometry reduces tool pressure to cleanly cut chamfered parts



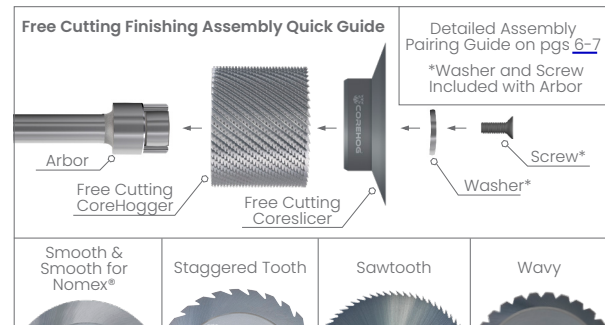
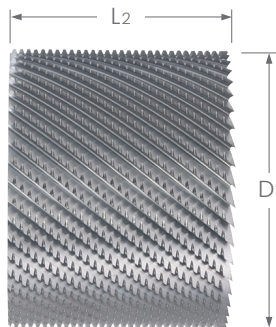
Avoids high tool pressure (A) that creates lifting force (B) on chamfered parts

Diameter D1	Edge Type	Flutes	Assembly Size Pairing	DLC Coated
				Tool #
1.5000	Smooth	-	1.500	C78420
1.5000	Smooth for Nomex	-	1.500	C82789
1.5000	Staggered Tooth	40	1.500	C72007
1.5000	Sawtooth	75	1.500	C24792
1.5000	Wavy	25	1.500	C76245
2.0000	Smooth	-	2.000	C61615
2.0000	Smooth for Nomex	-	2.000	C44901
2.0000	Staggered Tooth	40	2.000	C34011
2.0000	Sawtooth	90	2.000	C81172
2.0000	Wavy	30	2.000	C32831
3.0000	Smooth	-	3.000	C10149
3.0000	Smooth for Nomex	-	3.000	C94511
3.0000	Staggered Tooth	60	3.000	C22896
3.0000	Sawtooth	110	3.000	C91327
3.0000	Wavy	40	3.000	C28567
45 mm	Smooth	-	45 mm (A)	C25781
45 mm	Smooth for Nomex	-	45 mm (A)	C75184
45 mm	Staggered Tooth	30	45 mm (A)	C19814
45 mm	Sawtooth	70	45 mm (A)	C26683
45 mm	Wavy	35	45 mm (A)	C61678
63 mm	Smooth	-	63 mm (A)	C53271
63 mm	Smooth for Nomex	-	63 mm (A)	C93584
63 mm	Staggered Tooth	40	63 mm (A)	C23395
63 mm	Sawtooth	110	63 mm (A)	C93832
63 mm	Wavy	35	63 mm (A)	C75720

Finishing Core Tools

Free Cutting CoreHoggers – Carbide

- Optimized for large volume material removal in chamfered or beveled applications of honeycomb core materials
- Geometry exerts less tool pressure and avoids pushing material onto table and dislodging part
- Designed to machine Aluminum, Nomex®, and Kevlar® cores
- Solid carbide
- Precision manufactured in the USA
- Must be paired with Free Cutting Coreslicer and Arbor for use. For proper pairing, reference "Free Cutting Finishing Assembly Quick Guide"



Diameter D ₁	Length of Cut L ₂	Assembly Size Pairing	Uncoated Tool #
1.3130	.630	1.500	C39697
1.3130	1.125	1.500	C82001
38 mm	.630	45 mm (A)	C53787
38 mm	1.250	45 mm (A)	C39137
1.7320	.630	2.000	C31044
1.7320	1.500	2.000	C68437
56 mm	.700	63 mm (A)	C40154
56 mm	1.200	63 mm (A)	C87553
2.7000	.950	3.000	C41094

Because of the connection angle, Hoggers and Slicers must both come from either the **Large Assembly** or the **Free Cutting Assembly**.
Do not mix Large and Free Cutting Assemblies.



Large Assembly
Begins pg. 20



Free Cutting Assembly
Begins pg. 23



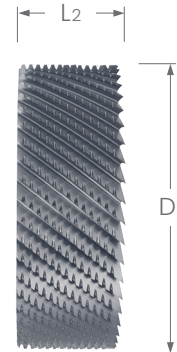
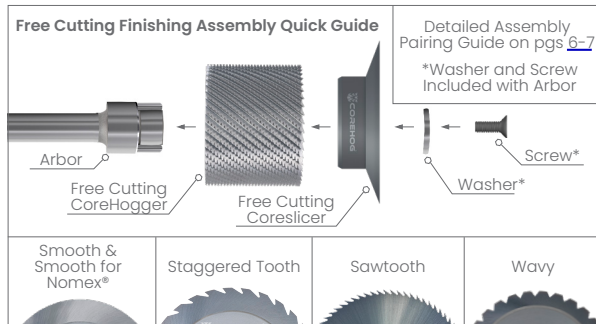
Need Help Deciding?

Explore the advantages and limitations of both Traditional Finishing Core Tools and Free Cutting Core Tools, helping you determine the right choice for your unique manufacturing needs.

Finishing Core Tools

Free Cutting CoreHoggers – Powdered Metal

- Optimized for large volume material removal in chamfered or beveled applications of honeycomb core materials
- Geometry exerts less tool pressure and avoids pushing material onto table and dislodging part
- Designed to machine Aluminum, Nomex®, and Kevlar® cores
- TiCN coating for extended tool life and improved wear resistance
- Ground from specially matched powdered metals
- Precision manufactured in the USA
- Must be paired with Free Cutting Coreslicer and Arbor for use. For proper pairing, reference "Free Cutting Finishing Assembly Quick Guide"



Diameter D ₁	Length of Cut L ₂	Assembly Size Pairing	TiCN Coated Tool #
1.3130	.630	1.500	C37934
1.3130	1.125	1.500	C51973
38 mm	.630	45 mm (A)	C54520
38 mm	1.250	45 mm (A)	C95738
1.7320	.630	2.000	C32215
1.7320	1.500	2.000	C45383
56 mm	.700	63 mm (A)	C22020
56 mm	1.200	63 mm (A)	C60464
2.7000	.950	3.000	C65360

Because of the connection angle, Hoggers and Slicers must both come from either the **Large Assembly** or the **Free Cutting Assembly**.
Do not mix Large and Free Cutting Assemblies.



Large Assembly
Begins pg. 20



Free Cutting Assembly
Begins pg. 23



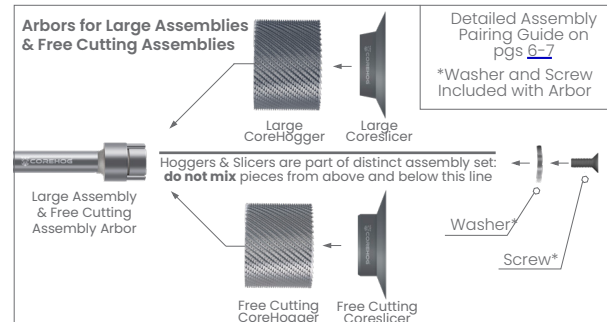
Need Help Deciding?

Explore the advantages and limitations of both Traditional Finishing Core Tools and Free Cutting Core Tools, helping you determine the right choice for your unique manufacturing needs.

Finishing Core Tools

Arbors for Large Assemblies & Free Cutting Assemblies

- 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
- Must be paired with Large CoreHogger and Coreslicer or Free Cutting CoreHogger and Coreslicer for use. For proper pairing, reference “Arbors for Large Assemblies & Free Cutting Assemblies”



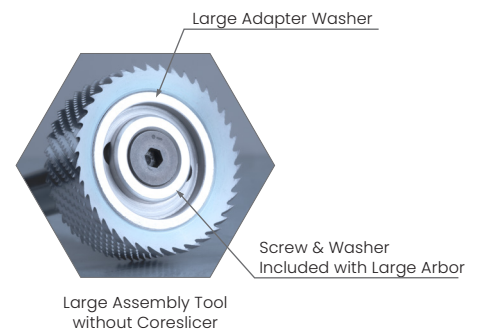
Shank Diameter D2	Overall Length L1	Assembly Size Pairing	Uncoated Tool #
12 mm	90 mm	2.000 / 63 mm (A) / 3.000	C84383
.5000	3.500	1.500 / 45 mm (A)	C79286
.5000	3.500	2.000 / 63 mm (A) / 3.000	C87981
.6250	3.500	2.000 / 63 mm (A) / 3.000	C46720
.6250	4.070	45 mm (B)	C49903
16 mm	90 mm	63 mm (B)	C26433
.7500	4.250	63 mm (B)	C24685

See page 30 for Replacement Parts

Finishing Core Tools

Large Adapter Washer

- Allows CoreHogger to be utilized for roughing applications without the need for a Coreslicer
- Not for use with assemblies that include Large Coreslicer
- Hardened steel
- Adapter is compatible with Large CoreHoggers. Not for use with Free Cutting CoreHogger



Assembly Size Pairing	Uncoated Tool #
2.000 / 63mm (A) / 63mm (B) / 3.000	C69287
1.500 / 45mm (A) / 45mm (B)	C83666

Finishing Core Tools Valve Stem Cutters – Integrated Shank

- Excellent for finishing shallow bevels and highly acute angles in honeycomb
- Low profile design minimizes vertical (lifting) forces to effectively produce knife edge parts
- Often used to separate the knife edge from the surrounding material with parting off motion
- Integrated shank and tapered neck design provides high radial 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 D1	Edge Type	Shank Diameter D2	Overall Length L1	Flutes	TiCN Coated Tool #
.7500	Smooth	.2500	3.000	-	C33276
.7500	Staggered Tooth	.2500	3.000	36	C67092
.7500	Sawtooth	.2500	3.000	60	C21155
1.0000	Smooth	.2500	3.000	-	C15602
1.0000	Staggered Tooth	.2500	3.000	40	C17155
1.0000	Sawtooth	.2500	3.000	65	C12535



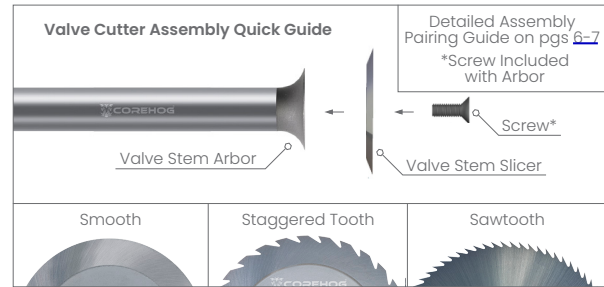
**Find the Perfect CoreHog Tool for Your
Next Job With Product Table Filtering**

corehog.com

Finishing Core Tools

Valve Stem Cutters – Slicers

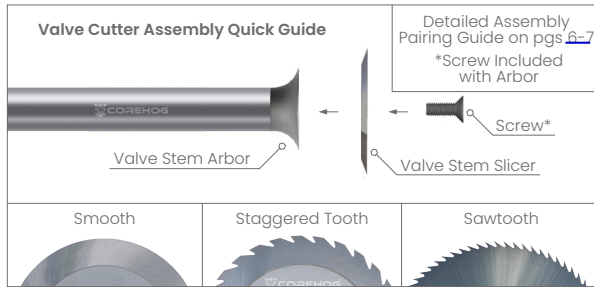
- Excellent for finish bevel or knife edge parts
- Often used to separate the knife edge from the surrounding material with parting off motion
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA
- Must be paired with Valve Stem Arbor for use. For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



Diameter D1	Edge Type	Flutes	Assembly Size Pairing	DLC Coated
				Tool #
1.5000	Smooth	-	1.500	C34019
1.5000	Staggered Tooth	40	1.500	C22937
1.5000	Sawtooth	75	1.500	C85199
2.0000	Smooth	-	2.000	C87352
2.0000	Staggered Tooth	40	2.000	C62872
2.0000	Sawtooth	90	2.000	C41900
75 mm	Smooth	-	75 mm	C60434
75 mm	Staggered Tooth	60	75 mm	C39158
75 mm	Sawtooth	160	75 mm	C42038
3.0000	Smooth	-	3.000	C26818
3.0000	Staggered Tooth	60	3.000	C50484
3.0000	Sawtooth	110	3.000	C23286

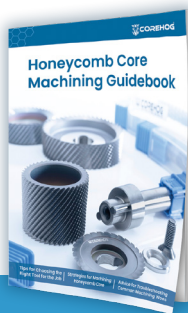
Finishing Core Tools Valve Stem Cutters – Arbors

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



Shank Diameter D2	Overall Length L1	Assembly Size Pairing	Uncoated
			Tool #
.5000	3.500	1.000	C67352
.5000	3.500	1.500	C20736
.5000	3.500	75 mm / 3.000	C99465
.5000	3.500	2.000	C14216
12 mm	89 mm	2.000	C24452

See page 30 for Replacement Parts



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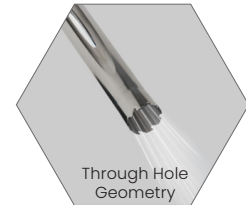
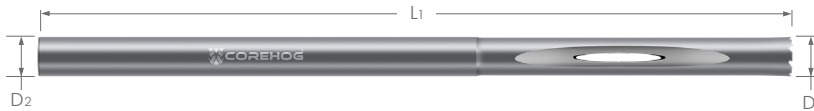
Finishing Core Tools Replacement Parts

- Offering of replacement washers and screws utilized with Finishing Core Tools
- Parts are direct replacements for lost or damaged parts included with purchase of Finishing Core Tool Arbor
- Parts offered are for respective Finishing Core Tools - Small, Medium, Large, Free Cutting, and Valve Stem Cutters

		Compatibility	Assembly Size Pairing	Screw	Washer
				Tool #	Tool #
		Finishing Core Tools - Small	.393 / .500	C38140	-
		Finishing Core Tools - Medium	.500	C48216	-
		Finishing Core Tools - Medium	.750 / 1.000	C27298	-
		Finishing Core Tools - Large & Free Cutting	2.000 / 63mm (A) / 3.000	C58247	C23586
		Finishing Core Tools - Large & Free Cutting	1.500 / 45mm (A) / 45mm (B)	C13893	C16993
		Finishing Core Tools - Large	63mm (B)	C51396	C87329
		Finishing Core Tools - Valve Stem	1.000 / 1.500	C41631	-
		Finishing Core Tools - Valve Stem	2.000 / 75mm	C53960	-

