

## COVE NOSE SPIRALS

**NEW**



RU2075CN



PART # RU2075CN

Two Flute

Up Cut

Part #	Shank Dia.	Cutting Dia.	Corner Radius	Cutting Length	Overall Length
RU2075CN	1/4"	1/4"	1/16"	3/4"	2-1/2"
RU5125CN	1/2"	1/2"	1/8"	1-1/4"	3"

## BALL NOSE SPIRALS



RU1800RN



RU2075RN



PART# RU1800RN

Two Flute

Up Cut

Part #	Shank Dia.	Cutting Dia.	Radius	Cutting Length	Overall Length
RU1800RN	1/4"	3/16"	3/32"	3/4"	2-1/2"
RU2075RN	1/4"	1/4"	1/8"	3/4"	2-1/2"
RU5125RN	1/2"	1/2"	1/4"	1-1/4"	3"

## CONICAL BALL NOSE SPIRALS

**NEW**



SC64



PART # SC64



SC66



PART # SC66

Four Flute

Up Cut

Part #	Shank Dia.	Ball Dia.	Radius	Included Angle	Overall Length
SC64	1/4"	1/16"	1/32"	11°	2-1/2"
SC66	1/4"	1/8"	1/16"	7°	2-1/2"

## ULTIMATE COMPRESSION BITS

CNC Sheet Goods  
Up / Down Bits

**NEW**

The "ULTIMATE" Carbide Compression Spiral Bit for CNC routing of sheet goods such as plywood and MDF.

Part #	Shank Dia.	Cutting Dia.	Cutting Length	Overall Length
UC5050	1/2"	3/8"	1/2"	3"
UC5075	1/2"	3/8"	3/4"	3"

Conventional Compression Bits typically force the chips into the mid-section of the cut where the up-cut and down-cut flutes overlap. These chips can pack into the flutes which make the bit hard to push and causes it to run much hotter. This results in lower feed rates and shorter tool life.



PART # UC5050

### ADVANTAGES of the "ULTIMATE" Bit

- Dedicated cut length to match the material thickness.
- Up-cut flute extends into shank to improve chip evacuation.
- Ultimate chip control allows the bit to cut more freely, run cooler, and last longer.
- The down-shear flute cuts a 45° chamfer. Position the depth to barely shave the top edge of the material or lower the bit to cut up to a 1/16" chamfer.
- 3/8" cutting diameter bits are optimal for routing sheet goods. They remove less material with lower horsepower than 1/2" cutting diameter bits.
- 1/2" shank diameter provides the best rigidity and eliminates the need for odd sized collets.

## O-FLUTE SPIRALS

Plastic Cutting

**NEW**

Standard O-Flute Spiral Bits designed for most plastic and aluminum applications.

Up Cut Part #	Down Cut Part #	Cutting Dia.	# Of Flutes	Cutting Length	Overall Length
1/4" SHANK					
RU1581A	-	1/8"	1	1/4"	2"
RU1601A	RD1601A	1/8"	1	1/2"	2-1/2"
RU1701A	-	5/32"	1	5/8"	2-1/2"
RU1801A	-	3/16"	1	5/8"	2-1/2"
RU2074A	RD2074A	1/4"	1	3/4"	2-1/2"
RU2076A	RD2076A	1/4"	2	3/4"	2-1/2"
RU2111A	-	1/4"	1	1-1/8"	3"
3/8" SHANK					
RU4111A	RD4111A	3/8"	1	1-1/8"	3"
1/2" SHANK					
RU5121A	-	1/2"	1	1-1/4"	3"
RU5161A	-	1/2"	1	1-5/8"	3-1/2"
RU5201A	-	1/2"	1	2"	4"

TOP VIEW



PART # RU4111A

**NEW**

## HERCULES

Max Life Spirals

**NEW**



PART # HU5125

This series is named "Hercules" for its ability to hold up under severe loads.

