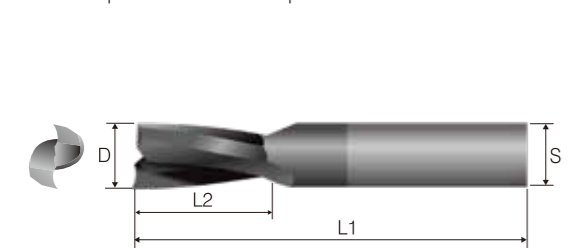


**Features:** Designed for machining both soft and hard plastics, delivering smooth cutting surfaces with efficient upward chip evacuation.  
**Applications:** Hard plastics, Soft plastics  
**Cut Direction:** : Up-Cut O-Flute

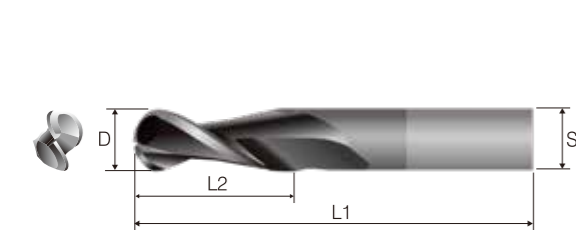
Diameter	Shank	Length of Cut	Overall Length	Flute	Item
D	S	L2	L1	Z	ID
1/4"	1/4"	3/4"	2-1/2"	1	R14XU1.752.5H
1/4"	1/4"	3/4"	2-1/2"	1	R14XU1.752.5S
3/8"	3/8"	1-1/8"	3"	1	R38XU1.125.3H
3/8"	3/8"	1-1/8"	3"	1	R38XU1.125.3S
1/2"	1/2"	1-5/8"	3-1/2"	1	R12XU1.6253.5H
1/2"	1/2"	1-5/8"	3-1/2"	1	R12XU1.6253.5S

S=Soft plastics H=Hard plastics



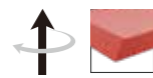
**Features:** Low-helix angle design, suitable for machining both soft and hard plastics, providing smooth cutting surfaces with efficient upward chip evacuation.  
**Applications:** Hard plastics  
**Cut Direction:** : Up-Cut O-Flute

Diameter	Shank	Length of Cut	Overall Length	Flute	Item
D	S	L2	L1	Z	ID
1/4"	1/4"	3/4"	2-1/2"	2	R14XU2.752.5
3/8"	3/8"	1"	3"	2	R38XU21.03
1/2"	1/2"	1-1/8"	3-1/2"	2	R12XU21.1253.5



**Features:** Unique geometry with specialized tip and highly polished flutes achieves superior surface finish, reaching Ra 28 when machining plastics.  
**Applications:** Engraving and carving  
**Cut Direction:** : Spiral Upcut Ballnose

Diameter	Shank	Length of Cut	Overall Length	Flute	Item
D	S	L2	L1	Z	ID
1/4"	1/4"	7/8"	2-1/2"	2	R14B2.8752.5
3/8"	3/8"	1-1/8"	3"	2	R38B21.1253
1/2"	1/2"	1-1/8"	3"	2	R12B21.1253



## Professional Cutting Tools Manufacturer

We maintain high-quality standards throughout our manufacturing process, making sure every product goes through strict quality inspections at every stage of production.



