



# Router Bits for SIGN MAKING

ALUMINUM • PLASTIC • FOAM • WOOD

## ROUTER BITS FOR MAKING ALUMINUM SIGNS

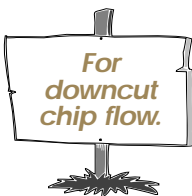


### SOLID CARBIDE SINGLE EDGE DOWNCUT O FLUTE

SERIES 62-600

These spiral O flute tools provide premium finishes in aluminum with fast feed rates and good part hold down.

**Primary Usage:**  
Aluminum Signs



PART #	CED	CEL	SHK DIA	OAL
62-602	1/16	1/4	1/8	1 1/2
62-604	1/8	1/4	1/8	1 1/2
62-606	1/8	1/4	1/4	2
62-610	1/8	1/2	1/4	2
62-612	3/16	3/8	3/16	1 1/2
62-614	3/16	3/8	1/4	2
62-618	3/16	5/8	1/4	2
62-620	1/4	3/8	1/4	2
62-622	1/4	3/4	1/4	2 1/2
62-624	1/4	1 1/4	1/4	3
62-626	3/8	1 1/8	3/8	3

CED TOLERANCE + .000 -.004

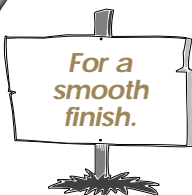
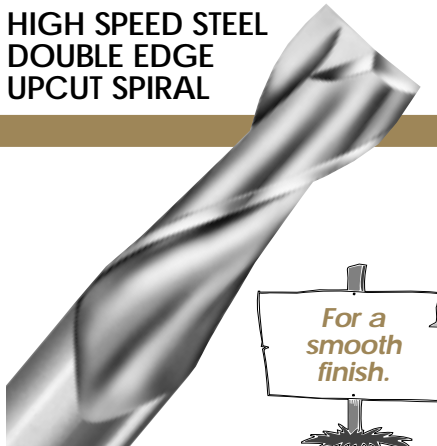


### HIGH SPEED STEEL DOUBLE EDGE UPCUT SPIRAL

SERIES 40-100

These double edge upcut spirals provide a smoother finish when grooving, slotting or blind routing than do single edge tools. They are also recommended for through cuts when fixturing requires upward chip removal.

**Primary Usage:**  
Aluminum Signs



PART #	CED	CEL	SHK DIA	OAL
40-101	1/8	3/8	1/4	2 5/8
40-103	3/16	5/8	1/4	2 7/8
40-107**	1/4	3/4	1/4	2 3/4
40-111**	1/4	1	1/4	3
40-131**	3/8	1	3/8	3
40-143	1/2	1	1/2	3

CED TOLERANCE ± .005 EXCEPT \*\* + .000 - .005

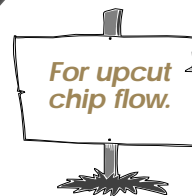
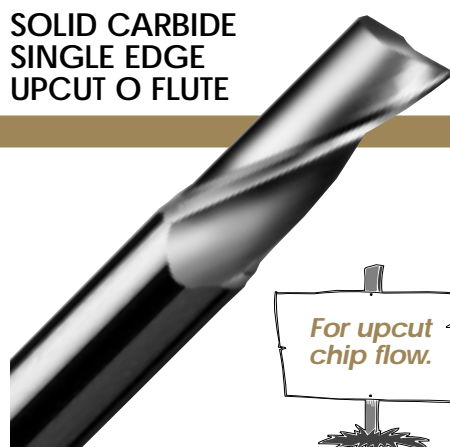


### SOLID CARBIDE SINGLE EDGE UPCUT O FLUTE

SERIES 63-600

These spiral O flute tools provide premium finishes in aluminum with fast feed rates and excellent chip extraction.