- Engineered for Maximum Bit Life in High Wear Applications
- Ideal for long production runs in MDF and Laminated Materials



PART # HC5122M

Up Cut

Part #	Shank Dia.	Cutting Dia.	Cutting Length	Overall Length
HU4125	3/8"	3/8"	1-1/4"	3"
HU5125	1/2"	1/2"	1-1/4"	3"

Down Cut

Part #	Shank Dia.	Cutting Dia.	Cutting Length	Overall Length
HD4125	3/8"	3/8"	1-1/4"	3"
HD5125	1/2"	1/2"	1-1/4"	3"

Up / Down Cut (2+2 Compression)

Part #	Shank Dia.	Cutting Dia.	Cutting Length	Overall Length
HC4122	3/8"	3/8"	1-1/4"	3"
* HC4122M	3/8"	3/8"	1-1/4"	3"
HC5122	1/2"	1/2"	1-1/4"	3"
* HC5122M	1/2"	1/2"	1-1/4"	3"

\* Mortise Style (Short up-cut flute for shallow dado cuts)

## LINER BITS

**NEW**

Included Angle	Part #	Shank Dia.	Point Type	Overall Length
22°	SC50	1/4"	Pencil	2-1/2"
15°	SC54	1/4"	1/16" Flat	2-1/2"
	SC55	1/4"	3/32" x 45°	2-1/2"

## CONICAL BALL NOSE Four Flute

**NEW**

Included Angle	Part #	Shank Dia.	Ball Dia.	Radius	Overall Length
11°	SC64	1/4"	1/16"	1/32"	2-1/2"
7°	SC66	1/4"	1/8"	1/16"	2-1/2"

## ENGRAVING BITS

**NEW**

Included Angle	Part #	Shank Dia.	Point Type	Overall Length
30°	SC70	1/4"	Pencil	2"
	SC71	1/4"	1/32" Flat	2"
45°	SC75	1/4"	Pencil	2"
	SC76	1/4"	1/32" Flat	2"

## INTERLOCKING FLUSH TRIM With Replaceable Head

**NEW**

REPLACEABLE HEAD

PART # WM150

PART # WM151

PART # WM152

UNIQUE INTERLOCKING HEAD DESIGN

## LAMINATE ROUNDROVER

**NEW**

PART #2630 ROUND BEARING

PART #2631 SQUARE BEARING

Eliminates Filing

Part #	Shank Dia.	Cutting Dia.	Radius	Cutting Length	Overall Length	Bearing
2630	1/4"	1/2"	1/16"	3/16"	1-5/8"	B3
2631	1/4"	1/2"	1/16"	3/16"	1-5/8"	B3SQ

## SPOILBOARD SURFACING

### CNC SPOILBOARD SURFACING

An economical, carbide tipped version to resurface your spoilboard. Designed for smaller CNC machines.

**NEW**

Part #	Shank Dia.	Cut Dia.	Cutting Length	# of Wings
6210	1/4"	1"	1/4"	3
6220	1/2"	2"	1/2"	4

## CNC SETS

**NEW** 1/4" Shank Sets Perfect for 2D and 3D Carving

#703 Ball Nose Set group contains three 1/4" shank bits consisting of two Ball Nose Spirals and one Conical Ball Nose Spiral. Great for most CNC profiling.

#705 Starter Set is a great asset for small CNC owners who are just learning how to use their machine. Even experienced CNC machinists will appreciate the selection of bits in this set. This group contains five 1/4" bits including two Conical Ball Nose Spirals, an Up Cut Spiral, and two V-Groove bits.

Part #	Pcs	Description
703	3	Ball Nose Set - SC66, RU1800RN, RD2075RN
705	5	Starter Set - SC64, SC66, RL2075, 1502, 1500
706	6	Lettering Set - 1403, 1404, 1506, 1572, 2051, RL2075CN
708	8	Engraving Set - SC54, SC55, SC70, SC71, SC75, SC76, 1541, 1500

#706 Lettering Set group contains six bits including a Pointed Roundover, Plunge Roundover, 60° V-Groove, a Cove Nose Spiral, and two sizes of Round Nose Bits. Create a wide variety of letters, signs, and decorative artwork with these bits.

#708 Engraving Set contains eight 1/4" Engraving bits with an included angle ranging from 15° to 90°. All types of projects will appear visually stunning with the many engraving options that exist from this one kit.

## Carbide Tipped Staggetooth



## Solid Carbide Spiral Up / Down Cut (2+2 Compression)

**NEW**

Part #	Dia.	Cutting Length	Overall Length	Description
UD5222	1/2"	2-1/4"	5-1/2"	Round Shank