

## MACHINING

### Router Bits

No. of Pieces	Profile Bit Shape Included	Brand	Item No.
3	Flush Trim	—	16Y598
	Rail, Raised Panel, Stile	—	16Y604
	Rail, Raised Panel, Stile	Westward	45J321
	Straight	—	16Y597
	Flush Trim, Panel, Pattern	—	16Y548
4	Forming	—	16Y603
	Roundover	—	16Y602
	Roundover	Vermont American	41HR19
	Straight	—	16Y547
	Chamfer, Cove, Rabbeting, Roman Ogee, Roundover	—	16Y554
6	Flush Trim, Pattern, Straight	—	16Y599
	Slot Cutter	—	16Y601
8	Upshear Design, V-Groove, Core Box, Spiral Plunge, Down Cut, Bottom Cleaning/Spool Board, 0.10" Tapered Angle Ball Tip, 2D & 3D Carving, 2D & 3D Carving, 5.4" Tapered Angle Ball Tip, 90° Angle	Powermatic	52XJ10
	Chamfer, Core Box, Cove, Rabbeting, Roman Ogee, Roundover, Straight	—	16Y553
10	Chamfer, Classical, Core Box, Cove, Dovetail, Keyhole, Mortising	—	16Y605
30	Ogee, Ovolo, Panel, Rabbeting, Roman Ogee, Roundover, Straight	—	16Y605



Scan. Order. Done.  
Details on page A1.



8 Piece  
52XJ10

## Router Bit Sets

Router bit sets contain multiple bits for creating decorative edges and other features in workpieces. These bits are used in woodworking and light manufacturing applications in a variety of materials, including wood, some metals, plastics, and composites.

ONSRUD  
ONSRUD CUTTER LP

**MICRO 100**  
super carbide tools



**WESTWARD** freud



**Carbide Solid Router Bit for Wood**  
**Spiral Downcut**  
**4VZ3X**

## Solid Router Bits

Solid router bits make plunge and profile cuts in solid surfaces. The geometry of the router bit helps determine the material it's best suited for use with. These router bits are used in CNC routers, machining centers, and milling machines for manufacturing and production applications.