**Primary Usage:**  
Aluminum Signs



PART #	CED	CEL	SHK DIA	OAL
63-602	1/16	1/4	1/8	1 1/2
63-604	1/8	1/4	1/8	1 1/2
63-606	1/8	1/4	1/4	2
63-610	1/8	1/2	1/4	2
63-612	3/16	3/8	3/16	1 1/2
63-614	3/16	3/8	1/4	2
63-618	3/16	5/8	1/4	2
63-620	1/4	3/8	1/4	2
63-622	1/4	3/4	1/4	2 1/2
63-624	1/4	1 1/4	1/4	3
63-626	3/8	1 1/8	3/8	3

CED TOLERANCE + .000 -.004



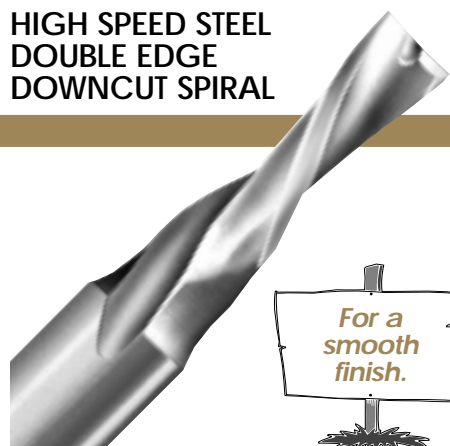
### HIGH SPEED STEEL DOUBLE EDGE DOWNCUT SPIRAL

SERIES 40-100

These double edge downcut spirals provide a smoother finish cut in trimming, sizing and plunging operations than do single edge tools.

They are also recommended when chip flow should be directed down to protect the finish on the top of the material being cut.

**Primary Usage:**  
Aluminum Signs



PART #	CED	CEL	SHK DIA	OAL
40-102	1/8	5/16	1/4	2 5/8
40-104	3/16	5/8	1/4	2 7/8
40-108**	1/4	3/4	1/4	2 3/4
40-112**	1/4	1	1/4	3
40-132**	3/8	1	3/8	3
40-144	1/2	1	1/2	3

CED TOLERANCE ± .005 EXCEPT \*\* + .000 - .005



# ROUTER BITS FOR MAKING PLASTIC SIGNS



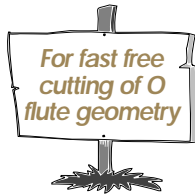
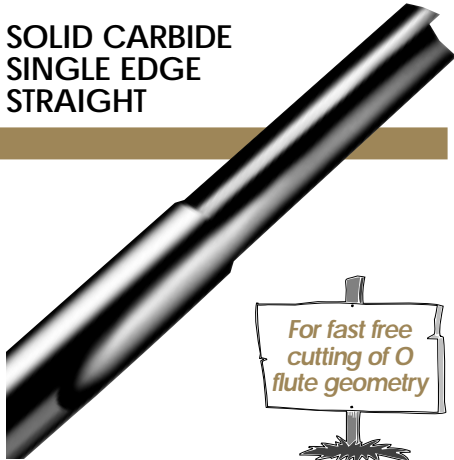
## SOLID CARBIDE SINGLE EDGE STRAIGHT

SERIES 61-000

These carbide tools were developed to combine the fast free cutting of O flute geometry with the tool life available from solid carbide particularly in small diameters. Certain tools in the line were designed specifically to rout softer, ductile plastics, others are of a more general purpose nature.

**Primary Usage:**  
Plastic signs

\*THESE TOOLS ARE  
DESIGNED AND  
TOLERANCED FOR AIR  
ROUTERS WITH GUIDE  
BUSHINGS



L = Left Rotation Tool

PART #	CED	CEL	SHK DIA	OAL
61-041	1/8	5/16	1/4	2
61-042	1/8	1/2	1/4	2
61-042L	1/8	1/2	1/4	2
61-043	1/8	5/8	1/4	4
61-044	1/8	1/2	1/8	2
61-045	1/8	5/8	1/8	3
61-052	5/32	9/16	1/4	2
61-061	3/16	3/8	1/4	2
61-062	3/16	5/8	1/4	2
61-062L	3/16	5/8	1/4	2
61-063*	3/16	1	1/4	4
61-064	3/16	5/8	3/16	2 1/2
61-072	7/32	5/8	1/4	2 1/2
61-081	1/4	3/8	1/4	2 1/2
61-082	1/4	3/4	1/4	2 1/2
61-082L	1/4	3/4	1/4	2 1/2
61-083*	1/4	3/4	1/4	3 1/4
61-083L*	1/4	3/4	1/4	3 1/4
61-085*	1/4	1	1/4	3 1/4
61-084*	1/4	1 1/4	1/4	4
61-121	3/8	5/8	3/8	2 1/2
61-122	3/8	7/8	3/8	2 1/2
61-123*	3/8	1 5/8	3/8	6
61-162	1/2	1	1/2	3
61-164	1/2	1 5/8	1/2	4
61-166	1/2	2 1/8	1/2	6