Wall Finishing Core Tools Hollow Cutters – Integrated Shank

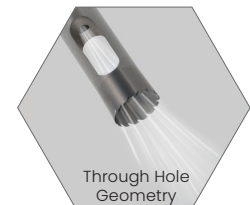
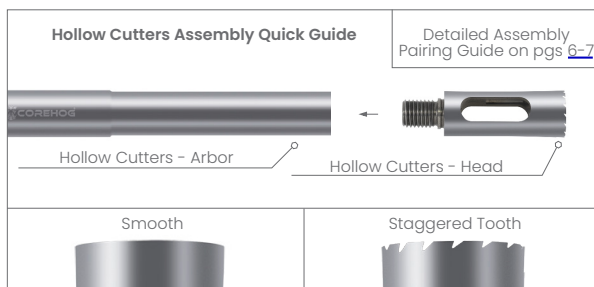
- Designed to leave pristine flag-free finish on vertical and closed pocket walls
- Through hole geometry for enhanced air purge and chip evacuation
- Optimized for use in honeycomb core materials
- Solid carbide
- Precision manufactured in the USA



Diameter D1	Edge Type	Shank Diameter D2	Overall Length L1	Flutes	Uncoated Tool #
.2500	Smooth	.2500	4.000	-	C99648
.2500	Staggered	.2500	4.000	8	C53454

Wall Finishing Core Tools Hollow Cutters – Head

- Designed to leave pristine flag-free 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
- Precision manufactured in the USA
- Must be paired with Hollow Cutter Arbor for use. For proper pairing, reference "Assembly Size Pairing" below

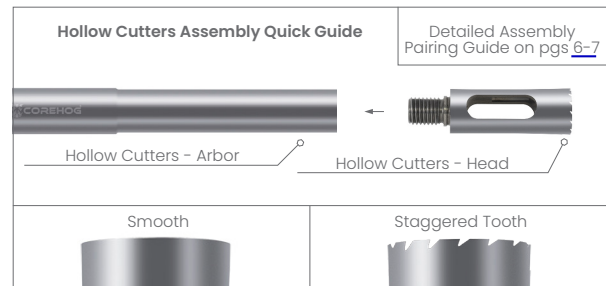
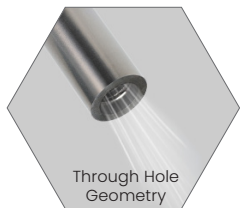
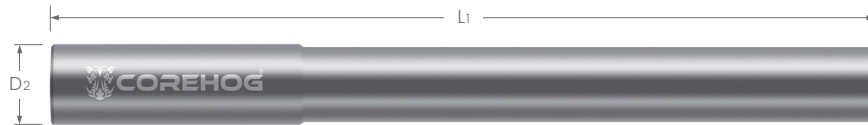


Diameter D1	Edge Type	Overall Length L1	Assembly Size Pairing	Uncoated Tool #
.3750	Smooth	1.300	.375	C23309
.3750	Staggered Tooth	1.300	.375	C77883
.5000	Smooth	1.300	.500	C78051
.5000	Staggered Tooth	1.300	.500	C24773
.7500	Smooth	1.300	.750	C64381
.7500	Staggered Tooth	1.300	.750	C16457

Wall Finishing Core Tools

Hollow Cutters – Arbor

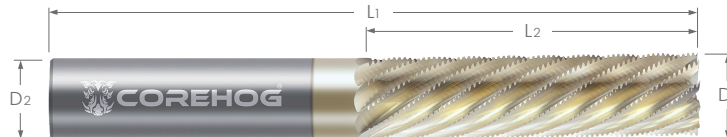
- Designed to leave pristine finish on vertical and closed pocket walls
- Through hole geometry for enhanced air purge and chip evacuation
- Optimized for use in honeycomb core materials
- High speed steel
- Precision manufactured in the USA
- Must be paired with Hollow Cutter – Head for use. For proper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



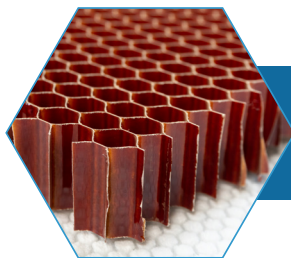
Shank Diameter D2	Overall Length L1	Assembly Size Pairing	Uncoated
			Tool #
.3750	2.700	.375	C85636
.3750	5.700	.375	C96446
.5000	2.700	.500	C92355
.5000	5.700	.500	C75687
.7500	2.700	.750	C04236
.7500	5.700	.750	C45203

Wall Finishing Core Tools CoreHoggers – Left Hand

- Engineered to quickly machine vertical walls with minimized cell flagging in non-metallic honeycomb materials
- Easy to program and alter toolpaths using traditional equipment (3 axis machines or better)
- Center cutting
- ZrN coating offers higher hardness and added lubricity for maximum performance
- Solid carbide
- Precision manufactured in the USA



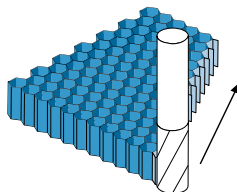
Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	ZrN Coated
D1	L2	D2	L1		Tool #
.2500	1.250	.2500	2.500	6	C23956
.2500	1.250	.2500	4.000	6	C31748
.2500	2.750	.2500	6.000	6	C28371
.3750	2.000	.3750	4.000	8	C46610
.5000	2.000	.5000	4.000	10	C16350
.5000	3.000	.5000	6.000	10	C31093
.7500	2.000	.7500	4.000	10	C94437
.7500	3.000	.7500	6.000	10	C33517
1.0000	2.000	1.0000	4.000	10	C42937
1.0000	3.000	1.0000	6.000	10	C25658



Strategy

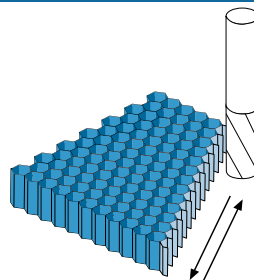
Using CoreHoggers to finish composite honeycomb core

When used with standard CoreHoggers, Left Hand CoreHoggers quickly and effectively finish vertical walls



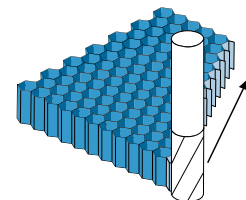
Step 1

Using standard Corehogger (**Right Hand Cut, page 11**) and conventional milling, rough cut honeycomb part leaving 1/8" extra material from final profile.



Step 2

Using Left Hand Corehogger (**Left Hand Cut, page 33**) and running spindle counterclockwise (M04), machine to final profile with one conventional milling pass and one climb milling pass.



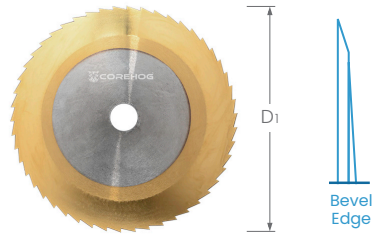
Step 3

Using standard Corehogger (**Right Hand Cut, page 11**) and conventional milling, machine to final profile (spring pass).

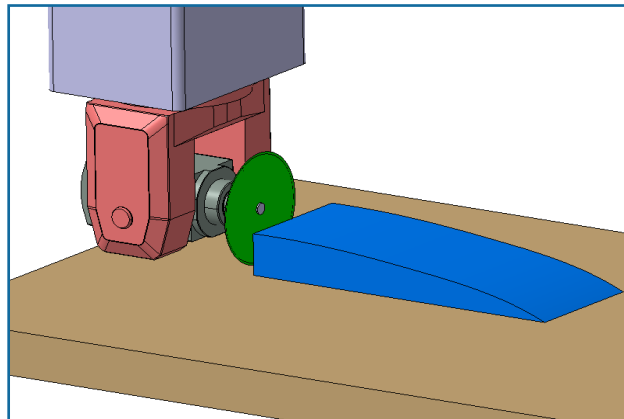
Wall Finishing Core Tools

Single Bevel Core Saws

- Engineered for obtaining superior finishes on exterior walls and other flat surfaces
- Unique large diameter design provides clearance allowing spindles to be utilized at a 90° angle and removes the need for risers to raise parts
- TiN coating for excellent hardness and improved lubricity
- Pairs well with any standard arbor
- High speed steel
- Precision manufactured in Germany



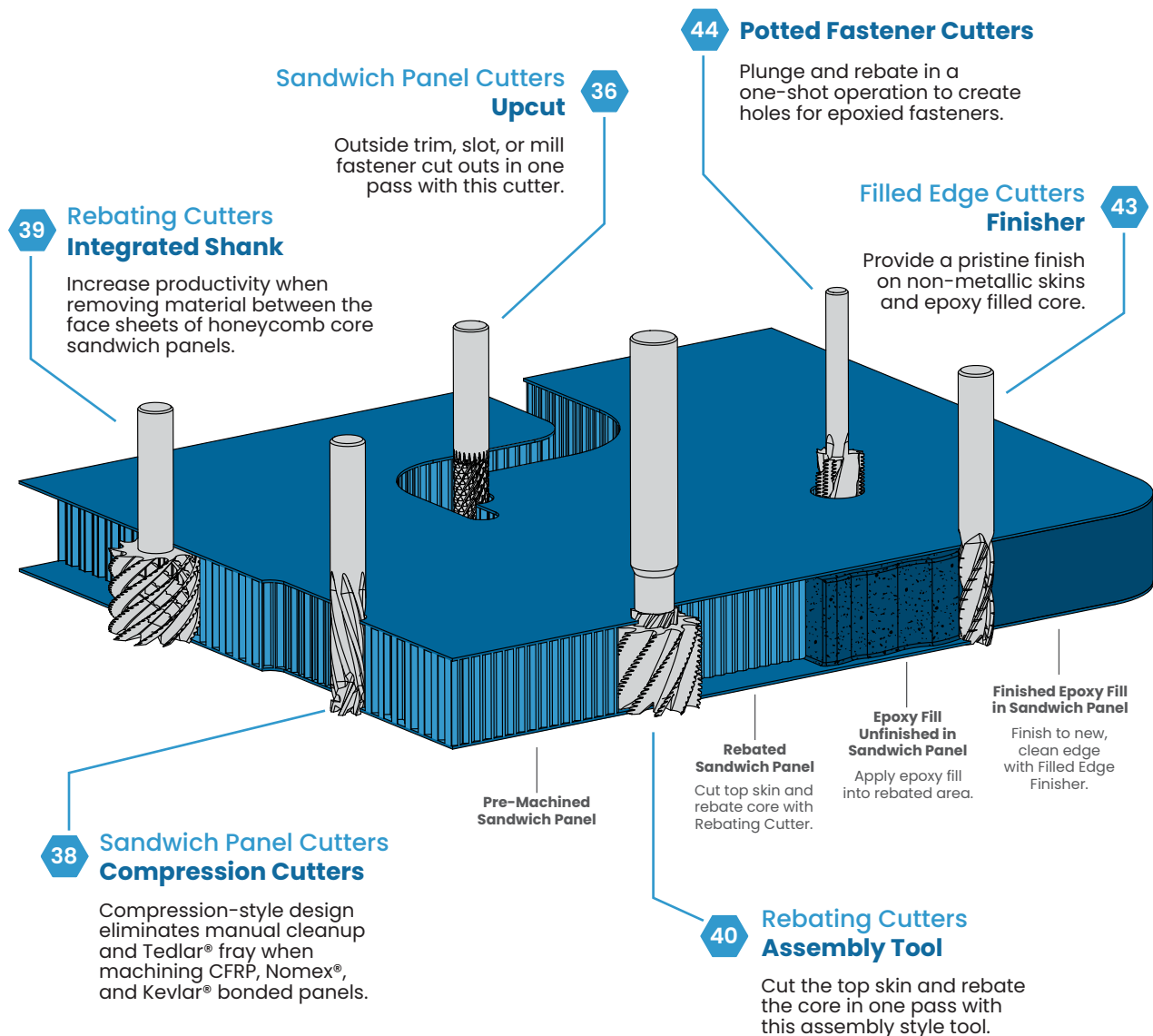
Diameter D1	Thickness	Arbor Hole	Flutes	TiN Coated Tool #
250 mm	3 mm	.625	50	<u>C68081</u>
300 mm	3 mm	30 mm	60	<u>C76240</u>



Used at 90° angle for superior finishes on exterior walls

Tooling for Every Sandwich Panel Application

Discover CoreHog's selection of Sandwich Panel Cutters, engineered for precise and efficient machining of composite sandwich panels.



Sandwich Panel Cutters – Upcut

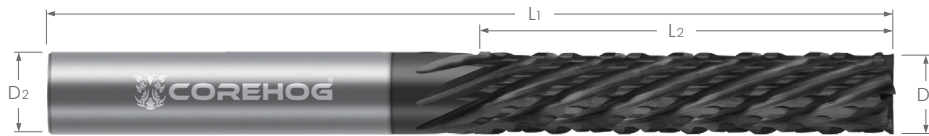
- Optimized for profiling, trimming, slotting and milling cutouts for fasteners
- Engineered to eliminate manual cleanup of parts after machining
- Increases cutting rates by up to 300% compared to conventional cutters
- Can be used in flat bottom areas when needed for bonding in fasteners
- Geometry allows for free cutting while maintaining excellent tool life and finishes with minimal flagging and fuzz
- Provides excellent performance in CFRP, Nomex®, and Kevlar® bonded panels
- Center cutting
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA



Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Flutes	DLC Coated Tool #
.2500	.625	.2500	2.500	8	C53435
.2500	1.250	.2500	2.500	8	C36623
.3750	.875	.3750	2.500	12	C22069
.3750	1.250	.3750	2.500	12	C34819
.5000	.750	.5000	3.000	10	C05893
.5000	1.375	.5000	3.000	10	C76408

Sandwich Panel Cutters – Downcut

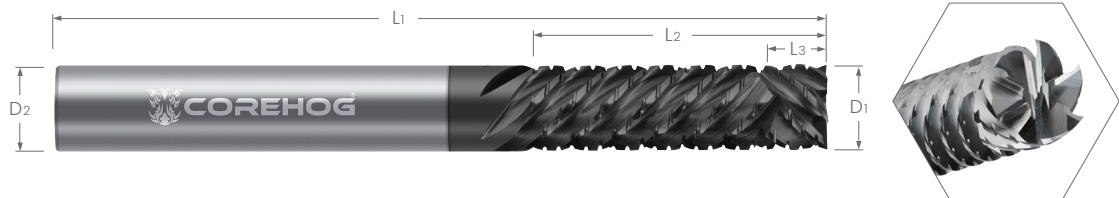
- Designed for machining sandwich panels in one pass
- Engineered to eliminate manual cleanup of parts after machining
- Increases cutting rates by up to 300% compared to conventional cutters
- Optimized for through panel (not blind) trimming and slotting applications
- Design allows for free cutting while maintaining excellent tool life and finishes with minimal flagging and fuzz
- Downcut geometry stabilizes part against fixture and reduces vibration by applying downward pressure
- Provides excellent performance in CFRP, Nomex®, and Kevlar® bonded panels
- Center cutting
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	DLC Coated
D1	L2	D2	L1		Tool #
.2500	1.100	.2500	2.500	8	C15485
.3750	1.250	.3750	2.500	12	C79677
.5000	1.375	.5000	3.000	10	C48179