## SPIRAL ROUTER BITS Solid Carbide



### DINGCHANG-TOOL INDUSTRIAL CO., LTD.

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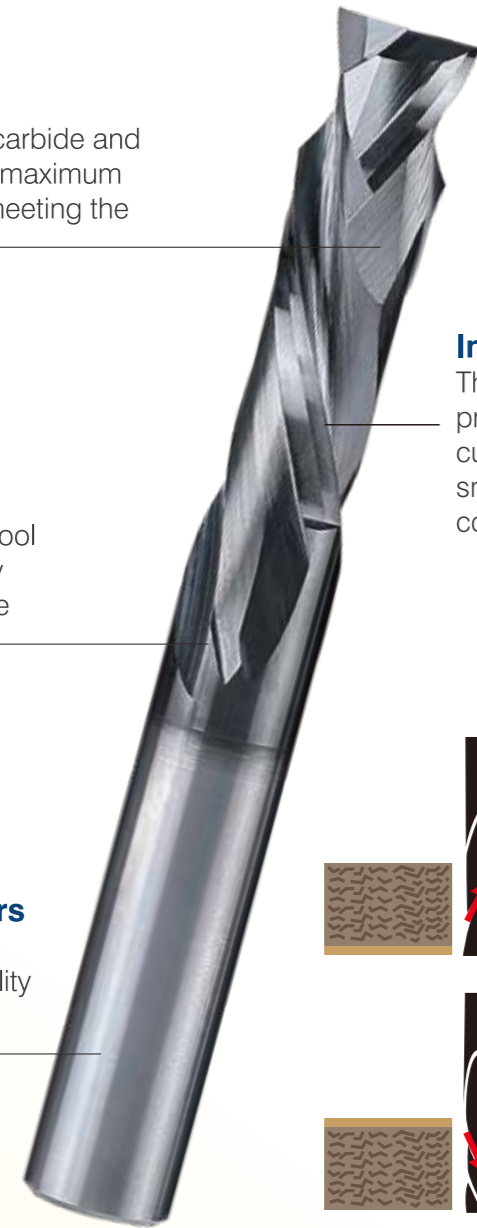
# Spiral Router Bits With Coating

## Extended Tool Life

Made with premium-grade tungsten carbide and advanced coatings, this tool delivers maximum performance and a longer lifespan, meeting the demands of rigorous applications.

## In-House Manufacturing

From R&D to final production, every tool is crafted in-house under strict quality control, ensuring reliable performance and customer satisfaction.

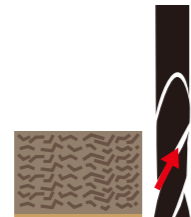


## Innovative Design

The specialized spiral and flute design provides superior chip evacuation and cutting efficiency, delivering exceptionally smooth finishes even under demanding conditions.

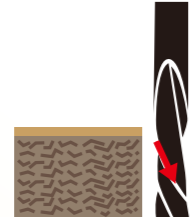
## Wide Range of Shank Diameters

Available in shank diameters ranging from 1/4" to 1/2", providing compatibility with a wide range of machining requirements.



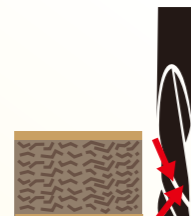
### Up-Cut Helix

Efficiently evacuates chips upward, making it ideal for general cutting. Especially suitable for groove cutting and deep-slot machining in composite panels.



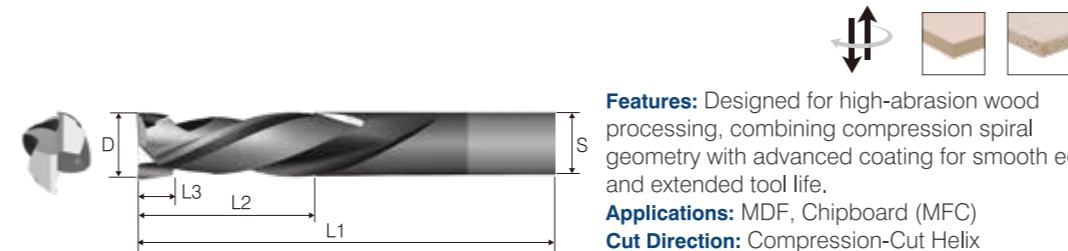
### Down-Cut Helix

Forces chips downward, ensuring excellent edge quality on the top surface. Recommended for solid wood or coated panels where a clean top-edge finish is essential.



### Compression-Cut Helix

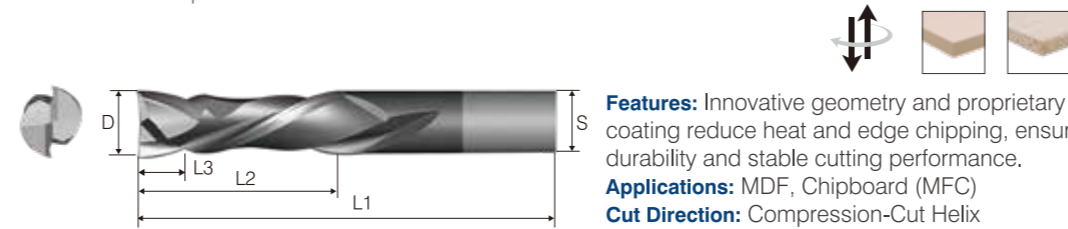
Combines up-cut and down-cut flutes to ensure clean edges on both top and bottom surfaces, making it ideal for double-sided laminated or veneered materials.