CED TOLERANCE + .000 -.004

▣ = NEW TOOL



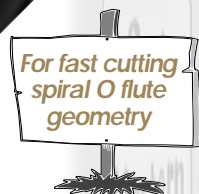
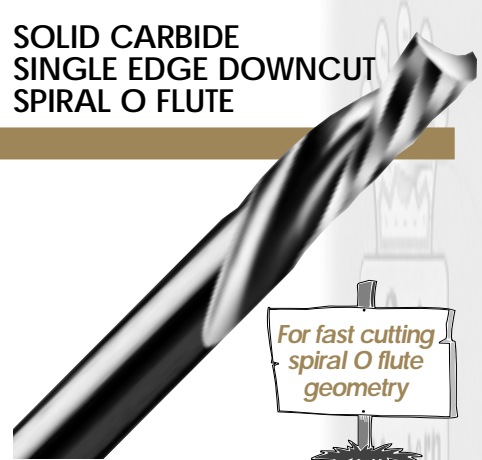
## SOLID CARBIDE SINGLE EDGE DOWNCUT SPIRAL O FLUTE

SERIES 62-700

These single edge spiral O flute tools provide a smooth finish in **RIGID** plastics with downward chip removal

**Primary Usage:**  
Hard, rigid plastic signs

**Secondary Usage:**  
Soft, flexible plastic signs



PART #	CED	CEL	SHK DIA	OAL
62-712	1/8	1/2	1/4	2
62-713	1/8	1/2	1/8	2
62-715	5/32	9/16	1/4	2
62-718	3/16	5/8	1/4	2
62-719	3/16	5/8	3/16	2
62-720	7/32	3/4	1/4	2 1/2
62-725	1/4	3/4	1/4	2 1/2
62-726	1/4	1 1/4	1/4	3
62-733	3/8	1 1/8	3/8	3

CED TOLERANCE + .000 -.004

▣ = NEW TOOL



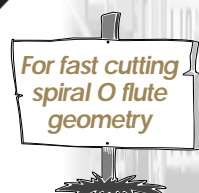
## SOLID CARBIDE SINGLE EDGE DOWNCUT SPIRAL O FLUTE

SERIES 62-750

These single edge spiral O flute tools provide a smooth finish in **SOFT** plastics with downward chip removal.

**Primary Usage:**  
Soft, flexible plastic signs

**Secondary Usage:**  
Hard, rigid plastic signs



PART #	CED	CEL	SHK DIA	OAL
62-762	1/8	1/2	1/4	2
62-763	1/8	1/2	1/8	2
62-768	3/16	5/8	1/4	2
62-769	3/16	5/8	3/16	2
62-775	1/4	3/4	1/4	2 1/2
62-776	1/4	1 1/4	1/4	3
62-783	3/8	1 1/8	3/8	3

CED TOLERANCE + .000 -.004

▣ = NEW TOOL





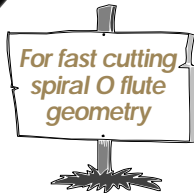
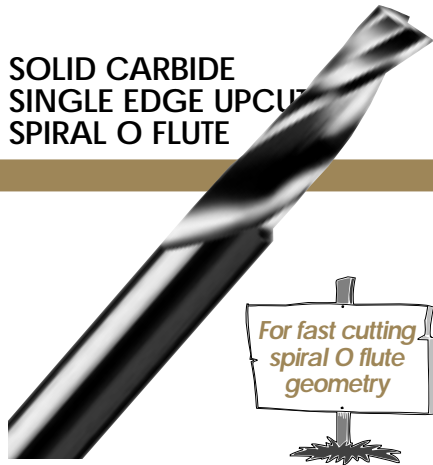
## SOLID CARBIDE SINGLE EDGE UPCUT SPIRAL O FLUTE

SERIES 63-700

These single edge spiral O flute tools provide a smooth finish in **RIGID** plastics with upward chip removal.