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
- Center cutting
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA



Diameter D ₁	Length of Cut L ₂	Overlap Center L ₃	Shank Diameter D ₂	Overall Length L ₁	Flutes	DLC Coated Tool #
.2500	1.125	.165	.2500	3.000	4	C43415
.3750	1.250	.251	.3750	3.000	6	C34638
.5000	1.250	.246	.5000	3.000	6	C40122

Rebating Cutters Integrated Shank

- Optimized for removing honeycomb core material between face sheets (skins) on composite sandwich panel
- Designed for increased productivity and MRR when cutting composite honeycomb
- Excellent for rebating outside edges and internal pockets to produce undercut area for edge filling or fasteners
- Geometry reduces tearing, flagging, and fuzz
- Center cutting
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	Uncoated
D ₁	L ₂	D ₂	L ₁		Tool #
.5000	.315	.2362	2.500	10	C26494
.5000	.335	.2362	2.500	10	C27904
.5000	.600	.2362	2.500	10	C89350
13 mm	12.7 mm	6 mm	89 mm	10	C54641*
.7500	.335	.2362	2.500	10	C96274

* End cutting (not center cutting)



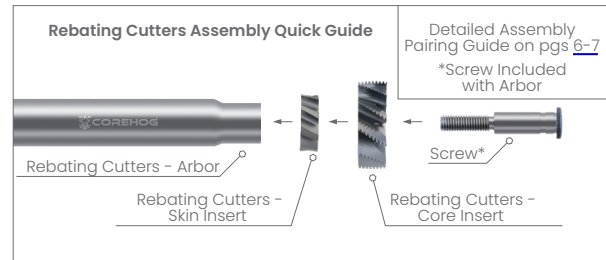
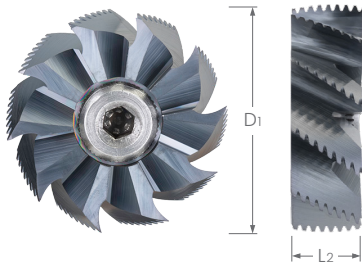
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to Your Distributor or Purchasing Agent**

corehog.com

Rebating Cutters

Core Insert

- Optimized for removing core material between face sheets (skins) on composite sandwich panel
- Design reduces setups, cost per cutter, and provides flexibility with varying sandwich panel configurations
- Excellent for rebating outside edges and internal pockets to produce undercut area for edge filling or fasteners
- Geometry reduces tearing, flagging, and fuzz
- TiAlN coating for high hardness and high temperature resistance
- Solid carbide
- Precision manufactured in the USA
- Must be paired with Rebating Cutter Arbors for use. For proper pairing, reference "Rebating Cutters Assembly Quick Guide"

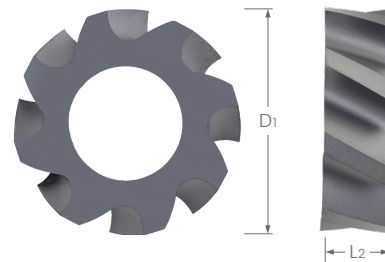
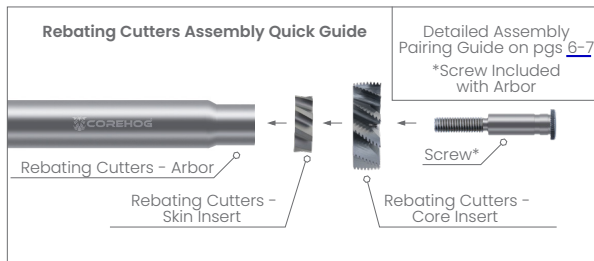


Diameter	Length of Cut	Flutes	Assembly Size Pairing	TiAlN Coated
D ₁	L ₂			Tool #
.8750	.160	10	.875	C18949
.8750	.210	10	.875	C15104
.8750	.250	10	.875	C62536
.8750	.380	10	.875	C18259
.8750	.450	10	.875	C27240
.8750	.475	10	.875	C91505
.8750	.500	10	.875	C74679
1.0000	.312	10	1.000	C95727

Rebating Cutters Skin Insert

- Engineered for trimming top skin 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 improved lubricity and wear resistance on solid carbide body
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates on solid carbide body

- PCD diamond brazed onto solid carbide body for outstanding microhardness and abrasion resistance for significant improvement in tool life
- Must be paired with Rebating Cutter Arbors for use and is recommended to use Rebating Cutter Core Inserts. For proper pairing, reference "Rebating Cutters Assembly Quick Guide"

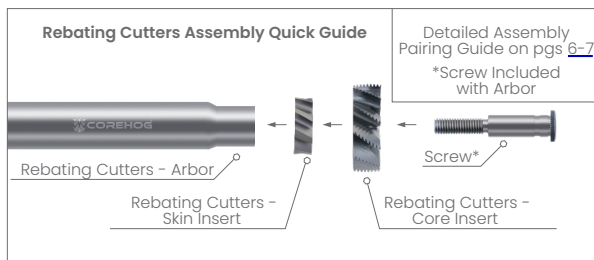


Diameter	Length of Cut	Assembly Size Pairing	DLC Coated	CVD Coated	PCD Diamond
D1	L2		Tool #	Tool #	Tool #
.5000	.150	.875 / 1.000	C32952	C22196	C66357

Rebating Cutters Arbor

- 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

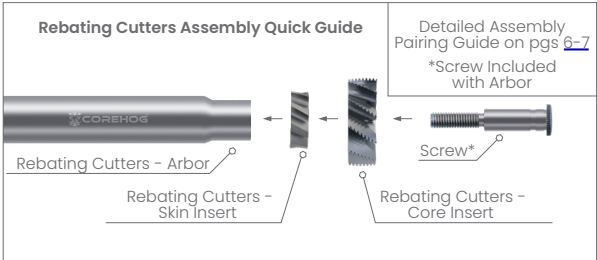
- High speed steel
- Precision manufactured in the USA
- Must be paired with Rebating Cutter Core Inserts for use. For proper pairing, reference "Rebating Cutters Assembly Quick Guide"



Shank Diameter	Overall Length	Assembly Size Pairing	Uncoated
D2	L1		Tool #
.500	3.000	.875 / 1.000	C41516

Rebating Cutters
Replacement Parts

- Offering of replacement screws utilized with Rebating Cutters
- Parts are direct replacements for lost or damaged parts included with purchase of Rebating Cutter Arbors

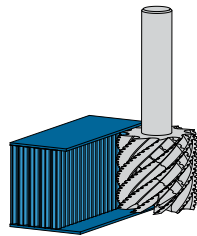


Assembly Size Pairing	Compatibility	Screw
		Tool #
.875 / 1.000	Rebating Cutters	C36965

Rebating Cutters

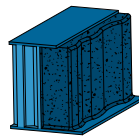
Filled Edge Cutters Finisher

- Designed to finish non-metallic skins and epoxy filled core of custom sized sandwich panels
- 4 flute chipbreaker geometry improves chip management and speeds & feeds, resulting in significant improvements over traditionally used metal working end mills
- Sandwich panel must be rebated and edge filled prior to applying the Filled Edge Finisher
- Solid carbide
- Precision manufactured in the USA



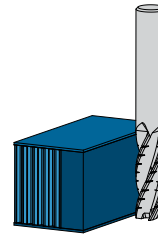
Step 1

Cut Top Skin and Rebate
Core with **Modular
Rebating Cutter**



Step 2

Apply Epoxy Fill



Step 3

Finish to New, Clean
Edge with the
Filled Edge Finisher

Diameter D ₁	Length of Cut L ₂	Corner Radius R	Shank Diameter D ₂	Overall Length L ₁	Flutes	Uncoated Tool #
.2500	.750	.010	.2500	2.500	4	C80949
.2500	1.125	.010	.2500	2.500	4	C25388
.3750	.750	.015	.3750	2.500	4	C16218
.3750	1.250	.015	.3750	3.000	4	C57745
.5000	.750	.020	.5000	3.000	4	C52034
.5000	1.250	.020	.5000	3.000	4	C35928

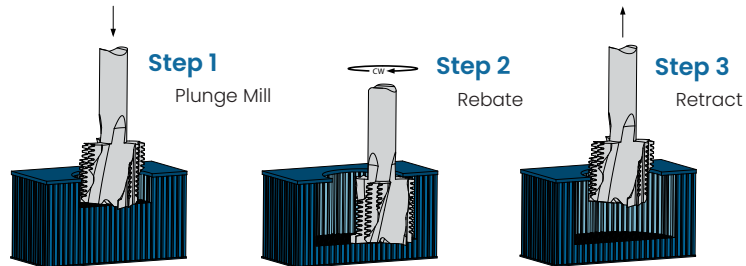
Potted Fastener Cutters

- Designed to cut holes in composite sandwich panels
- Engineered for plunging and rebating blind holes to receive epoxied fasteners in a one-shot operation
- Also commonly used to machine through holes for hidden mechanical and electrical systems
- Geometry finely shreds honeycomb, eliminating the need for manual clean up
- Center cutting
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA

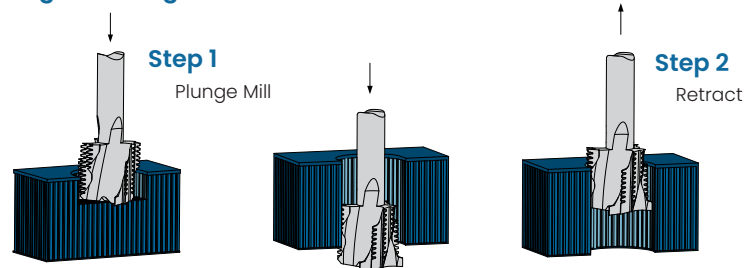


Diameter	Length of Cut	Shank Diameter	Overall Length	DLC Coated
D1	L2	D2	L1	Tool #
.4531	.454	6 mm	89 mm	C51919
.5625	.454	6 mm	89 mm	C57814

Rebated Blind Hole



Plunged Through Hole



NEW

Rebating Cutters for Aluminum Integrated Shank

- Optimized for removing honeycomb core material between face sheets (skins) on aluminum sandwich panel
- Designed for increased productivity and MRR when cutting aluminum honeycomb
- Excellent for rebating outside edges and internal pockets to produce undercut area for edge filling or fasteners
- Geometry reduces tearing and flagging
- Center cutting
- Solid carbide
- Precision manufactured in the USA

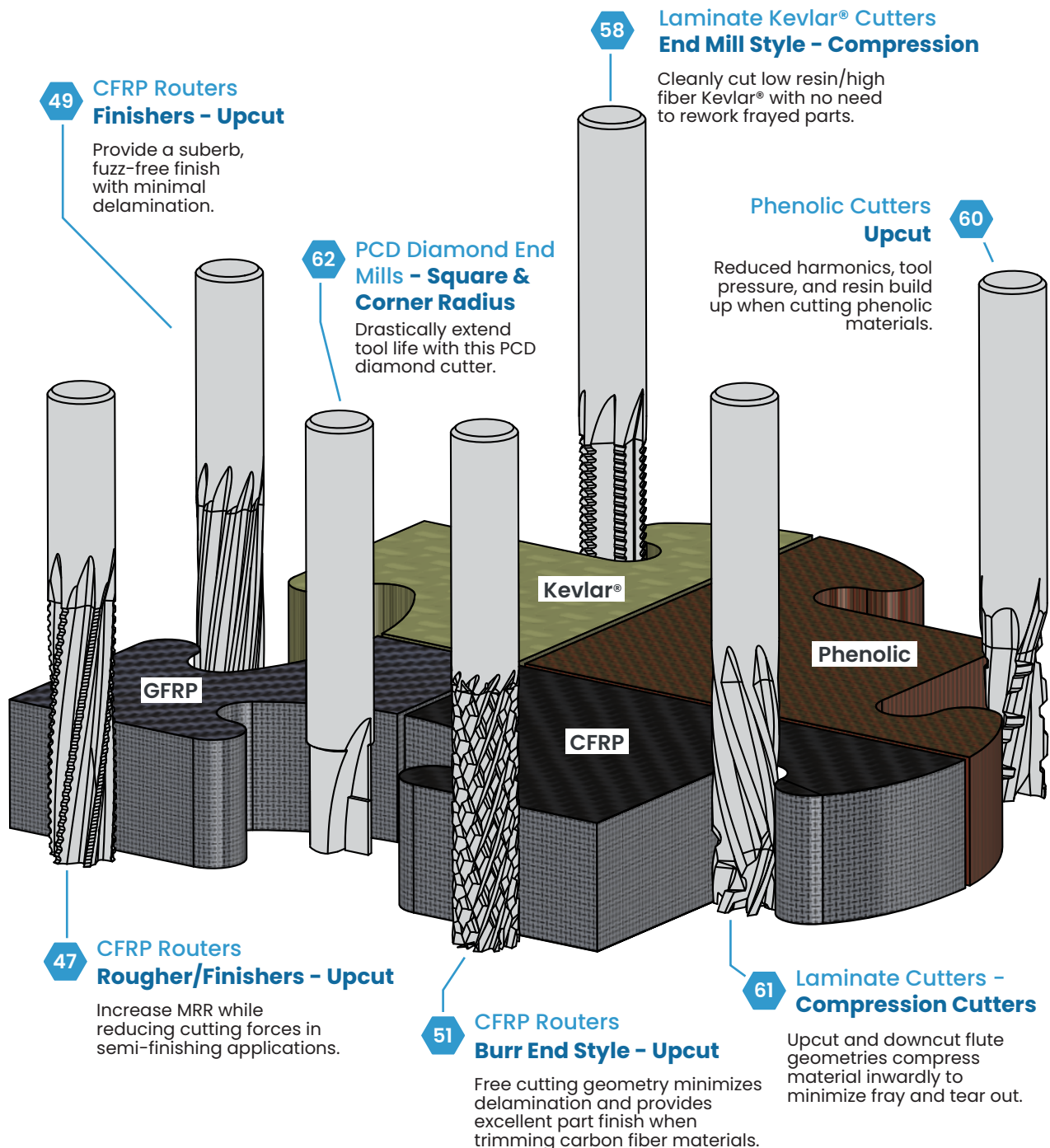


	Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	Uncoated
	D1	L2	D2	L1		Tool #
NEW	.5000	.200	.5000	3.000	6	C98823
NEW	.5000	.335	.5000	3.000	6	C05150
NEW	.5000	.600	.5000	3.000	6	C04534

Tooling for Every Laminate Material

Tackle tough multi-laminate materials with CoreHog's high performance cutters, designed to minimize fraying and deliver superior results.