**Features:** Designed for high-abrasion wood processing, combining compression spiral geometry with advanced coating for smooth edges and extended tool life.  
**Applications:** MDF, Chipboard (MFC)  
**Cut Direction:** Compression-Cut Helix

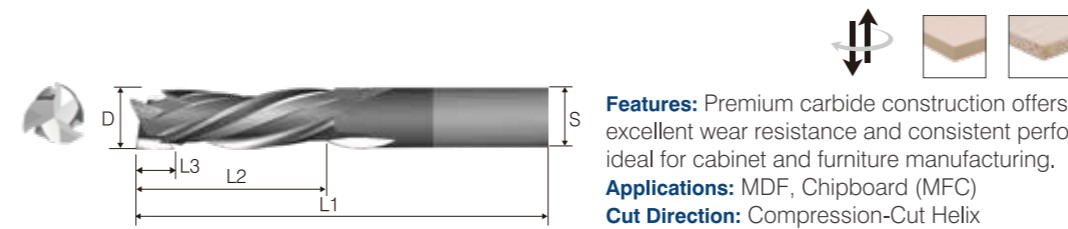
Diameter	Shank	Mortise	Length of Cut	Overall Length	Flute	Item
D	S	L3	L2	L1	Z	ID
1/2"	1/2"	0.188"	1"	3"	2+2-M	R12C21.03M
1/4"	1/4"	0.188"	7/8"	2-1/2"	2+2-M	R14C2.8752.5M
3/8"	3/8"	0.188"	1"	3"	2+2-M	R38C21.03M
1/2"	1/2"	0.2"	1-3/8"	3-1/2"	2+2-M	R12C21.3753.5M

M=Mortise Compression



**Features:** Innovative geometry and proprietary coating reduce heat and edge chipping, ensuring durability and stable cutting performance.  
**Applications:** MDF, Chipboard (MFC)  
**Cut Direction:** Compression-Cut Helix

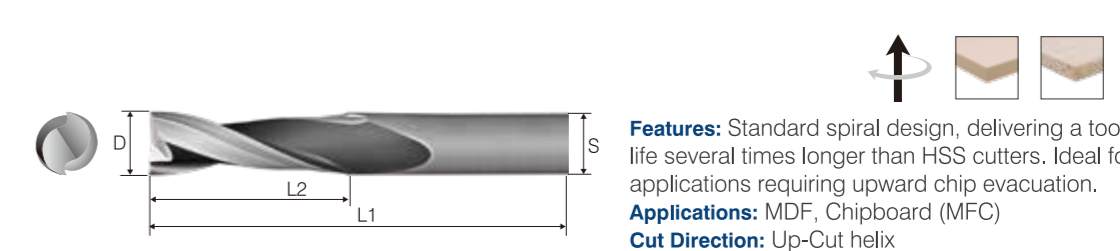
Diameter	Shank	Mortise	Length of Cut	Overall Length	Flute	Item
D	S	L3	L2	L1	Z	ID
3/8"	3/8"	0.394"	1-1/8"	3"	2+2	R38C21.1253
1/2"	1/2"	0.562"	1-1/8"	3"	2+2	R12C21.1253
1/2"	1/2"	0.625"	1-3/8"	3-1/2"	2+2	R12C21.3753.5
1/2"	1/2"	0.75"	1-5/8"	4"	2+2	R12C21.6254



**Features:** Premium carbide construction offers excellent wear resistance and consistent performance, ideal for cabinet and furniture manufacturing.  
**Applications:** MDF, Chipboard (MFC)  
**Cut Direction:** Compression-Cut Helix