**Primary Usage:**  
Hard, rigid plastic signs

**Secondary Usage:**  
Soft, flexible plastic signs



PART #	CED	CEL	SHK DIA	OAL
63-700	1/16	1/4	1/4	2
63-701	1/16	1/4	1/8	2
63-710	1/8	1/4	1/4	2
63-711	1/8	1/4	1/8	2
63-712	1/8	1/2	1/4	2
63-713	1/8	1/2	1/8	2
63-715	5/32	9/16	1/4	2
63-716	3/16	3/8	3/16	2
63-717	3/16	3/8	1/4	2
63-718	3/16	5/8	1/4	2
63-719	3/16	5/8	3/16	2
63-720	7/32	3/4	1/4	2 1/2
63-724	1/4	3/8	1/4	2
63-725	1/4	3/4	1/4	2 1/2
63-726	1/4	1 1/4	1/4	3
63-733	3/8	1 1/8	3/8	3

CED TOLERANCE + .000 - .004

NEW TOOL



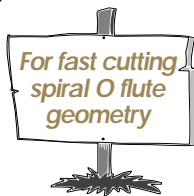
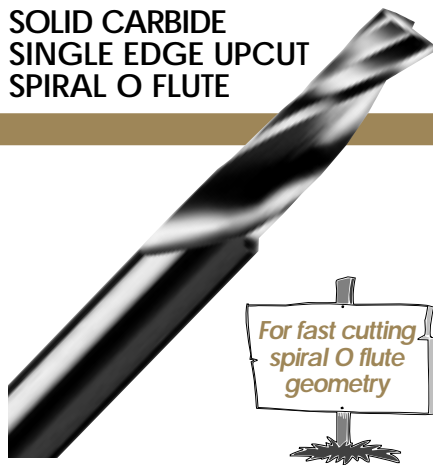
## SOLID CARBIDE SINGLE EDGE UPCUT SPIRAL O FLUTE

SERIES 63-750

These single edge spiral O flute tools provide a smooth finish in **SOFT** plastics with upward chip removal.

**Primary Usage:**  
Soft, flexible plastic signs

**Secondary Usage:**  
Hard, rigid plastic signs



PART #	CED	CEL	SHK DIA	OAL
63-750	1/16	1/4	1/4	2
63-751	1/16	1/4	1/8	2
63-760	1/8	1/4	1/4	2
63-761	1/8	1/4	1/8	2
63-762	1/8	1/2	1/4	2
63-763	1/8	1/2	1/8	2
63-766	3/16	3/8	3/16	2
63-767	3/16	3/8	1/4	2
63-768	3/16	5/8	1/4	2
63-769	3/16	5/8	3/16	2
63-774	1/4	3/8	1/4	2
63-775	1/4	3/4	1/4	2 1/2
63-776	1/4	1 1/4	1/4	3
63-783	3/8	1 1/8	3/8	3

CED TOLERANCE + .000 - .004

NEW TOOL

## ROUTER BITS FOR MAKING FOAM SIGNS



## SOLID CARBIDE DOUBLE EDGE STRAIGHT

SERIES 56-000

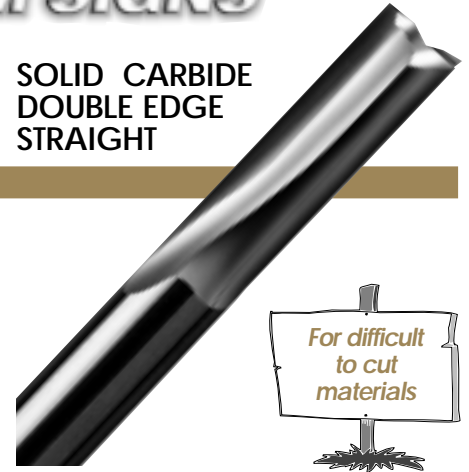
These carbide tools were developed as a general purpose tool to rout difficult to cut materials particularly in small diameters. Certain tools in the line were designed specifically

to rout harder, more rigid plastics.