Potted Fastener Cutters



NEW ITEMS

CFRP Routers
Rougher/Finisher - 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
- Center cutting
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



	Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	DLC Coated	CVD Coated
	D1	L2	D2	L1		Tool #	Tool #
NEW	.1250	.500	.1250	2.000	4	C40974	C47261*
NEW	.1875	.500	.1875	2.000	4	C49920	C05400*
	.2500	.500	.2500	2.500	4		C16430
	.2500	.750	.2500	2.500	4		C66829
NEW	.2500	1.000	.2500	3.000	4	C85742	C90209
NEW	.2500	1.250	.2500	3.000	4	C15905	C45314
	.3750	.750	.3750	3.000	6		C50060
	.3750	1.000	.3750	3.000	6		C13967
	.3750	1.250	.3750	3.000	6		C30440
NEW	.3750	2.000	.3750	4.000	6	C27221	C45627
	.5000	1.000	.5000	3.000	8		C84096
NEW	.5000	1.500	.5000	4.000	8	C05713	C33933

* Thinner CVD layer for balance between wear resistance and edge sharpness

BLOG POST



CFRP Properties & Tool Selection

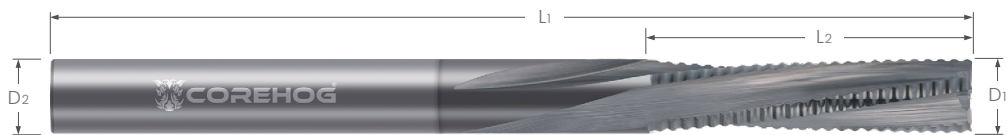
Learn the basics of Carbon Fiber Reinforced Polymers and how to select the right tools for clean, accurate cuts.

harveyperformance.com/in-the-loupe/carbon-fiber-reinforced-polymers-cfrp/

CFRP Routers
Rougher/Finisher – Downcut

NEW

- Unique geometry for increased MRR and reduced cutting forces in roughing applications
- Provides excellent performance when semi-finishing G10 glass, fiberglass, and fiber filled plastic
- Downcut geometry stabilizes part against fixture and reduces vibration by applying downward pressure
- Center cutting
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



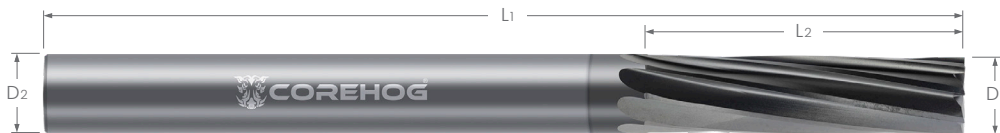
Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	CVD Coated	
D1	L2	D2	L1		Tool #	
.2500	1.000	.2500	3.500	4	C59181	NEW
.3750	1.250	.3750	3.500	6	C07753	NEW
.5000	1.500	.5000	4.000	8	C54525	NEW

NEW
NEW
NEW

NEW ITEMS

CFRP Routers
Finisher - Upcut

- Smooth flute design and shearing action provides fuzz-free finish with minimal delamination
- Provides excellent performance when finishing G10, fiberglass, glass, and fiber filled plastic
- Center cutting
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



	Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Flutes	DLC Coated Tool #	CVD Coated Tool #
NEW	.1250	.500	.1250	2.000	4	C21990	C03407*
NEW	.1875	.500	.1875	2.000	4	C21357	C34598*
NEW	.2500	.500	.2500	2.500	8	C78923	C47721
NEW	.2500	.750	.2500	2.500	8	C69954	C26218
	.2500	1.000	.2500	2.500	8	C23730	C73272
	.3750	1.125	.3750	3.000	8	C68988	C84996
	.5000	1.250	.5000	3.000	8	C70633	C24389
	.5000	1.500	.5000	4.000	8		C67224

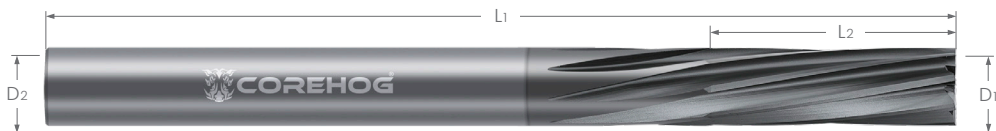
* Thinner CVD layer for balance between wear resistance and edge sharpness

CFRP Routers

CFRP Routers

Finisher – Downcut

- Downcut geometry stabilizes part against fixture and reduces vibration by applying downward pressure
- Smooth flute design and shearing action provides fuzz-free finish with minimal delamination
- Provides excellent performance when finishing G10, fiberglass, carbon fiber, and fiber-reinforced plastics
- Center cutting
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	CVD Coated
D1	L2	D2	L1		Tool #
.2500	1.000	.2500	3.500	8	C05570
.3750	1.125	.3750	3.500	8	C80286
.5000	1.500	.5000	4.000	8	C73546

CFRP Routers Burr End Style – Upcut

- Optimized for trimming CFRP and provides excellent performance in S-glass and other fiberglass materials
- Free cutting geometry minimizes delamination and provides excellent part finish
- Burr style end allows for ramping, not suited for plunge cutting
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



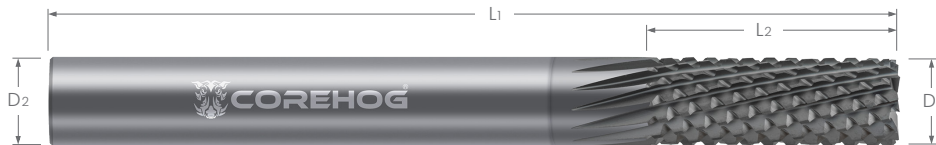
Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Flutes	DLC Coated Tool #	CVD Coated Tool #
.1250	.500	.1250	2.000	8	C29759	C25760*
.1875	.500	.1875	2.000	8		C36060*
.1875	.875	.1875	2.500	8	C47397	C32315*
.2500	.500	.2500	2.500	10		C45297
.2500	.750	.2500	2.500	10	C17487	C10057
.2500	1.000	.2500	3.000	10		C23690
.2500	1.250	.2500	3.000	10		C06749
.3750	.750	.3750	3.000	12		C03540
.3750	1.000	.3750	3.000	12	C22375	C90400
.3750	1.000	.3750	4.000	12		C61465
.3750	1.250	.3750	3.000	12		C20650
.5000	1.000	.5000	3.000	14		C07552
.5000	1.500	.5000	3.000	14	C85755	C85758
.7500	2.000	.7500	4.000	16	C35161	C69497

* Thinner CVD layer for balance between wear resistance and edge sharpness

CFRP Routers

Burr End Style – Downcut

- Optimized for trimming CFRP and provides excellent performance in S-glass and other fiberglass materials
- Free cutting geometry minimizes delamination and provides excellent part finish
- Burr style end allows for ramping, not suited for plunge cutting
- Downcut geometry stabilizes part against fixture and reduces vibration by applying downward pressure
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Flutes	DLC Coated Tool #	CVD Coated Tool #
.1250	.500	.1250	2.500	6		C56161**
.1875	.500	.1875	2.500	8		C98889**
.2500	.750	.2500	2.500	8	C73670*	C95468
.3750	1.000	.3750	3.000	14	C66310	C87132
.5000	1.500	.5000	3.000	14	C20235	C96237
.7500	2.000	.7500	4.000	16	C69001	C97846

* Center cutting

** Thinner CVD layer for balance between wear resistance and edge sharpness

BLOG POST



Machining CFRP?

Learn expert techniques to improve tool life, surface finish, and efficiency when machining Carbon Fiber materials.

harveyperformance.com/in-the-loupe/cfrp-machining-tips/

CFRP Routers End Mill Style – Upcut

- Optimized for trimming CFRP and provides excellent performance in S-glass and other fiberglass materials
- Free cutting geometry minimizes delamination and provides excellent part finish
- End geometry allows for ramping and plunging
- Center cutting
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	DLC Coated	CVD Coated
D1	L2	D2	L1		Tool #	Tool #
.1250	.500	.1250	2.000	8	C62250	C28064*
.1875	.500	.1875	2.000	8		C40362*
.1875	.875	.1875	2.500	8	C91130	C28469*
.2500	.500	.2500	2.500	10		C73054
.2500	.750	.2500	2.500	10	C75739	C30903
.2500	1.000	.2500	3.000	10		C58297
.2500	1.250	.2500	3.000	10		C10872
.3750	.750	.3750	3.000	12		C75416
.3750	1.000	.3750	3.000	12	C18480	C61622
.3750	1.000	.3750	4.000	12		C75207
.3750	1.250	.3750	3.000	12		C34550
.5000	1.000	.5000	3.000	14		C70443
.5000	1.500	.5000	3.000	14	C26546	C58718

* Thinner CVD layer for balance between wear resistance and edge sharpness

CFRP Routers

Drill Point Style – Upcut

- Optimized for trimming CFRP and provides excellent performance in S-glass and other fiberglass materials
- Free cutting geometry minimizes delamination and provides excellent part finish
- End geometry allows for plunging or drilling entry
- Center cutting
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



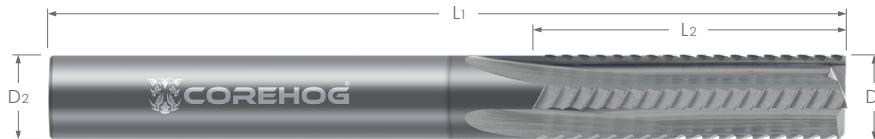
Diameter D1	Length of Cut L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Flutes	DLC Coated Tool #	CVD Coated Tool #
.1250	.500	.038	.1250	2.000	8	C97821	C41492*
.1875	.500	.056	.1875	2.000	8		C75993*
.1875	.875	.056	.1875	2.500	8	C61895	C68364*
.2500	.500	.075	.2500	2.500	10		C42105
.2500	.750	.075	.2500	2.500	10	C52495	C61695
.2500	1.000	.075	.2500	3.000	10		C14707
.2500	1.250	.075	.2500	3.000	10		C44850
.3750	.750	.113	.3750	3.000	12		C69545
.3750	1.000	.113	.3750	3.000	12	C23154	C35013
.3750	1.000	.113	.3750	4.000	12		C69764
.3750	1.250	.113	.3750	3.000	12		C50163
.5000	1.000	.150	.5000	3.000	14		C48313
.5000	1.500	.150	.5000	3.000	14	C90390	C87478

* Thinner CVD layer for balance between wear resistance and edge sharpness

CFRP Routers End Mill Style - Compression

- Compression geometry minimizes delamination and frayed fibers
- End geometry allows for ramping and plunging
- Engineered for high performance in CFRP, GFRP and other fiber-reinforced materials

- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA

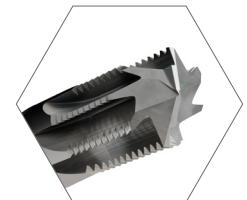


Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Flutes	DLC Coated Tool #	CVD Coated Tool #
.2500	.750	.2500	3.000	4	C67306	C49274
.2500	1.125	.2500	3.000	4	C90664	C00602
.3750	.750	.3750	3.000	6	C77073	C56223
.3750	1.125	.3750	3.000	6	C83474	C13191
.5000	.750	.5000	3.000	8	C05986	C60915
.5000	1.125	.5000	3.000	8	C25648	C46129

CFRP Routers Drill Point Style - Compression

- Compression geometry minimizes delamination and frayed fibers
- Engineered for high performance in CFRP, GFRP, and other fiber-reinforced materials
- End geometry allows for plunging or drilling entry
- Center cutting

- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Diameter D1	Length of Cut L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Flutes	DLC Coated Tool #	CVD Coated Tool #
.2500	.886	.075	.2500	3.000	4	C50700	C95427
.2500	1.261	.075	.2500	3.500	4	C61632	C22944
.3750	1.048	.113	.3750	3.000	6	C46082	C91698
.3750	1.423	.113	.3750	3.500	6	C81224	C64337
.5000	1.180	.150	.5000	3.000	8	C47502	C89254
.5000	1.555	.150	.5000	3.500	8	C93336	C05626

CFRP MAX Routers

Burr End Style - Upcut

- Dynamic flute geometry provides increased material removal rates when machining high-density CFRP and GFRP materials
- Free cutting geometry minimizes delamination
- Burr style end allows for ramping, not suited for plunge cutting
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	CVD Coated
D ₁	L ₂	D ₂	L ₁		Tool #
.1875	.875	.1875	2.500	6	C16639*
.2500	.750	.2500	3.000	8	C59526
.2500	1.000	.2500	3.000	8	C36367
.3750	1.250	.3750	3.000	10	C86072
.5000	1.500	.5000	3.000	12	C60516
.5000	1.500	.5000	4.000	12	C81281

* Thinner CVD layer for balance between wear resistance and edge sharpness

BLOG POST



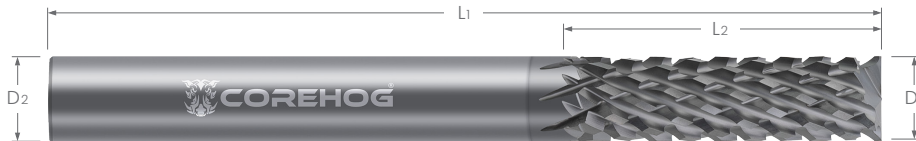
CFRP Properties & Tool Selection

Learn the basics of Carbon Fiber Reinforced Polymers and how to select the right tools for clean, accurate cuts.

harveyperformance.com/in-the-loupe/carbon-fiber-reinforced-polymers-cfrp/

CFRP MAX Routers End Mill Style – Upcut

- Dynamic flute geometry provides increased material removal rates when machining high-density CFRP and GFRP materials
- Free cutting geometry minimizes delamination
- End geometry allows for ramping and plunging
- Center cutting
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA

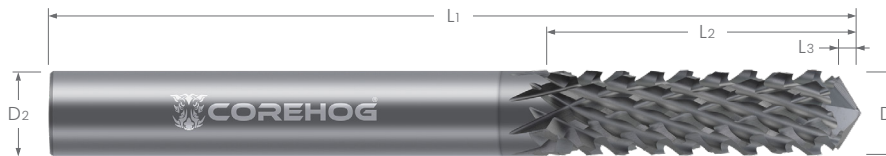


Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Flutes	CVD Coated Tool #
.1875	.875	.1875	2.500	6	C69823*
.2500	.750	.2500	3.000	8	C91247
.2500	1.000	.2500	3.000	8	C49457
.3750	1.250	.3750	3.000	10	C14978
.5000	1.500	.5000	3.000	12	C37776
.5000	1.500	.5000	4.000	12	C39307

* Thinner CVD layer for balance between wear resistance and edge sharpness

CFRP MAX Routers Drill Point Style – Upcut

- Dynamic flute geometry provides increased material removal rates when machining high-density CFRP and GFRP materials
- Free cutting geometry minimizes delamination
- End geometry allows for plunging or drilling entry
- Center cutting
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



