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Carbide Cutting Tools SC, Inc.

HIGH PERFORMANCE END MILLS

Spring 2008 Catalog

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Carbide Cutting Tools SC, Inc.
6 Spyglass Court, Greenville, SC 29609
www.carbidecuttingtools.com
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MADE in the USA

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TERMINATOR 40° 5 FLUTE FINISHER

An eccentric ground finisher designed with a 40° helix angle for machining high temp alloys and stainless steel. A multi-layer TiAlN coating for extended tool life.



DIAMETER	LOC	SHANK	O.A.L.	TIALN SKU#
1/4	3/4	1/4	2 1/2	15074
5/16	3/4	5/16	2 1/2	15079
3/8	1	3/8	2 1/2	15080
1/2	1	1/2	3	15075
1/2	1 1/4	1/2	3	15078
5/8	1 1/4	5/8	3 1/2	15076
3/4	1 1/2	3/4	4	15077

HARMONICUT END MILLS 4 FLUTE

Harmonicut end mills offer the ultimate in end mill performance. Our geometry combines alternate flute spacing and variable flute pitch. This combined with a heavier core diameter and a multi-layer TiAlN coating makes this end mill a top performer.



DIAMETER	CORNER RADIUS	LOC	SHANK	O.A.L.	TIALN SKU#
1/4	.015-.020	3/4	1/4	2 1/2	14933
5/16	.015-.020	3/4	5/16	2 1/2	14934
3/8	.015-.020	1	3/8	2 1/2	14757
1/2	.030-.035	1	1/2	3	14654
1/2	.030-.035	1 1/4	1/2	3	14714
5/8	.030-.035	1 1/4	5/8	3 1/2	14935
3/4	.030.035	1 1/2	3/4	4	14732

ALUMINUM END MILLS 45° 2 FLUTE

A 2 flute high helix Zirconium coated end mill designed for aluminum and soft materials.



DIAMETER	LOC	SHANK	O.A.L.	ZIRCONIUM SKU#
1/4	3/4	1/4	2 1/2	15082
5/16	3/4	5/16	2 1/2	15081
3/8	1	3/8	2 1/2	15083
1/2	1	1/2	3	14769
5/8	1 1/4	5/8	3 1/2	15084
3/4	1 1/2	3/4	4	15085

HARMONICUT R/F END MILLS 4 FLUTE

The Harmonicut R/F end mill combines the ultimate in end mill performance as in our standard Harmonicut and adds the rougher/finisher chipbreaker notches to the cutting edge. This advancement provides for additional chip control. This combined with a heavier core diameter and a multi-layer TiAlN coating makes this end mill a top performer.



DIAMETER	CORNER RADIUS	LOC	SHANK	O.A.L.	TIALN SKU#
1/4	.015-.020	3/4	1/4	2 1/2	15635
5/16	.015-.020	3/4	5/16	2 1/2	15636
3/8	.015-.020	1	3/8	2 1/2	15637
1/2	.030-.035	1 1/4	1/2	3	15341
5/8	.030-.035	1 1/4	5/8	3 1/2	15638
3/4	.030.035	1 1/2	3/4	4	15639

HARMONICUT AL END MILLS 3 FLUTE

Harmonicut AL end mills offer the ultimate in end mill performance when machining aluminum and soft materials. Our geometry combines alternate flute spacing and variable flute pitch. This combined with a heavier core diameter and a Zirconium coating makes this end mill a top performer in softer material applications.



DIAMETER	LOC	SHANK	O.A.L.	ZIRCONIUM SKU#
1/4	3/4	1/4	2 1/2	14936
5/16	3/4	5/16	2 1/2	14937
3/8	1	3/8	2 1/2	14938
1/2	1	1/2	3	14939
1/2	1 1/4	1/2	3	14739
5/8	1 1/4	5/8	3 1/2	14940
3/4	1 1/2	3/4	4	14942

ALUMINUM FINE PITCH ROUGHER END MILLS 3 FLUTE

A fine pitch rougher designed especially for aluminum machining with a 42.5° helix angle and a Zirconium coating for enhanced chip flow.



DIAMETER	LOC	SHANK	O.A.L.	ZIRCONIUM SKU#
1/4	3/4	1/4	2 1/2	14927
5/16	3/4	5/16	2 1/2	14928
3/8	1	3/8	2 1/2	14929
1/2	1	1/2	3	14740
1/2	1 1/4	1/2	3	14930
5/8	1 1/4	5/8	3 1/2	14931
3/4	1 1/2	3/4	4	14932

FINE PITCH ROUGHER END MILLS 4 FLUTE

The fine pitch rougher is designed for maximum metal removal. These end mills have a premium multi-layer TiAlN coating for enhanced performance.



DIAMETER	CORNER RADIUS	LOC	SHANK	O.A.L.	TIALN SKU#
1/4	Chamfer	3/4	1/4	2 1/2	14756
5/16	Chamfer	3/4	5/16	2 1/2	14925
3/8	Chamfer	1	3/8	2 1/2	14752
1/2	Chamfer	1	1/2	3	14719
1/2	Chamfer	1 1/4	1/2	3	14908
5/8	Chamfer	1 1/4	5/8	3 1/2	14926
3/4	Chamfer	1 1/2	3/4	4	14743
3/4	Chamfer	2	3/4	4	14733

TERMINATOR 40° 6 FLUTE FINISHER

An eccentric ground finisher designed with a 40° helix angle for machining high temp alloys and stainless steel. A multi-layer TiAlN coating for extended tool life.



DIAMETER	LOC	SHANK	O.A.L.	TIALN SKU#
1/4	3/4	1/4	2 1/2	14749
5/16	3/4	5/16	2 1/2	15072
3/8	1	3/8	2 1/2	15073
1/2	1	1/2	3	14961
1/2	1 1/4	1/2	3	15071
5/8	1 1/4	5/8	3 1/2	15004
3/4	1 1/2	3/4	4	15069

Our complete line of tools are produced utilizing the latest in CNC grinding technology to assure accuracy, repeatability and performance.



We offer a complete Design and Build Service for special end mill applications



STANDARD 30° END MILL 4 FLUTE

A 4 flute TiAlN coated, designed for general purpose machining.



DIAMETER	LOC	SHANK	O.A.L.	TIALN SKU#
1/4	3/4	1/4	2 1/2	15042
5/16	3/4	5/16	2 1/2	15133
3/8	1	3/8	2 1/2	15037
1/2	1	1/2	3	15036
5/8	1 1/4	5/8	3 1/2	15048
3/4	1 1/2	3/4	4	15047

STANDARD 30° END MILL 4 FLUTE R/F CHIPBREAKER

A 4 flute TiAlN coated ChipBreaker design. With the added chipbreakers, this tool adds chip control and the ability to use the tool as a rougher/finisher, R/F.



DIAMETER	LOC	SHANK	O.A.L.	TIALN SKU#
1/4	3/4	1/4	2 1/2	15628
5/16	3/4	5/16	2 1/2	15629
3/8	1	3/8	2 1/2	15630
1/2	1	1/2	3	15621
5/8	1 1/4	5/8	3 1/2	15633
3/4	1 1/2	3/4	4	15607