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
<b>Carbide Solid Router Bits for Aluminum</b>						
<b>Spiral O-Flute Downcut</b>						
1/8 in	1/4 in	1 1/2 in	1/8 in	22°	Onsrud	4KPR6
1/8 in	1/2 in	2 in	1/4 in	22°	Onsrud	4KPR8
1/4 in	3/8 in	2 in	1/4 in	22°	Onsrud	4KPR9
<b>Spiral O-Flute Upcut</b>						
1/8 in	1/4 in	1 1/2 in	1/8 in	22°	Onsrud	4KPT2
1/8 in	1/4 in	1 1/2 in	1/8 in	22°	Onsrud	4KPT3
1/8 in	1/4 in	2 in	1/4 in	22°	Onsrud	4KPT4
1/8 in	1/2 in	2 in	1/4 in	22°	Onsrud	4KPT5
3/16 in	1/2 in	2 in	1/4 in	22°	Onsrud	4KPT7
1/4 in	3/8 in	2 in	1/4 in	22°	Onsrud	4KPT8
1/4 in	3/4 in	2 1/2 in	1/4 in	22°	Onsrud	4KPT9
1/4 in	1 1/4 in	3 in	1/4 in	22°	Onsrud	4KPU1
3/8 in	3/4 in	3 in	3/8 in	22°	Onsrud	4KPU2
3/8 in	3/4 in	3 in	3/8 in	22°	Onsrud	4KPU4
3/8 in	1 1/8 in	3 in	3/8 in	22°	Onsrud	4KPU5
1/2 in	1 3/8 in	3 1/2 in	1/2 in	22°	Onsrud	4KPU7
1/2 in	1 1/8 in	3 1/2 in	1/2 in	22°	Onsrud	4KPU6
<b>Spiral Upcut</b>						
1/8 in	1/4 in	1 1/2 in	1/8 in	30°	Micro 100	18F020
1/8 in	1/4 in	2 in	1/4 in	30°	Micro 100	18F021
1/8 in	1/4 in	1 1/2 in	1/8 in	30°	Micro 100	18F022
1/8 in	1/4 in	2 in	1/4 in	30°	Micro 100	18F024
1/8 in	1/2 in	1 1/2 in	1/8 in	30°	Micro 100	18F023
1/8 in	1/2 in	2 in	1/4 in	30°	Micro 100	18F025
3/16 in	1/2 in	2 in	3/16 in	30°	Micro 100	18F027
3/16 in	3/8 in	2 in	1/4 in	30°	Micro 100	18F030
1/4 in	3/4 in	2 1/2 in	1/4 in	30°	Micro 100	18F034
1/4 in	1 1/4 in	3 in	1/4 in	30°	Micro 100	18F032
3/8 in	1 1/8 in	3 in	3/8 in	30°	Micro 100	18F035
1/2 in	1 in	3 in	1/2 in	30°	Micro 100	18F037
<b>Carbide Solid Router Bits for Composites</b>						
<b>Spiral Downcut</b>						
1/8 in	3/8 in	1 1/2 in	1/8 in	30°	OSG	33PC26
1/4 in	3/4 in	2 1/2 in	1/4 in	15°	OSG	35DR80
1/4 in	3/4 in	2 1/2 in	1/4 in	30°	OSG	35DR56
1/4 in	3/4 in	2 1/2 in	1/4 in	60°	OSG	35DR86
1/4 in	3/4 in	3 in	1/4 in	45°	OSG	35DR59
1/4 in	3/4 in	3 in	1/4 in	60°	OSG	35DR64
1/4 in	1 in	3 in	1/4 in	15°	OSG	35DR83
3/8 in	7/8 in	3 in	3/8 in	10°	Onsrud	4KPH4
3/8 in	7/8 in	3 in	3/8 in	30°	OSG	35DR57
1/2 in	1 1/8 in	3 1/2 in	1/2 in	10°	Onsrud	4KPH5
1/2 in	1 in	3 in	1/2 in	60°	OSG	35DR89
<b>Spiral Upcut</b>						
1/2 in	1 1/4 in	3 in	1/2 in	10°	Onsrud	4KPH3
<b>Straight Flute</b>						
1/2 in	3/4 in	4 in	1/2 in	0°	Onsrud	4KPP5
<b>Carbide Solid Router Bits for Foam</b>						
<b>Spiral Upcut</b>						
1/8 in	1 1/4 in	2 1/2 in	1/4 in	25°	Onsrud	4KPE3
3/16 in	1 1/8 in	3 in	3/16 in	25°	Onsrud	4KPE4
3/16 in	1 5/8 in	4 in	3/16 in	25°	Onsrud	4KPE5
1/4 in	2 1/4 in	4 in	1/4 in	25°	Onsrud	4KPE6
5/16 in	3 3/8 in	6 in	5/16 in	25°	Onsrud	4KPE7
3/8 in	3 1/2 in	6 in	3/8 in	25°	Onsrud	4KPE8
<b>Carbide Solid Router Bits for General Purpose Applications</b>						
<b>Spiral Downcut</b>						
1/4 in	1 1/4 in	3 in	1/4 in	25°	Micro 100	18F082
3/8 in	1 1/4 in	3 in	3/8 in	25°	Micro 100	18F085
<b>Spiral O-Flute Downcut</b>						
1/8 in	1/2 in	2 in	1/4 in	25°	Onsrud	4KPF1
1/4 in	3/4 in	2 in	1/4 in	25°	Onsrud	4KPF5
3/8 in	1 1/8 in	3 in	3/8 in	25°	Onsrud	4KPF8
<b>Spiral O-Flute Upcut</b>						
1/8 in	1/4 in	2 in	1/8 in	25°	Onsrud	4KPF9
1/8 in	1/4 in	2 in	1/4 in	24°	Onsrud	4KNW2
1/8 in	1/4 in	2 in	1/4 in	25°	Onsrud	4KPG1
1/8 in	1/2 in	2 in	1/4 in	25°	Onsrud	4KPG3
3/16 in	3/8 in	2 in	1/4 in	24°	Onsrud	4KNW5
3/16 in	1 1/4 in	3 in	1/4 in	25°	Onsrud	4KPG5
1/4 in	3/8 in	2 1/2 in	1/4 in	24°	Onsrud	4KNW6
1/4 in	3/8 in	2 in	1/4 in	25°	Onsrud	4KPG6
1/4 in	3/4 in	2 1/2 in	1/4 in	11°	Onsrud	4WAE6
1/4 in	3/4 in	2 1/2 in	1/4 in	24°	Onsrud	4KNW7