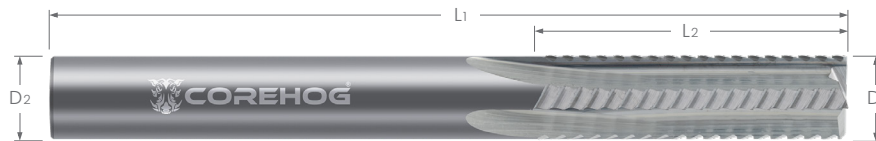
Diameter D1	Length of Cut L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Flutes	CVD Coated Tool #
.1875	.875	.056	.1875	2.500	6	C11591*
.2500	.750	.075	.2500	3.000	8	C76993
.2500	1.000	.075	.2500	3.000	8	C60093
.3750	1.250	.113	.3750	3.000	10	C18724
.5000	1.500	.150	.5000	3.000	12	C18336
.5000	1.500	.150	.5000	4.000	12	C83530

* Thinner CVD layer for balance between wear resistance and edge sharpness

Laminate Kevlar® Cutters

End Mill Style – Compression

- Engineered for high performance in laminated Kevlar®
- Compression geometry and high edge sharpness ensure cleanly cut Kevlar® with minimized fraying
- Cuts low resin/high fiber Kevlar® cleanly, reducing the need for manual rework of frayed parts
- Center cutting
- Solid carbide
- Precision manufactured in the USA

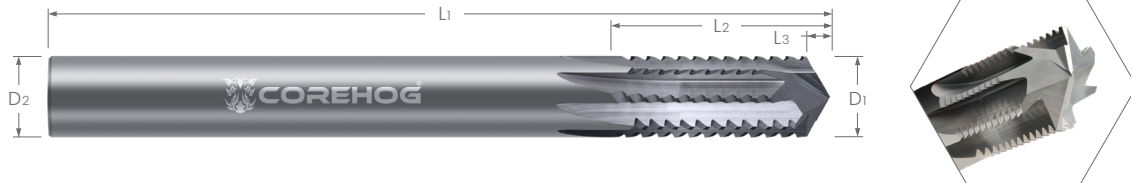


Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	Uncoated
D1	L2	D2	L1		Tool #
.2500	.750	.2500	3.000	4	C88089
.2500	1.125	.2500	3.000	4	C04828
.3750	.750	.3750	3.000	6	C68061
.3750	1.125	.3750	3.000	6	C81318
.5000	.750	.5000	3.000	8	C49244
.5000	1.125	.5000	3.000	8	C43066



Laminate Kevlar® Cutters Drill Point Style - Compression

- Engineered for high performance in laminated Kevlar®
- Compression geometry and high edge sharpness ensure cleanly cut Kevlar® with minimized fraying
- Cuts low resin/high fiber Kevlar® cleanly, reducing the need for manual rework of frayed parts
- End geometry allows for plunging or drilling entry
- Center cutting
- Solid carbide
- Precision manufactured in the USA



Diameter D1	Length of Cut L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Flutes	Uncoated Tool #
.2500	.886	.075	.2500	3.000	4	C80932
.2500	1.261	.075	.2500	3.500	4	C34076
.3750	1.048	.113	.3750	3.000	6	C49757
.3750	1.423	.113	.3750	3.500	6	C59997
.5000	1.180	.150	.5000	3.000	8	C67758
.5000	1.555	.150	.5000	3.500	8	C65114

Phenolic Cutters

Upcut

- Designed to cut phenolic materials typically made of hard, abrasive resin with paper, linen or canvas layers
- Specialized chipbreaker design for reduced harmonics, tool pressure, and resin build up on the cutting edge
- Center cutting
- Solid carbide
- Precision manufactured in the USA

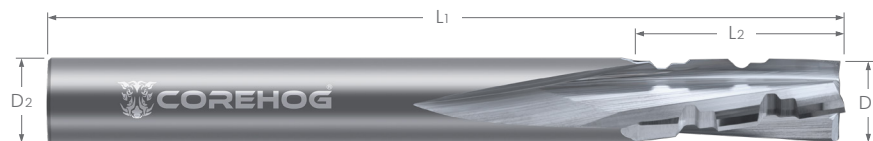


Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Flutes	Uncoated Tool #
.2500	.625	.2500	3.000	3	C70133
.2500	.875	.2500	3.000	3	C48165
.3750	.625	.3750	3.000	3	C00678
.3750	.875	.3750	3.000	3	C21131
.3750	1.125	.3750	3.000	3	C12214
.5000	.625	.5000	3.000	3	C62123
.5000	.875	.5000	3.000	3	C62686
.5000	1.125	.5000	3.000	3	C33621

Phenolic Cutters

Downcut

- Designed to cut phenolic materials typically made of hard, abrasive resin with paper, linen or canvas layers
- Specialized chipbreaker design for reduced harmonics, tool pressure, and resin build up on the cutting edge
- Downcut geometry stabilizes part against fixture and reduces vibration by applying downward pressure
- Center cutting
- Solid carbide
- Precision manufactured in the USA



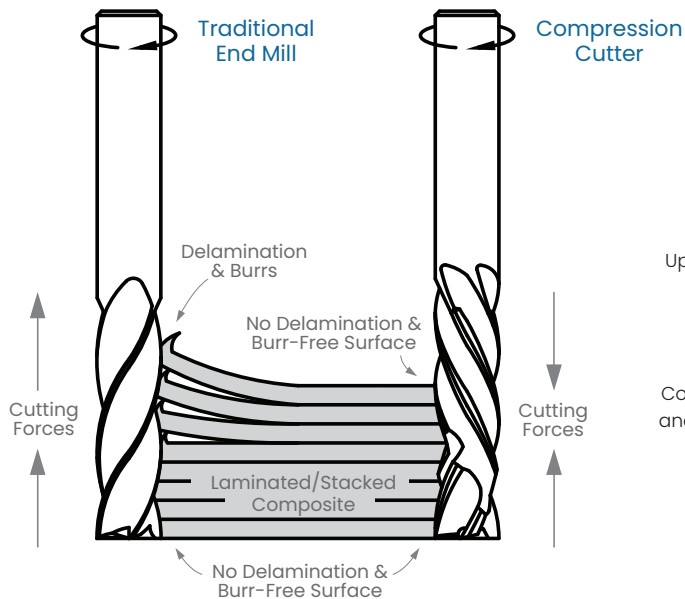
Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Flutes	Uncoated Tool #
.2500	.625	.2500	3.000	3	C88638
.2500	.875	.2500	3.500	3	C56476
.3750	.625	.3750	3.000	3	C82267
.3750	.875	.3750	3.500	3	C09509
.3750	1.125	.3750	3.500	3	C28529
.5000	.625	.5000	3.500	3	C57602
.5000	.875	.5000	3.500	3	C53504
.5000	1.125	.5000	4.000	3	C21144

Laminate Cutters Compression Cutters

- Upcut and downcut flute geometries compress material inwardly to eliminate delamination
- Designed to minimize fray, tear out and manual clean up of parts after machining
- Provides excellent performance in CFRP, GFRP and other composite laminated materials
- Optimized for outside trimming and slotting applications
- Center cutting
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Overlap Center	Shank Diameter	Overall Length	Flutes	DLC Coated	CVD Coated
D1	L2	L3	D2	L1		Tool #	Tool #
.2500	.750	.220	.2500	2.500	6	C02082	C59193
.3750	1.125	.325	.3750	3.000	6	C55789	C20053
.5000	1.125	.430	.5000	3.000	6	C95590	C43905



Traditional End Mills

Upward lifting force causes burrs and delamination at the top of the part.

Compression Cutters

Counteracting cutting forces compress the material and stabilize the workpiece, creating a superior finish on the top and bottom of the part.

PCD Diamond End Mills Square & Corner Radius

NEW ITEMS

- Free cutting geometry minimizes delamination and provides excellent part finish
- Provides excellent performance in abrasive glass fiber, carbon fiber and phenolic materials
- Additionally well suited for graphite, stacked composite materials, green ceramics and green carbide
- Center cutting
- PCD diamond brazed onto solid carbide body for outstanding microhardness and abrasion resistance for significant improvement in tool life



Diameter	Length of Cut	Overall Reach	Corner Radius	Shank Diameter	Overall Length	Flutes	PCD Diamond	
D1	L2	L3	R	D2	L1		Tool #	
.0930	.188	.375	Sharp	.1250	1.500	1	C65242	NEW
.1250	.250	.500	Sharp	.1250	1.500	1	C48631	NEW
.1250	.250	.500	.010	.1250	1.500	1	C74984	
.1875	.250	.625	Sharp	.1875	2.000	2	C41422	NEW
.1875	.250	.625	.010	.1875	2.000	2	C79979	
.2500	.250	.750	Sharp	.2500	2.500	2	C34103	NEW
.2500	.250	.750	.010	.2500	2.500	2	C79748	
.2500	.250	.750	.030	.2500	2.500	2	C93363	NEW
.3750	.250	.937	Sharp	.3750	2.500	2	C02331	NEW
.3750	.250	.937	.010	.3750	2.500	2	C82527	
.3750	.250	.937	.030	.3750	2.500	2	C09614	NEW
.5000	.250	1.000	Sharp	.5000	3.000	2	C88990	NEW
.5000	.250	1.000	.010	.5000	3.000	2	C12470	
.5000	.250	1.000	.030	.5000	3.000	2	C68926	NEW
.7500	.375	1.125	Sharp	.7500	4.000	2	C91370	NEW
.7500	.375	1.125	.010	.7500	4.000	2	C31980	
1.0000	.500	1.250	.010	1.0000	4.000	2	C99963	

PCD Diamond End Mills

Ball

- Free cutting geometry minimizes delamination and provides excellent part finish
- Provides excellent performance in abrasive glass fiber, carbon fiber and phenolic materials
- Additionally well suited for graphite, stacked composite materials, green ceramics and green carbide
- Provides excellent performance in finishing applications of complex surfaces and shapes in difficult to machine materials
- Center cutting
- PCD diamond brazed onto solid carbide body for outstanding microhardness and abrasion resistance for significant improvement in tool life



Diameter	Length of Cut	Overall Reach	Shank Diameter	Overall Length	Flutes	PCD Diamond
D1	L2	L3	D2	L1		Tool #
.1250	.250	.500	.1250	1.500	1	C66271
.1875	.250	.625	.1875	2.000	2	C64310
.2500	.312	.750	.2500	2.500	2	C27976
.3750	.437	.937	.3750	2.500	2	C30325
.5000	.500	1.000	.5000	3.000	2	C90424
.7500	.625	1.125	.7500	4.000	2	C94917
1.0000	.750	1.250	1.0000	4.000	2	C98151

Miniature Diamond Coated End Mills

Square

- Provides excellent performance in miniature milling applications for a wide range of composites
- Center cutting
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Flutes	DLC Coated	CVD Coated
D1	L2	D2	L1		Tool #	Tool #
.0150	.045	.1250	1.500	4	C63366	
.0200	.060	.1250	1.500	4	C52247	
.0310	.093	.1250	1.500	4	C26094	C97916
.0470	.141	.1250	1.500	4	C06242	C49003
.0620	.186	.1250	1.500	4	C22672	C35367
.0620	.312	.1250	2.500	4	C89613	C69738
.0780	.234	.1250	1.500	4	C00480	C39774
.0780	.406	.1250	2.500	4	C26466	C76058
.0930	.279	.1250	1.500	4	C83205	C39936
.0930	.500	.1250	2.500	4	C95783	C46161
.1250	.375	.1250	1.500	4	C28088	C83369
.1250	.625	.1250	2.500	4	C92546	C18812
.1875	.570	.1875	2.000	4	C46488	C30238
.1875	1.000	.1875	3.000	4	C22427	C21588
.2500	.750	.2500	2.500	4	C16766	C83477
.2500	1.250	.2500	4.000	4	C24339	C76242

Miniature Diamond Coated End Mills

Ball

- Provides excellent performance in miniature milling applications for a wide range of composites
- Center cutting
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Flutes	DLC Coated Tool #	CVD Coated Tool #
.0620	.186	.1250	1.500	4	C74026	C57148
.0780	.234	.1250	1.500	4	C89179	C50223
.0930	.279	.1250	1.500	4	C16327	C00358
.1250	.375	.1250	1.500	4	C38062	C69322
.1875	.570	.1875	2.000	4	C53612	C19979
.2500	.750	.2500	2.500	4	C26137	C92633



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Diamond Cut Routers

Burr End 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
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA



Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Flutes	Uncoated Tool #	DLC Coated Tool #
.2500	1.250	.2500	3.000	7	C70016	C36346
.2500	1.750	.2500	4.000	7	C28344	C88891
.3125	.750	.3125	2.500	9	C84729	C21464
.3750	1.250	.3750	3.000	10	C67528	C54430
.5000	1.250	.5000	3.000	17	C57182	C63031

Diamond Cut Routers

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
- Standard cut profile
- Center cutting
- DLC coating for improved lubricity and wear resistance
- Thin CVD for improved performance that balances edge sharpness with coating thickness and abrasion resistance
- Solid carbide
- Precision manufactured in the USA



Diameter D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Flutes	Uncoated Tool #	DLC Coated Tool #	CVD Coated* Tool #
.1250	.500	.1250	2.000	7	C75116		C29591
.1875	.750	.1875	2.500	7	C69483		C10109
.2500	1.250	.2500	3.000	7	C87510	C19396	C83965
.2500	1.750	.2500	4.000	7	C72576	C75176	
.3125	.750	.3125	2.500	9	C50116	C11470	
.3750	1.250	.3750	3.000	10	C90419	C89565	C63707
.5000	1.250	.5000	3.000	17	C48175	C71414	C90180

*Thin CVD

Diamond Cut Routers Drill Point 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
- 135° drill point
- Center cutting
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Tip Length	Shank Diameter	Overall Length	Flutes	Uncoated	DLC Coated
D1	L2	L3	D2	L1		Tool #	Tool #
.2500	1.250	.052	.2500	3.000	7	C17331	C39339
.2500	1.750	.052	.2500	4.000	7	C80150	C72397
.3125	.750	.065	.3125	2.500	9	C85678	C63083
.3750	1.250	.078	.3750	3.000	10	C36362	C30807
.5000	1.250	.104	.5000	3.000	17	C74177	C69523



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	Length of Cut	Shank Diameter	Overall Length	Uncoated
D1	L2	D2	L1	Tool #
.0625	.250	.2500	2.000	C13042*
.0937	.375	.2500	2.000	C83223*
.1250	.250	.2500	2.000	C42235*
.1250	.500	.2500	2.000	C36039*
.1875	.625	.2500	2.000	C91695*
.2500	.750	.2500	2.500	C35749
.2500	1.250	.2500	3.000	C55226
.3750	1.125	.3750	2.500	C66407
.5000	1.500	.5000	3.000	C16321

