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Carbide Cutting Tools SC, Inc.

HIGH PERFORMANCE END MILLS

Spring 2008 Catalog

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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 |