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
1/4 in	1/8 in	2 1/2 in	1/4 in	25°	Onsrud	4KPG7
1/4 in	1 1/2 in	3 in	1/4 in	25°	Onsrud	4KPG9
3/8 in	1 in	3 in	3/8 in	11°	Onsrud	4WAE7
3/8 in	1 1/8 in	3 in	3/8 in	24°	Onsrud	4KNW8
3/8 in	1 1/8 in	3 in	3/8 in	25°	Onsrud	4KPH1
1/2 in	1 1/8 in	3 1/2 in	1/2 in	11°	Onsrud	4WAE8
1/2 in	2 1/8 in	4 1/2 in	1/2 in	11°	Onsrud	4WAF1
<b>Spiral Upcut</b>						
1/8 in	1/4 in	2 in	1/4 in	30°	Onsrud	4KPC3
1/8 in	1/2 in	2 in	1/4 in	25°	Micro 100	18F133
1/4 in	3/4 in	2 1/2 in	1/4 in	25°	Micro 100	18F142
<b>Straight Flute</b>						
1/4 in	1 1/4 in	2 1/2 in	1/4 in	0°	OSG	35DA07
1/2 in	1 in	3 in	1/2 in	0°	OSG	35DA19
<b>Straight O-Flute</b>						
1/8 in	3/8 in	2 in	1/4 in	0°	Onsrud	4KNT4
1/8 in	1/2 in	2 in	1/4 in	0°	Onsrud	4KNT5
1/8 in	3/8 in	4 in	1/4 in	0°	Onsrud	4KNT6
5/32 in	3/8 in	2 in	1/4 in	0°	Onsrud	4KNT7
3/16 in	3/8 in	2 in	1/4 in	0°	Onsrud	4KNT9
3/16 in	1 in	4 in	1/4 in	0°	Onsrud	4KNU1
1/4 in	3/4 in	2 1/2 in	1/4 in	0°	Onsrud	4KNU3
1/4 in	1 in	3 1/4 in	1/4 in	0°	Onsrud	4KNU5
1/4 in	1 1/4 in	4 in	1/4 in	0°	Onsrud	4KNU6
<b>Straight V-Flute</b>						
3/8 in	1/2 in	2 1/2 in	3/8 in	0°	Onsrud	4KPC2
<b>Carbide Solid Router Bits for Hard Plastics</b>						
<b>Spiral O-Flute Downcut</b>						
1/8 in	1/2 in	2 in	1/4 in	21°	Onsrud	4KNV1
3/16 in	3/8 in	2 in	1/4 in	21°	Onsrud	4KNV2
1/4 in	3/4 in	2 1/2 in	1/4 in	21°	Onsrud	4KNV3
1/4 in	1 1/2 in	3 in	1/4 in	21°	Onsrud	4KNV5
1/4 in	1 1/4 in	3 in	1/4 in	21°	Onsrud	4KNV4
<b>Spiral O-Flute Upcut</b>						
1/8 in	1/4 in	2 in	1/8 in	21°	Onsrud	4KNW9
1/8 in	1/4 in	2 in	1/4 in	21°	Onsrud	4KNX1
1/8 in	1/2 in	2 in	1/8 in	21°	Onsrud	4KNX4
1/8 in	1/2 in	2 in	1/4 in	21°	Onsrud	4KNX5
5/32 in	3/8 in	2 in	1/4 in	21°	Onsrud	4KNX6
3/16 in	3/8 in	2 in	1/4 in	21°	Onsrud	4KNX7
3/16 in	3/8 in	2 in	3/16 in	21°	Onsrud	4KNX8