* Tools are ground on oversized, router-style shank

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



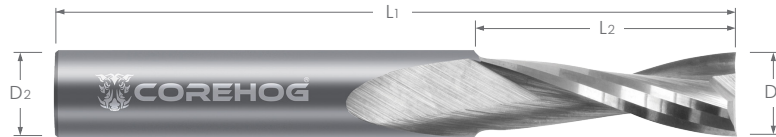
Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Uncoated
				Tool #
.1250	.500	.2500	2.000	C96764*
.1875	.625	.2500	2.000	C23057*
.2500	.750	.2500	2.500	C33929
.3750	1.125	.3750	3.000	C16847
.5000	1.500	.5000	4.000	C47777

* Tools are ground on oversized, router-style shank

Plastic Cutters – 2 Flute

Square – Upcut

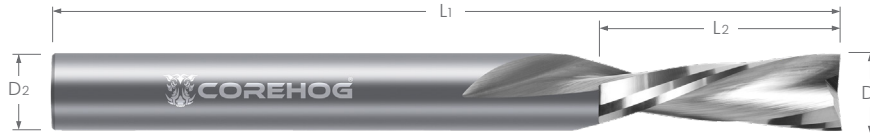
- Engineered with high rake, high relief, and large flute valley for maximum chip removal
- 2 flute design for improved rigidity, less deflection, and maximum tool life
- Center cutting
- Polished flute face
- Solid carbide
- Precision manufactured in the USA



Diameter	Length of Cut	Shank Diameter	Overall Length	Uncoated
D1	L2	D2	L1	Tool #
.0625	.187	.1250	1.500	C34914
.0625	.312	.1250	2.000	C03157
.0937	.281	.1250	1.500	C81709
.0937	.500	.1250	2.000	C61763
.1250	.375	.1250	1.500	C82174
.1250	.625	.1250	2.000	C08376
.1875	.562	.1875	2.000	C60498
.1875	1.000	.1875	3.000	C06917
.2500	.750	.2500	2.500	C76571
.2500	1.250	.2500	3.000	C87976
.3750	1.125	.3750	3.000	C20380
.5000	1.500	.5000	4.000	C34254

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

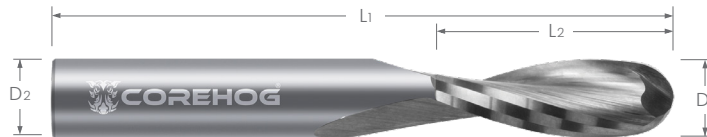


Diameter	Length of Cut	Shank Diameter	Overall Length	Uncoated
D1	L2	D2	L1	Tool #
.0625	.187	.1250	1.500	C68945
.0625	.312	.1250	2.000	C86853
.0937	.281	.1250	1.500	C12339
.0937	.500	.1250	2.000	C95154
.1250	.375	.1250	1.500	C20225
.1250	.625	.1250	2.000	C41305
.1875	.562	.1875	2.000	C52478
.1875	1.000	.1875	3.000	C61223
.2500	.750	.2500	2.500	C71092
.2500	1.250	.2500	3.000	C53010
.3750	1.125	.3750	3.000	C90317
.5000	1.500	.5000	4.000	C31660

Plastic Cutters – 2 Flute

Ball – Upcut

- 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 D ₁	Length of Cut L ₂	Shank Diameter D ₂	Overall Length L ₁	Uncoated Tool #
.0625	.187	.1250	1.500	C75231
.0937	.281	.1250	1.500	C25103
.1250	.375	.1250	1.500	C13644
.1875	.562	.1875	2.000	C82706
.2500	.750	.2500	2.500	C19663
.3750	1.125	.3750	3.000	C58070
.5000	1.500	.5000	4.000	C50149

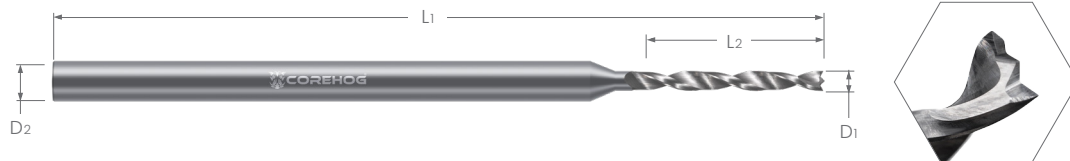


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Brad Point Drills

- Provides outstanding performance when drilling Kevlar® composite materials
- Specialized geometry scores OD of hole to minimize fraying and tear out commonly seen in Kevlar® materials
- Uncoated for high edge sharpness and cleaner holes
- Solid carbide
- Precision manufactured in the USA



Size	Diameter D1	Length of Flute L2	Shank Diameter D2	Overall Length L1	Uncoated Tool #
1/16	.0625	.5150	.1250	2.000	C16590
2 mm	.0787	.6400	.1250	2.500	C05157
#40	.0980	.7650	.1250	2.500	C97654
2.5 mm	.0984	.7650	.1250	2.500	C39380
#38	.1015	.7650	.1250	2.500	C26005
1/8	.1250	1.0150	.1250	2.500	C44518
#30	.1285	1.0310	.1875	3.000	C39347
#29	.1360	1.0310	.1875	3.000	C60966
11/64	.1718	1.0310	.1875	3.000	C76734
#16	.1770	1.0310	.1875	3.000	C09019
3/16	.1875	1.0310	.1875	3.000	C68822
#11	.1910	1.0310	.2500	3.000	C87116
#10	.1935	1.0310	.2500	3.000	C84873
7/32	.2187	1.0310	.2500	3.000	C29147
15/64	.2343	1.0310	.2500	3.000	C27236
1/4	.2500	1.0310	.2500	3.000	C06019
9/32	.2812	1.0310	.3125	3.000	C02276
5/16	.3125	1.0310	.3125	3.000	C00395
3/8	.3750	1.0310	.3750	3.000	C27306

Miniature Drills

- Provides excellent performance in miniature drilling applications for a wide range of composite and plastic materials
- 130° drill point
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in India

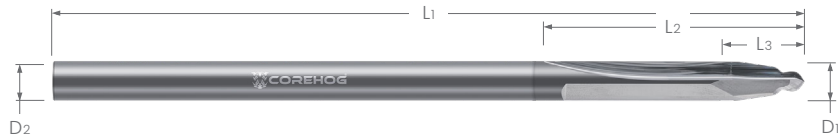


Size	Diameter D1	Length of Flute L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Uncoated Tool #	DLC Coated Tool #
#76	.0200	.2750	.005	.1250	1.500	C85817*	C41681*
#74	.0225	.2750	.005	.1250	1.500	C87905	C58478
#72	.0250	.2750	.006	.1250	1.500	C72330	C56309
#70	.0280	.3350	.007	.1250	1.500	C20630	C96445
1/32	.0312	.3950	.007	.1250	1.500	C05422	C06401
#65	.0350	.3950	.008	.1250	1.500	C22566	C33157
#60	.0400	.3950	.009	.1250	1.500	C32841	C22144
3/64	.0469	.3950	.011	.1250	1.500	C41888	C01618
#55	.0520	.4130	.012	.1250	1.500	C97738	C88321
#54	.0550	.4130	.013	.1250	1.500	C02137	C67626
1.5 mm	.0591	.4130	.014	.1250	1.500	C86584	C14457
1/16	.0625	.4130	.015	.1250	1.500	C53314	C93976
#50	.0700	.4130	.016	.1250	1.500	C46190	C05271
5/64	.0781	.4130	.018	.1250	1.500	C45404	C44365
2 mm	.0787	.4130	.018	.1250	1.500	C11251	C32612
#46	.0810	.4130	.019	.1250	1.500	C54166	C06878
#43	.0890	.4130	.021	.1250	1.500	C98529	C32257
#40	.0980	.4130	.023	.1250	1.500	C48269	C63568
7/64	.1094	.4130	.026	.1250	1.500	C89212	C73420
3 mm	.1181	.4130	.028	.1250	1.500	C08339	C87494
1/8	.1250	.4130	.029	.1250	1.500	C76772	C60368

* Tool has an intermediate neck diameter of .028 and a total overhang from shank of .413

CFRP Drills

- Provides superior results in CFRP while delivering excellent performance in other laminate and stack composite materials
- Specially engineered geometry allows for outstanding tool life, finish, and repeatability while eliminating edge swelling, tear out, and delamination
- Designed with high strength and rigidity while maintaining tight tolerance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Size	Diameter D1	Length of Flute L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Uncoated	CVD Coated
						Tool #	Tool #
#40	.0980	1.000	.173	.0980	4.000	C11245	C67898*
#40	.0980	1.000	.173	.0980	6.000	C46975	C41878*
1/8	.1250	1.000	.220	.1250	4.000	C01180	C58231*
1/8	.1250	1.000	.220	.1250	6.000	C52197	C68811*
#30	.1285	1.000	.226	.1285	4.000	C60769	C39368*
#30	.1285	1.000	.226	.1285	6.000	C33597	C81180*
9/64	.1406	1.000	.248	.1406	4.000	C97193	C53764*
9/64	.1406	1.000	.248	.1406	6.000	C26100	C27434*
5/32	.1563	1.000	.275	.1563	4.000	C37194	C19315*
5/32	.1563	1.000	.275	.1563	6.000	C20504	C18327*
#21	.1590	1.000	.280	.1590	4.000	C75450	C13983*
#21	.1590	1.000	.280	.1590	6.000	C86783	C23806*
#20	.1610	1.000	.283	.1610	4.000	C95531	C98977*
#20	.1610	1.000	.283	.1610	6.000	C78335	C16047*
11/64	.1719	1.000	.303	.1719	4.000	C51345	C64410*
11/64	.1719	1.000	.303	.1719	6.000	C58220	C28143*
3/16	.1875	1.000	.330	.1875	4.000	C35352	C05892*
3/16	.1875	1.000	.330	.1875	6.000	C32027	C98058*
#11	.1910	1.000	.336	.1910	4.000	C16088	C35710*
#11	.1910	1.000	.336	.1910	6.000	C22738	C35282*
#10	.1935	1.000	.341	.1935	4.000	C84675	C14987*
#10	.1935	1.000	.341	.1935	6.000	C16073	C14774*
#8	.1990	1.000	.350	.1990	4.000	C65656	C09810*
#8	.1990	1.000	.350	.1990	6.000	C48018	C57354*

* Thinner CVD layer for balance between wear resistance and edge sharpness

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CFRP Drills (cont.)

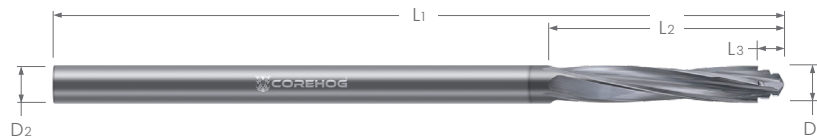
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Size	Diameter D ₁	Length of Flute L ₂	Tip Length L ₃	Shank Diameter D ₂	Overall Length L ₁	Uncoated	CVD Coated
						Tool #	Tool #
#7	.2010	1.000	.354	.2010	4.000	C23268	C39173*
#7	.2010	1.000	.354	.2010	6.000	C10990	C58866*
13/64	.2031	1.000	.358	.2031	4.000	C68347	C47335*
13/64	.2031	1.000	.358	.2031	6.000	C33639	C09621*
7/32	.2188	1.000	.385	.2188	4.000	C35701	C21029*
7/32	.2188	1.000	.385	.2188	6.000	C37475	C94537*
#1	.2280	1.000	.401	.2280	4.000	C37392	C61021*
#1	.2280	1.000	.401	.2280	6.000	C06658	C77600*
A	.2340	1.000	.412	.2340	4.000	C86422	C49745*
A	.2340	1.000	.412	.2340	6.000	C34097	C72711*
B	.2380	1.000	.419	.2380	4.000	C40740	C28404*
B	.2380	1.000	.419	.2380	6.000	C04871	C39234*
1/4	.2500	1.000	.440	.2500	4.000	C80092	C77064
1/4	.2500	1.000	.440	.2500	6.000	C27026	C51001
5/16	.3125	1.000	.550	.3125	4.000	C89859	C72275
5/16	.3125	1.000	.550	.3125	6.000	C44598	C05701

* Thinner CVD layer for balance between wear resistance and edge sharpness

Helical Step Drills

- Proprietary multi-stepped nose design spreads out load, eliminating delamination and 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
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Size	Diameter D1	Length of Flute L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Uncoated	DLC Coated	CVD Coated
						Tool #	Tool #	Tool #
#40	.0980	1.500	.074	.0980	4.000	C85367	C35505	C84924*
#40	.0980	1.500	.074	.0980	6.000	C77209	C68838	C52261*
1/8	.1250	1.500	.094	.1250	4.000	C87870	C71383	C34308*
1/8	.1250	1.500	.094	.1250	6.000	C40706	C04164	C00541*
#30	.1285	1.500	.096	.1285	4.000	C59188	C29108	C16987*
#30	.1285	1.500	.096	.1285	6.000	C50598	C23168	C97425*
9/64	.1406	1.500	.106	.1406	4.000	C88163	C79132	C14713*
9/64	.1406	1.500	.106	.1406	6.000	C56849	C56631	C28071*
5/32	.1563	1.500	.117	.1563	4.000	C13592	C86061	C36364*
5/32	.1563	1.500	.117	.1563	6.000	C49695	C33360	C30261*
#21	.1590	1.500	.119	.1590	4.000	C95375	C57044	C14563*
#21	.1590	1.500	.119	.1590	6.000	C88311	C02440	C44869*
#20	.1610	1.500	.121	.1610	4.000	C58644	C82592	C15061*
#20	.1610	1.500	.121	.1610	6.000	C55115	C10058	C05632*
11/64	.1719	1.500	.129	.1719	4.000	C14086	C89620	C81780*
11/64	.1719	1.500	.129	.1719	6.000	C76710	C14717	C62513*
3/16	.1875	1.500	.141	.1875	4.000	C35105	C74364	C93425*
3/16	.1875	1.500	.141	.1875	6.000	C73884	C54708	C09271*
#11	.1910	1.500	.143	.1910	4.000	C11419	C05686	C81070*
#11	.1910	1.500	.143	.1910	6.000	C46027	C33100	C62229*
#10	.1935	1.500	.145	.1935	4.000	C63230	C27985	C57449*
#10	.1935	1.500	.145	.1935	6.000	C37453	C41218	C66309*
#8	.1990	1.500	.149	.1990	4.000	C58002	C70286	C50121*
#8	.1990	1.500	.149	.1990	6.000	C32738	C97926	C64046*

* Thinner CVD layer for balance between wear resistance and edge sharpness

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Helical Step Drills (cont.)