**Primary Usage:**  
Wood composites, thin laminated materials and rigid plastics

**Secondary Usage:**  
Other composite materials

\*THESE TOOLS ARE DESIGNED AND TOLERANCED FOR AIR ROUTERS WITH GUIDE BUSHINGS CED + .000 - .006



L = Left Rotation Tool

PART #	CED	CEL	SHK DIA	OAL
56-041	1/8	1/4	1/4	2
56-061	3/16	3/8	1/4	2
56-062	3/16	5/8	1/4	2
56-062L	3/16	5/8	1/4	2
56-063*	3/16	5/8	1/4	4
56-081	1/4	3/8	1/4	2 1/2
56-082	1/4	3/4	1/4	2 1/2
56-082L	1/4	3/4	1/4	2 1/2
56-086*	1/4	1 1/4	1/4	4
56-121	3/8	5/8	3/8	2 1/2
56-122	3/8	7/8	3/8	2 1/2
56-122L	3/8	7/8	3/8	2 1/2
56-124*	3/8	1 5/8	3/8	6
56-162	1/2	1	1/2	3
56-162L	1/2	1	1/2	3
56-164	1/2	2 1/8	1/2	6

CED TOLERANCE +.000 - .004

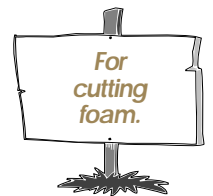


## HIGH SPEED STEEL UPCUT SPIRAL

SERIES 40-550

These 4-flute spiral tools are designed to cut thicker pieces of foam with upward chipflow

**Usage:**  
Foam



PART #	CED	CEL	SHK DIA	OAL
40-562	1/2	3 5/8	1/2	6
40-564	1/2	4 1/8	1/2	6 1/2



## ROUTER BITS FOR MAKING PLYWOOD SIGNS



### CARBIDE TIPPED DOUBLE EDGE STRAIGHT

SERIES 48-000

These carbide tipped tools are designed for general usage where superior balance and vibration free cutting provide a smoother finish along with long tool life.

**Primary Usage:**  
Plywood signs



PART #	CED	CEL	SHK DIA	OAL
48-000	3/16	1/2	1/4	2
48-006	1/4	7/8	1/4	2 3/8
48-012	3/8	3/4	1/4	2 1/4
48-114	1/2	1	1/4	2 1/4

CED TOLERANCE + .000 - .005

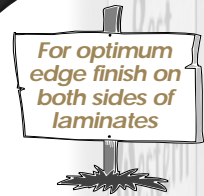


### SOLID CARBIDE COMPRESSION UP/DOWN SPIRAL

SERIES 60-100

**Single Edge**  
Upcut/downcut design for fast feed rates and optimum edge finish on both sides of laminated materials.

**Primary Usage:**  
Plywood signs



PART #	CED	CEL	SHK DIA	OAL
60-110	1/4	7/8	1/4	2 1/2
60-120	3/8	1 1/8	3/8	3
60-160	1/2	1	1/2	3

CED TOLERANCE + .000 - .004

## ROUTER BITS FOR MAKING SOLID WOOD SIGNS

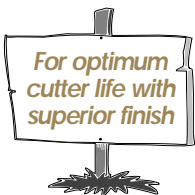


### SOLID CARBIDE DOUBLE EDGE STRAIGHT WOOD ROUT

SERIES 56-200

These double edge wood routs in straight flute configuration provide a superior finish in a variety of materials and provide optimum cutter life.

**Primary Usage:**  
Solid wood signs



PART #	CED	CEL	SHK DIA	OAL
56-260	3/16	3/4	1/4	2
56-280	1/4	7/8	1/4	2 1/2
56-320	3/8	1 1/8	3/8	3
56-360	1/2	1 1/8	1/2	3

CED TOLERANCE +.000 - .004

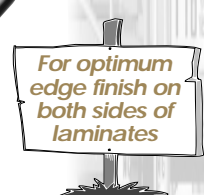


### SOLID CARBIDE COMPRESSION UP/DOWN SPIRAL

SERIES 60-100

**Double Edge**  
Upcut/downcut design for fast feed rates and optimum edge finish on both sides of laminated materials.

**Primary Usage:**  
Solid wood signs



PART #	CED	CEL	SHK DIA	OAL
60-124	3/8	1 1/8	3/8	3
60-169	1/2	1 1/8	1/2	3
60-171	1/2	1 3/8	1/2	3 1/2

CED TOLERANCE + .000 - .004



**Onsrud  
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