3/16 in	3/8 in	2 in	1/4 in	21°	Onsrud	4KNX9
1/4 in	3/4 in	2 1/2 in	1/4 in	21°	Onsrud	4KNY2
1/4 in	1 1/4 in	3 in	1/4 in	21°	Onsrud	4KNY4
1/4 in	1 1/2 in	3 in	1/4 in	21°	Onsrud	4KNY5
3/8 in	1 1/8 in	3 in	3/8 in	21°	Onsrud	4KNY6
1/2 in	1 3/8 in	3 1/2 in	1/2 in	21°	Onsrud	4KNY7
<b>Straight V-Flute</b>						
1/8 in	1/4 in	2 in	1/4 in	0°	Onsrud	4WAF8
3/16 in	3/8 in	2 in	1/4 in	0°	Onsrud	4WAF9
1/4 in	3/4 in	2 1/2 in	1/4 in	0°	Onsrud	4WAG1
3/8 in	1 1/4 in	4 in	1/4 in	0°	Onsrud	4WAG2
3/8 in	1 1/2 in	4 in	3/8 in	0°	Onsrud	4WAG3
<b>Carbide Solid Router Bits for Soft Plastic</b>						
<b>Spiral O-Flute Downcut</b>						
1/8 in	1/2 in	2 in	1/4 in	21°	Onsrud	4KNV7
3/16 in	3/8 in	2 in	1/4 in	21°	Onsrud	12A959
1/4 in	3/4 in	2 1/2 in	1/4 in	21°	Onsrud	4KNV8
1/4 in	1 1/4 in	3 in	1/4 in	21°	Onsrud	4KNV9
1/2 in	1 1/8 in	3 1/2 in	1/2 in	21°	Onsrud	12A961
<b>Spiral O-Flute Upcut</b>						
1/8 in	1/4 in	2 in	1/4 in	21°	Onsrud	4KNY9
1/8 in	1/4 in	2 in	1/4 in	21°	Onsrud	4KNZ1
1/8 in	1/2 in	2 in	1/4 in	21°	Onsrud	4KNZ3
3/16 in	3/8 in	2 in	1/4 in	21°	Onsrud	4KNZ4
1/4 in	3/4 in	2 1/2 in	1/4 in	21°	Onsrud	4KNZ6
1/4 in	1 1/4 in	3 in	1/4 in	21°	Onsrud	4KNZ7
1/4 in	1 1/4 in	3 in	1/4 in	22°	Onsrud	4WAF2
3/8 in	1 1/8 in	3 in	3/8 in	21°	Onsrud	4KNZ8
3/8 in	1 1/8 in	3 1/2 in	3/8 in	21°	Onsrud	4KNZ9
1/2 in	1 1/2 in	4 in	1/2 in	22°	Onsrud	4WAF3
1/2 in	1 1/4 in	4 in	1/2 in	22°	Onsrud	4WAF4
1/2 in	2 1/8 in	4 in	1/2 in	22°	Onsrud	4WAF6
<b>Straight O-Flute</b>						
1/8 in	1/2 in	2 in	1/4 in	0°	Onsrud	4WAG7

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
3/16 in	1/2 in	2 in	1/4 in	0°	Onsrud	4WAG9
3/16 in	1 in	4 in	1/4 in	0°	Onsrud	4WAH1
1/4 in	3/8 in	2 1/2 in	1/4 in	0°	Onsrud	4WAH2
1/4 in	1 in	2 1/2 in	1/4 in	0°	Onsrud	4WAH3
1/4 in	1 in	3 1/4 in	1/4 in	0°	Onsrud	4