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Size	Diameter D ₁	Length of Flute L ₂	Tip Length L ₃	Shank Diameter D ₂	Overall Length L ₁	Uncoated	DLC Coated	CVD Coated
						Tool #	Tool #	Tool #
#7	.2010	1.500	.151	.2010	4.000	C58438	C69125	C14952*
#7	.2010	1.500	.151	.2010	6.000	C47246	C55121	C72761*
13/64	.2031	1.500	.152	.2031	4.000	C87145	C30409	C32829*
13/64	.2031	1.500	.152	.2031	6.000	C60809	C38883	C71076*
7/32	.2188	1.500	.164	.2188	4.000	C69648	C27541	C06945*
7/32	.2188	1.500	.164	.2188	6.000	C17496	C90585	C69838*
#1	.2280	1.500	.171	.2280	4.000	C54043	C65411	C41343*
#1	.2280	1.500	.171	.2280	6.000	C90546	C13267	C53781*
A	.2340	1.500	.176	.2340	4.000	C91646	C69394	C94288*
A	.2340	1.500	.176	.2340	6.000	C88811	C09610	C16381*
B	.2380	1.500	.179	.2380	4.000	C11985	C41108	C27528*
B	.2380	1.500	.179	.2380	6.000	C54115	C47986	C74547*
1/4	.2500	1.500	.188	.2500	4.000	C72507	C27827	C09674
1/4	.2500	1.500	.188	.2500	6.000	C45128	C09557	C00081
5/16	.3125	1.500	.234	.3125	4.000	C12511	C06939	C39254
3/8	.3750	1.500	.281	.3750	4.000	C96922	C88285	C22007

* Thinner CVD layer for balance between wear resistance and edge sharpness

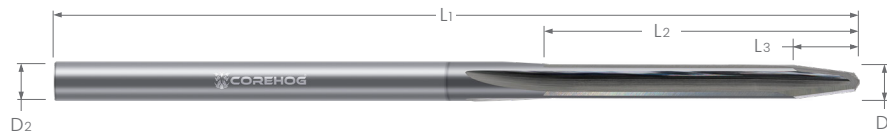


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Tapered Drill Reamers

- Multi-purpose tooling can be used to drill and ream in a one-shot operation
- 4 flute design and special “long nose” geometry greatly reduces delamination by avoiding grabbing or pushing on plies
- Engineered to produce tight toleranced holes in composite laminates
- Suitable for use in a wide range of composites and plastics
- For use in both hand and CNC operations
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Size	Diameter D1	Length of Flute L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Flutes	Uncoated	DLC Coated	CVD Coated
							Tool #	Tool #	Tool #
#40	.0980	1.500	.169	.0980	4.000	4	C27354	C94193	C21169*
#40	.0980	1.500	.169	.0980	6.000	4	C31427	C06810	C46000*
1/8	.1250	1.500	.215	.1250	4.000	4	C20256	C59607	C88652*
1/8	.1250	1.500	.215	.1250	6.000	4	C43574	C00635	C73796*
#30	.1285	1.500	.221	.1285	4.000	4	C41022	C89244	C75524*
#30	.1285	1.500	.221	.1285	6.000	4	C15769	C18644	C98673*
9/64	.1406	1.500	.242	.1406	4.000	4	C32825	C11014	C99631*
9/64	.1406	1.500	.242	.1406	6.000	4	C22379	C65718	C98135*
5/32	.1563	1.500	.269	.1563	4.000	4	C57905	C07672	C75652*
5/32	.1563	1.500	.269	.1563	6.000	4	C80152	C82390	C21504*
#21	.1590	1.500	.274	.1590	4.000	4	C10752	C30152	C12791*
#21	.1590	1.500	.274	.1590	6.000	4	C69671	C37011	C52064*
#20	.1610	1.500	.277	.1610	4.000	4	C33113	C94372	C01097*
#20	.1610	1.500	.277	.1610	6.000	4	C37935	C59795	C12998*
11/64	.1719	1.500	.296	.1719	4.000	4	C35875	C64976	C35599*
11/64	.1719	1.500	.296	.1719	6.000	4	C31369	C52684	C17666*
3/16	.1875	1.500	.323	.1875	4.000	4	C97097	C69813	C56354*
3/16	.1875	1.500	.323	.1875	6.000	4	C84609	C49028	C81188*
#11	.1910	1.500	.329	.1910	4.000	4	C42964	C30345	C30767*
#11	.1910	1.500	.329	.1910	6.000	4	C28656	C24655	C20580*
#10	.1935	1.500	.333	.1935	4.000	4	C31983	C49894	C54556*
#10	.1935	1.500	.333	.1935	6.000	4	C41707	C14337	C91576*
#8	.1990	1.500	.343	.1990	4.000	4	C80447	C14907	C14190*
#8	.1990	1.500	.343	.1990	6.000	4	C41628	C83244	C15071*

* Thinner CVD layer for balance between wear resistance and edge sharpness

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Tapered Drill Reamers (cont.)

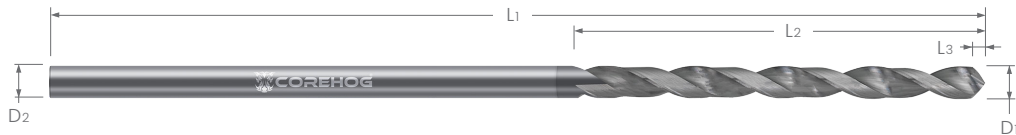
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Size	Diameter D ₁	Length of Flute L ₂	Tip Length L ₃	Shank Diameter D ₂	Overall Length L ₁	Flutes	Uncoated	DLC Coated	CVD Coated
							Tool #	Tool #	Tool #
#7	.2010	1.500	.346	.2010	4.000	4	C97319	C03844	C01806*
#7	.2010	1.500	.346	.2010	6.000	4	C23092	C69579	C47929*
13/64	.2031	1.500	.350	.2031	4.000	4	C82804	C60542	C49044*
13/64	.2031	1.500	.350	.2031	6.000	4	C46915	C73665	C77955*
7/32	.2188	1.500	.377	.2188	4.000	4	C54150	C78337	C64938*
7/32	.2188	1.500	.377	.2188	6.000	4	C21539	C78353	C86630*
#1	.2280	1.500	.393	.2280	4.000	4	C17043	C95839	C62355*
#1	.2280	1.500	.393	.2280	6.000	4	C66989	C24384	C78087*
A	.2340	1.500	.403	.2340	4.000	4	C68577	C48309	C91583*
A	.2340	1.500	.403	.2340	6.000	4	C69742	C94501	C10645*
B	.2380	1.500	.410	.2380	4.000	4	C54695	C02381	C79821*
B	.2380	1.500	.410	.2380	6.000	4	C31256	C38859	C19172*
1/4	.2500	1.500	.431	.2500	4.000	4	C43238	C14527	C67534
1/4	.2500	1.500	.431	.2500	6.000	4	C52627	C22303	C24072
5/16	.3125	1.500	.538	.3125	4.000	4	C30712	C44826	C65343
3/8	.3750	1.500	.646	.3750	4.000	4	C10980	C53220	C74950

* Thinner CVD layer for balance between wear resistance and edge sharpness

8 Facet Drills

- 8 Facet design efficiently spreads out tool pressure throughout the cut, reducing delamination on exit
- High strength design maximizes MRR
- Suitable for use in a wide range of composites and plastics
- For use in hand and CNC operations
- DLC coating for improved lubricity and wear resistance
- True crystalline CVD diamond coating for drastically improved hardness for outstanding abrasion resistance and higher feed rates
- Solid carbide
- Precision manufactured in the USA



Size	Diameter D1	Length of Flute L2	Tip Length L3	Shank Diameter D2	Overall Length L1	Uncoated	DLC Coated	CVD Coated
						Tool #	Tool #	Tool #
#40	.0980	1.500	.039	.0980	4.000	C14893	C25857	C47552*
#40	.0980	1.500	.039	.0980	6.000	C96799	C62900	C76268*
1/8	.1250	1.500	.050	.1250	4.000	C97275	C25247	C30894*
1/8	.1250	1.500	.050	.1250	6.000	C58920	C72221	C24995*
#30	.1285	1.500	.051	.1285	4.000	C17912	C14416	C27340*
#30	.1285	1.500	.051	.1285	6.000	C51710	C00455	C84730*
9/64	.1406	1.500	.056	.1406	4.000	C54951	C20409	C39105*
9/64	.1406	1.500	.056	.1406	6.000	C64074	C51622	C45266*
5/32	.1563	1.500	.063	.1563	4.000	C47378	C25142	C28957*
5/32	.1563	1.500	.063	.1563	6.000	C30144	C54798	C35544*
#21	.1590	1.500	.064	.1590	4.000	C54592	C31994	C77738*
#21	.1590	1.500	.064	.1590	6.000	C84101	C49679	C41803*
#20	.1610	1.500	.064	.1610	4.000	C48046	C66738	C77000*
#20	.1610	1.500	.064	.1610	6.000	C53804	C93520	C16433*
11/64	.1719	1.500	.069	.1719	4.000	C82255	C53163	C41817*
11/64	.1719	1.500	.069	.1719	6.000	C13482	C60041	C31463*
3/16	.1875	1.500	.075	.1875	4.000	C41314	C88822	C55237*
3/16	.1875	1.500	.075	.1875	6.000	C80427	C97047	C26496*
#11	.1910	1.500	.076	.1910	4.000	C90406	C35236	C74670*
#11	.1910	1.500	.076	.1910	6.000	C38899	C37125	C85169*
#10	.1935	1.500	.077	.1935	4.000	C63605	C57439	C22504*
#10	.1935	1.500	.077	.1935	6.000	C14935	C60241	C20727*
#8	.1990	1.500	.080	.1990	4.000	C88736	C78564	C14145*
#8	.1990	1.500	.080	.1990	6.000	C37663	C52858	C67302*

* Thinner CVD layer for balance between wear resistance and edge sharpness

continued on next page

see page 83 for 8 Facet Drills – PCD

8 Facet Drills (cont.)

continued from previous page

Size	Diameter	Length of Flute	Tip Length	Shank Diameter	Overall Length	Uncoated	DLC Coated	CVD Coated
	D ₁	L ₂	L ₃	D ₂	L ₁	Tool #	Tool #	Tool #
#7	.2010	1.500	.080	.2010	4.000	C16115	C37267	C54733*
#7	.2010	1.500	.080	.2010	6.000	C23344	C41014	C49739*
13/64	.2031	1.500	.081	.2031	4.000	C90415	C09992	C93082*
13/64	.2031	1.500	.081	.2031	6.000	C55016	C52227	C88033*
7/32	.2188	1.500	.088	.2188	4.000	C33317	C31435	C29906*
7/32	.2188	1.500	.088	.2188	6.000	C59892	C24117	C40167*
#1	.2280	1.500	.091	.2280	4.000	C90403	C97708	C91760*
#1	.2280	1.500	.091	.2280	6.000	C14929	C59584	C93672*
A	.2340	1.500	.094	.2340	4.000	C99526	C16811	C82039*
A	.2340	1.500	.094	.2340	6.000	C94961	C70323	C49297*
B	.2380	1.500	.095	.2380	4.000	C48696	C55732	C40428*
B	.2380	1.500	.095	.2380	6.000	C98607	C95016	C87310*
1/4	.2500	1.500	.100	.2500	4.000	C78583	C54478	C49318
1/4	.2500	1.500	.100	.2500	6.000	C50597	C44958	C12988
5/16	.3125	1.500	.125	.3125	4.000	C03525	C39892	C27649
3/8	.3750	1.500	.150	.3750	4.000	C84023	C98613	C88801

* Thinner CVD layer for balance between wear resistance and edge sharpness

see page 83 for 8 Facet Drills – PCD

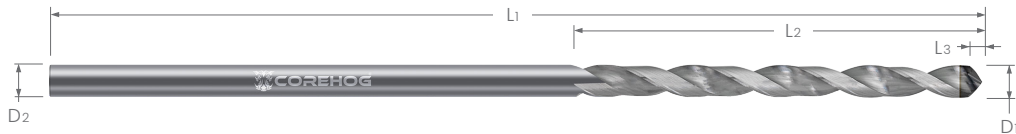


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8 Facet Drills – PCD Diamond

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



Size	Diameter		Length of Flute		Tip Length		Shank Diameter		Overall Length		PCD Diamond
	D1	D2	L2	L3	L3	L3	D2	D1	L1	L1	Tool #
#40	.0980	.0980	1.500	.039	.039	.039	.0980	.0980	4.000	4.000	C90396
#40	.0980	.0980	1.500	.039	.039	.039	.0980	.0980	6.000	6.000	C38258
1/8	.1250	.1250	1.500	.050	.050	.050	.1250	.1250	4.000	4.000	C49330
1/8	.1250	.1250	1.500	.050	.050	.050	.1250	.1250	6.000	6.000	C38653
#30	.1285	.1285	1.500	.051	.051	.051	.1285	.1285	4.000	4.000	C85685
#30	.1285	.1285	1.500	.051	.051	.051	.1285	.1285	6.000	6.000	C25332
9/64	.1406	.1406	1.500	.056	.056	.056	.1406	.1406	4.000	4.000	C15800
9/64	.1406	.1406	1.500	.056	.056	.056	.1406	.1406	6.000	6.000	C76164
5/32	.1563	.1563	1.500	.063	.063	.063	.1563	.1563	4.000	4.000	C19906
5/32	.1563	.1563	1.500	.063	.063	.063	.1563	.1563	6.000	6.000	C50071
#21	.1590	.1590	1.500	.064	.064	.064	.1590	.1590	4.000	4.000	C99483
#21	.1590	.1590	1.500	.064	.064	.064	.1590	.1590	6.000	6.000	C38093
#20	.1610	.1610	1.500	.064	.064	.064	.1610	.1610	4.000	4.000	C78394
#20	.1610	.1610	1.500	.064	.064	.064	.1610	.1610	6.000	6.000	C76345
11/64	.1719	.1719	1.500	.069	.069	.069	.1719	.1719	4.000	4.000	C59109
11/64	.1719	.1719	1.500	.069	.069	.069	.1719	.1719	6.000	6.000	C71236
3/16	.1875	.1875	1.500	.075	.075	.075	.1875	.1875	4.000	4.000	C42430
3/16	.1875	.1875	1.500	.075	.075	.075	.1875	.1875	6.000	6.000	C42410
#11	.1910	.1910	1.500	.076	.076	.076	.1910	.1910	4.000	4.000	C17060
#11	.1910	.1910	1.500	.076	.076	.076	.1910	.1910	6.000	6.000	C82350
#10	.1935	.1935	1.500	.077	.077	.077	.1935	.1935	4.000	4.000	C98671
#10	.1935	.1935	1.500	.077	.077	.077	.1935	.1935	6.000	6.000	C25422
#8	.1990	.1990	1.500	.080	.080	.080	.1990	.1990	4.000	4.000	C57410
#8	.1990	.1990	1.500	.080	.080	.080	.1990	.1990	6.000	6.000	C84739