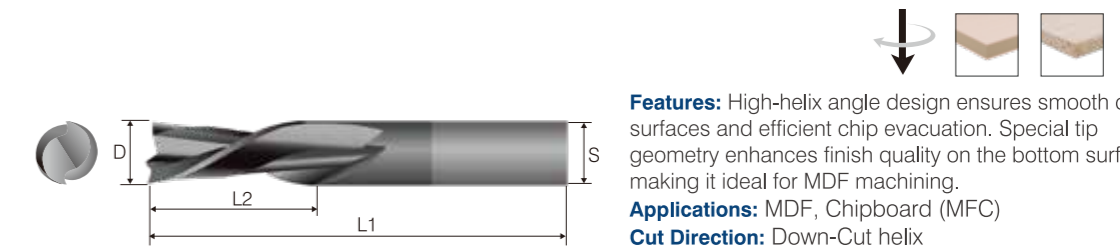
Diameter	Shank	Mortise	Length of Cut	Overall Length	Flute	Item
D	S	L3	L2	L1	Z	ID
1/2"	1/2"	0.188"	7/8"	3"	3+3-M	R12C3.8753M
3/8"	1/2"	0.188"	7/8"	3"	3+3-M	R38C3.8753M
3/8"	3/8"	0.5"	1-1/8"	3"	3+3	R38C31.1253
3/8"	3/8"	0.2"	7/8"	3"	3+3-M	R38C3.8753M
1/2"	1/2"	0.2"	7/8"	3"	3+3-M	R12C3.8753M
1/2"	1/2"	0.2"	1-3/8"	3-1/2"	3+3-M	R12C31.3753M

M=Mortise Compression



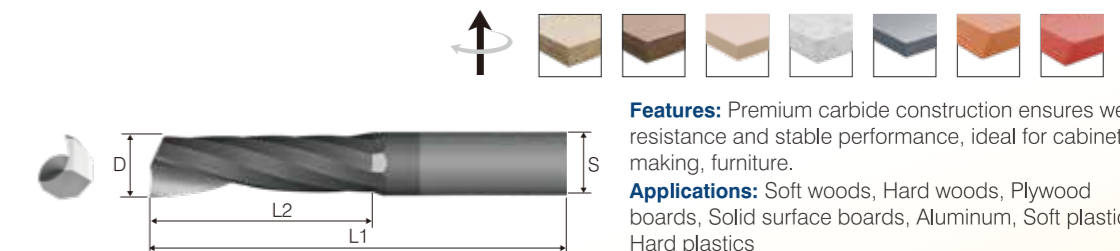
**Features:** Standard spiral design, delivering a tool life several times longer than HSS cutters. Ideal for applications requiring upward chip evacuation.  
**Applications:** MDF, Chipboard (MFC)  
**Cut Direction:** Up-Cut helix

Diameter	Shank	Length of Cut	Overall Length	Flute	Item
D	S	L2	L1	Z	ID
1/4"	1/4"	7/8"	2-1/2"	2	R14U2.8752.5
3/8"	3/8"	1-1/8"	3"	2	R38U21.1253
1/2"	1/2"	1"	3"	2	R12U21.03
1/2"	1/2"	1-1/8"	3"	2	R12U21125.3



**Features:** High-helix angle design ensures smooth cutting surfaces and efficient chip evacuation. Special tip geometry enhances finish quality on the bottom surface, making it ideal for MDF machining.  
**Applications:** MDF, Chipboard (MFC)  
**Cut Direction:** Down-Cut helix

Diameter	Shank	Length of Cut	Overall Length	Flute	Item
D	S	L2	L1	Z	ID
1/4"	1/4"	7/8"	2-1/2"	2	R14D2.8752.5
3/8"	3/8"	1"	3"	2	R38D21.03
3/8"	3/8"	1-1/8"	3"	2	R38D21.1253
1/2"	1/2"	1"	3"	2	R12D21.03
1/2"	1/2"	1-1/8"	3"	2	R12D21.1253



**Features:** Premium carbide construction ensures wear resistance and stable performance, ideal for cabinet making, furniture.  
**Applications:** Soft woods, Hard woods, Plywood boards, Solid surface boards, Aluminum, Soft plastics, Hard plastics  
**Cut Direction:** Up-Cut Super O-Flute

Diameter	Shank	Length of Cut	Overall Length	Flute	Item
D	S	L2	L1	Z	ID
1/4"	1/4"	7/8"	2-1/2"	1	R14SU1.8752.5
1/4"	1/4"	1-1/4"	3"	1	R14SU11.253
1/4"	1/4"	1-1/2"	3"	1	R14SU11.53
3/8"	3/8"	1-1/8"	3"	1	R38SU11.1253