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See page 81 for uncoated 8 Facet Drills

8 Facet Drills – PCD Diamond (cont.)

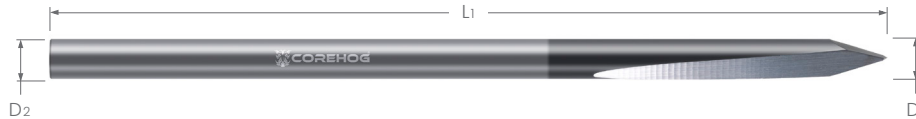
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Size	Diameter	Length of Flute	Tip Length	Shank Diameter	Overall Length	PCD Diamond
	D ₁	L ₂	L ₃	D ₂	L ₁	Tool #
#7	.2010	1.500	.080	.2010	4.000	C29982
#7	.2010	1.500	.080	.2010	6.000	C54216
13/64	.2031	1.500	.081	.2031	4.000	C34314
13/64	.2031	1.500	.081	.2031	6.000	C18210
7/32	.2188	1.500	.088	.2188	4.000	C85129
7/32	.2188	1.500	.088	.2188	6.000	C72004
#1	.2280	1.500	.091	.2280	4.000	C72387
#1	.2280	1.500	.091	.2280	6.000	C70412
A	.2340	1.500	.094	.2340	4.000	C80253
A	.2340	1.500	.094	.2340	6.000	C43657
B	.2380	1.500	.095	.2380	4.000	C98957
B	.2380	1.500	.095	.2380	6.000	C51757
1/4	.2500	1.500	.100	.2500	4.000	C68709
1/4	.2500	1.500	.100	.2500	6.000	C84791

See page 81 for uncoated 8 Facet Drills

Dagger Drills

- An ideal choice for hand drilling composites in assembly applications
- Can be reground without modifying point geometry
- Suitable for use in a wide range of composites
- Can also be used in CNC operations for added versatility
- DLC coating for improved lubricity and wear resistance
- Solid carbide
- Precision manufactured in the USA



Size	Diameter D1	Shank Diameter D2	Overall Length L1	Uncoated	DLC Coated
				Tool #	Tool #
#40	.0980	.0980	4.000	C94774	C54513
#40	.0980	.0980	6.000	C60051	C86727
1/8	.1250	.1250	4.000	C73794	C48573
1/8	.1250	.1250	6.000	C41171	C53673
#30	.1285	.1285	4.000	C26024	C33689
#30	.1285	.1285	6.000	C85516	C58943
9/64	.1406	.1406	4.000	C73344	C74783
9/64	.1406	.1406	6.000	C21761	C55142
5/32	.1563	.1563	4.000	C48825	C60040
5/32	.1563	.1563	6.000	C59872	C35069
#21	.1590	.1590	4.000	C33264	C24478
#21	.1590	.1590	6.000	C41070	C19253
#20	.1610	.1610	4.000	C85298	C79990
#20	.1610	.1610	6.000	C79913	C39287
11/64	.1719	.1719	4.000	C50934	C22739
11/64	.1719	.1719	6.000	C79416	C74357
3/16	.1875	.1875	4.000	C32275	C80957
3/16	.1875	.1875	6.000	C23050	C94739
#11	.1910	.1910	4.000	C38580	C81447
#11	.1910	.1910	6.000	C71797	C85505
#10	.1935	.1935	4.000	C29713	C26167
#10	.1935	.1935	6.000	C70854	C44812
#8	.1990	.1990	4.000	C99221	C58352
#8	.1990	.1990	6.000	C49796	C15288

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Dagger Drills (cont.)

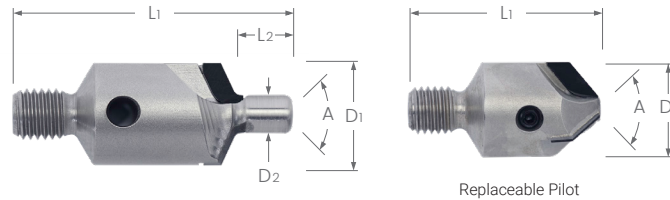
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Size	Diameter D ₁	Shank Diameter D ₂	Overall Length L ₁	Uncoated	DLC Coated
				Tool #	Tool #
#7	.2010	.2010	4.000	C75443	C92113
#7	.2010	.2010	6.000	C36177	C93241
13/64	.2031	.2031	4.000	C49487	C66627
13/64	.2031	.2031	6.000	C26465	C84617
7/32	.2188	.2188	4.000	C22977	C97767
7/32	.2188	.2188	6.000	C47529	C82266
#1	.2280	.2280	4.000	C95166	C19980
#1	.2280	.2280	6.000	C40676	C95914
A	.2340	.2340	4.000	C57581	C72944
A	.2340	.2340	6.000	C45685	C93784
B	.2380	.2380	4.000	C91642	C10495
B	.2380	.2380	6.000	C08141	C53020
1/4	.2500	.2500	4.000	C03988	C87771
1/4	.2500	.2500	6.000	C75824	C44308
5/16	.3125	.3125	4.000	C61893	C63253
3/8	.3750	.3750	4.000	C31239	C03152

NEW ITEMS

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 onto high-speed steel body for outstanding microhardness and abrasion resistance for significant improvement in tool life
- Precision manufactured in Italy



	Included Angle A	Diameter D1	Pilot Diameter D2	Pilot Length L2	Shank Thread	Flutes	Hole Diameter	Overall Length L1	PCD Diamond Tool #
NEW NEW NEW NEW NEW NEW NEW	100°	.3750	.096	.200	1/4-28	2	-	1.365	C15085
		.3750	.159	.200	1/4-28	2	-	1.365	C06442
		.3750	.188	.200	1/4-28	2	-	1.365	C59144
		.3750	.199	.200	1/4-28	2	-	1.365	C35829
		.5000	.188	.200	1/4-28	2	-	1.365	C28471
		.5000	.188	.200	1/4-28	3	-	1.365	C73531
		.5000	.199	.200	1/4-28	2	-	1.365	C14206
		.5000	.199	.200	1/4-28	3	-	1.365	C74331
		.5000	.248	.200	1/4-28	2	-	1.365	C61588
		.5000	.248	.200	1/4-28	3	-	1.365	C60696
		.5000	Replaceable	-	1/4-28	2	.094	1.365	C72733
		.5000	Replaceable	-	1/4-28	3	.094	1.365	C15147
		.6250	.188	.200	1/4-28	2	-	1.365	C13007
		.6250	.199	.200	1/4-28	2	-	1.365	C61557
		.6250	.248	.200	1/4-28	2	-	1.365	C16693
	130°	.5000	.188	.200	1/4-28	2	-	1.365	C80597
		.5000	.188	.200	1/4-28	3	-	1.365	C49699
		.5000	.199	.200	1/4-28	2	-	1.365	C36217
		.5000	.199	.200	1/4-28	3	-	1.365	C75796
		.5000	.248	.200	1/4-28	2	-	1.365	C93938
		.5000	.248	.200	1/4-28	3	-	1.365	C23165
		.5000	Replaceable	-	1/4-28	2	.094	1.365	C18815
		.5000	Replaceable	-	1/4-28	3	.094	1.365	C96616

Countersinks

Interchangeable Pilot

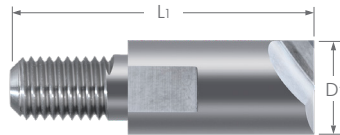
- Interchangeable pilot design ensures countersink is concentric around the hole
- Interchangeable design allows for added versatility
- Provides excellent performance in abrasive materials like CFRP, fiberglass, and Kevlar®
- Specially designed for aircraft manufacturing with use of handheld pneumatic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



Pilot Diameter D ₁	Pilot Length	Shank Diameter D ₂	Uncoated
			Tool #
.0980	.200	.0940	C87756
.1250	.200	.0940	C88104
.1285	.200	.0940	C93928
.1590	.200	.0940	C88548
.1610	.200	.0940	C20350
.1850	.200	.0940	C13702
.1875	.200	.0940	C59242
.1890	.200	.0940	C43980
.1935	.200	.0940	C50171
.1990	.200	.0940	C18803
.2460	.200	.0940	C62451
.2500	.200	.0940	C18074
.2610	.200	.0940	C92035

Rivet Shavers for Aluminum – Solid Carbide

- Designed to quickly shave heads of aluminum rivets and reduce aerodynamic drag
- Solid carbide construction for superior performance with up to 4x tool life and fewer tool changes than traditional brazed carbide tipped designs
- For use with Microstop Countersink Cages
- Wrench flats properly secure shaver
- Center cutting
- Precision manufactured in the USA

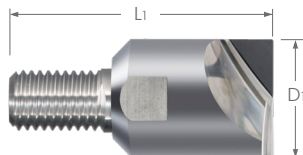


— Solid Carbide for
4x tool life

Diameter D ₁	Shank Thread	Flutes	Overall Length L ₁	Uncoated
				Tool #
.3750	1/4-28	2	1.210	C47755
.4375	1/4-28	2	1.210	C82478
.5000	1/4-28	2	1.210	C37093
.5625	1/4-28	2	1.210	C07832
.6250	1/4-28	2	1.210	C96356
.7500	1/4-28	2	1.210	C56635

Rivet Shavers for Titanium – Solid Carbide

- Designed to quickly shave heads of rivets and reduce aerodynamic drag
- Specifically designed for enhanced performance when machining Titanium rivets
- Solid carbide construction for superior performance with up to 4x tool life and fewer tool changes than traditional brazed carbide tipped designs
- For use with Microstop Countersink Cages
- Wrench flats properly secure shaver
- Center cutting
- Precision manufactured in the USA



— Solid Carbide for
4x tool life

Diameter D ₁	Shank Thread	Flutes	Overall Length L ₁	Uncoated
				Tool #
.3750	1/4-28	2	1.210	C14656
.4375	1/4-28	2	1.210	C74962
.5000	1/4-28	2	1.210	C60532
.6250	1/4-28	2	1.210	C05530

Nut Plate Drills

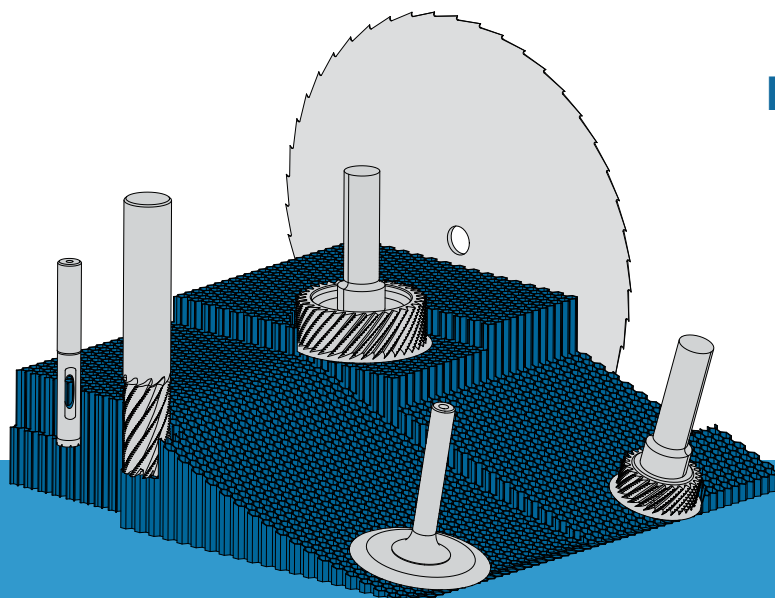
NEW

- Designed to be used in a hand-held pneumatic drill to create highly accurate countersunk holes to secure nut plates
- Solid steel construction provides improved quality that delivers enhanced tool life over typical brazed 2 piece construction
- Optimized for laminates and stacked material containing Composite, Aluminum, Steel and Titanium
- Wrench flats properly secure nut plate drill
- Solid cobalt steel
- Precision manufactured in the USA



Single Piece Construction for Added Strength and Lifespan

Diameter D ₁	Length of Flute L ₂	Shank Thread	Shank Diameter D ₂	Overall Length L ₁	Flutes	Uncoated Tool #	
.0980	.295	8-32	.1875	2.720	2	C68664	NEW
.0980	.420	8-32	.1875	2.845	2	C30960	NEW
.0980	.560	8-32	.1875	2.985	2	C83438	NEW
.0980	.295	8-32	.2500	2.720	2	C54731	NEW
.0980	.420	8-32	.2500	2.845	2	C46160	NEW
.0980	.560	8-32	.2500	2.985	2	C44779	NEW
.1285	.295	8-32	.2500	2.720	2	C04201	NEW
.1285	.420	8-32	.2500	2.845	2	C95721	NEW
.1285	.560	8-32	.2500	2.985	2	C08419	NEW



Machining Application Guides

Take a closer look at how CoreHog tools machine a range of composite materials to determine the perfect solution for your next job.

Honeycomb	pg. 10
Sandwich Panel	pg. 35
Laminates	pg. 46

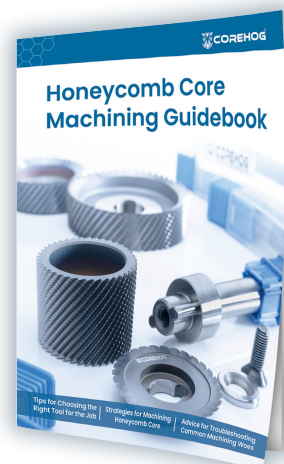
Honeycomb Core Machining Guidebook

Your go-to resource for mastering core finishing, roughing, and more



What's inside:

- Tips for Choosing the Right Tool for the Job
- Strategies for Machining Honeycomb Core
- Advice for Troubleshooting Common Machining Woes



Scan the QR code to download our free guidebook & take the guesswork out of honeycomb core machining.

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New Tools for Complex Composite Work

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Rebating Cutters For Aluminum pg. 45



CFRP Router Rougher/Finisher Downcut pg. 48

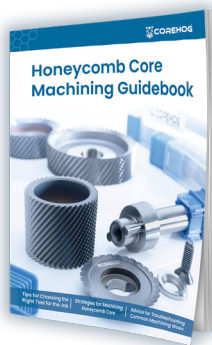


Threaded Shank Tooling Nut Plate Drills pg. 90



Honeycomb Core Machining Guidebook

Your go-to resource for mastering core finishing, roughing, and more



What's inside:

- Tips for Choosing the Right Tool for the Job
- Strategies for Machining Honeycomb Core
- Advice for Troubleshooting Common Machining Woes

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