

# Carbide Insert Tooling

*Carolina Specialty Tools, Inc. is a manufacturer of standard and custom carbide insert tooling. We have the latest in CNC - Lathes, Mills, Profile Grinders. With our design and manufacturing capabilities, CST can provide your company with the most cost effective carbide insert tooling available. We can also duplicate your existing inserts. Give us a call to start saving money on your carbide insert tooling.*



**CNC Profile Grinder**



**Ground to Pattern Inserts**



**Log Home Tooling**

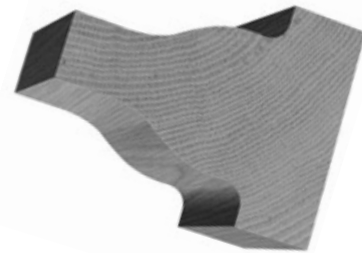
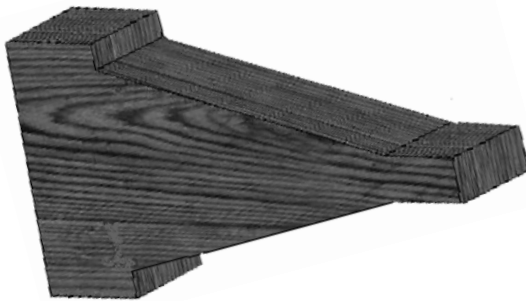


# Interior & Exterior Door Tooling

---



- *Dedicated tool bodies for superior support.*
- *Cutters can be designed with 2 or 3 wings.*
- *2 wing cutters will give excellent quality cut with 33% less cost on insert replacement versus 3 wing cutters*
- *Custom profiles available*

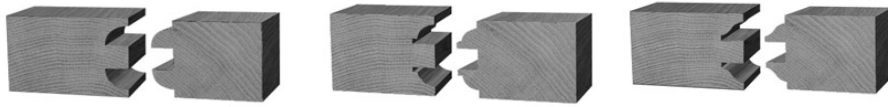


## INTERIOR/EXTERIOR DOOR RAISED PANEL CUTTERHEADS

*The cutterhead set consists of top and bottom cutterheads, one set of inserts and three spacers to cut a 1/4", 1/2" and 5/8" tenon.*

*Please call for a quote.*

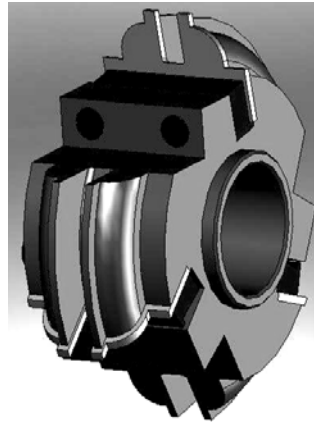
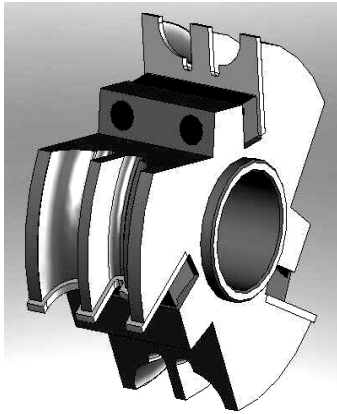
# Interior & Exterior Door Tooling



Shape "A"

Shape "B"

Shape "C"



Shape "A", Shape "B" Or Shape "C"

- *Dedicated tool bodies for superior support.*
- *Cutters can be designed with 2 or 3 wings.*
- *2 wing cutters will give excellent quality cut with 33% less cost on insert replacement versus 3 wing cutters*
- *Custom profiles available for HSK, Shapers & Moulders*

## INTERIOR/EXTERIOR DOOR CUTTERHEADS

Cutterhead	Tongue	Groove
Description	Width	Depth
Cope Cutterhead - 1 3/8" Door	1/4"	1/2"
Rail Cutterhead - 1 3/8" Door	1/4"	1/2"
Cope Cutterhead - 1 3/4" Door	1/2"	1/2"
Rail Cutterhead - 1 3/4" Door	1/2"	1/2"
Cope Cutterhead - 2 1/4" Door	1/2"	1/2"
Rail Cutterhead - 2 1/4" Door	1/2"	1/2"

Please call for a quote

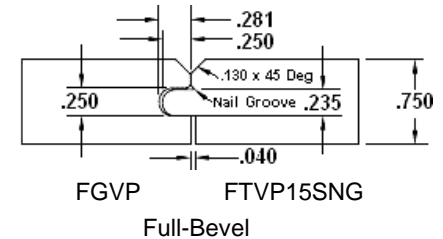
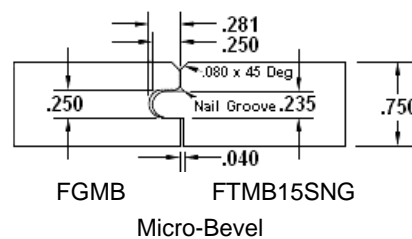
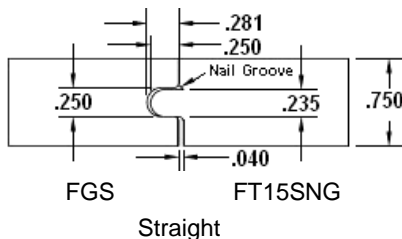
# Flooring/Paneling Cutterheads



## FLOORING/PANELING CUTTERHEADS

Part Number	Cutterhead Description	Small DIA	CEL	ID
F125SM383G	Groove Cutterhead	125mm	30mm	1 1/2"
F125SM383T	Tongue Cutterhead	125mm	30mm	1 1/2"
F125SM403G	Groove Cutterhead	125mm	30mm	40mm
F125SM403T	Tongue Cutterhead	125mm	30mm	40mm
F140SM463G	Groove Cutterhead	140mm	30mm	1 13/16"
F140SM463T	Tongue Cutterhead	140mm	30mm	1 13/16"

Inserts are ordered separately - see the listing below.



**Make sure to order the appropriate inserts.**

**Please contact us for custom profiles.**

## FLOORING/PANELING INSERTS

Face Down - Inserts		Inserts Description
Part Number (with nail groove)	Part Number (without nail groove)	
	FGS	Groove Straight
	FGMB	Groove Straight - Micro Bevel
	FGVP	Groove Straight - V Panel
FT05SNGD	FT05SD	Tongue Straight - .005" Gap
FT15SNGD	FT15SD	Tongue Straight - .015" Gap
FTMB05NGD	FTMB05D	Tongue Straight - Micro Bevel - .005" Gap
FTMB15NGD	FTMB15D	Tongue Straight - Micro Bevel - .015" Gap
FTVP05NGD	FTVP05D	Tongue Straight - V Panel - .005" Gap
FTVP15NGD	FTVP15D	Tongue Straight - V Panel - .015" Gap

Face Up bodies and inserts are available upon request.

Phone: 866-770-8665 - [www.carolinatools.com](http://www.carolinatools.com) - Fax: 866-418-8665

# Crown Moulding Angle Cutterheads

*Cut your crown moulding angle and trim the width with one cutterhead set. Both cutterheads use inexpensive double side carbide inserts. The straight and the angle cutterheads can be used for S4S applications - Simply crank your spindles up and down or use the cutterheads individually. The cutterheads are designed to run on the left or right spindles of your moulder.*

## CROWN MOULDING ANGLE CUTTERHEAD SET (2 wings)

Individual Part Number	Set Consists Of The Following Description	OD	CEL	ID
C160312A	Multi-Angle Cutterhead	160mm	50mm	1 1/4"
C130312T	Straight Cutterhead	130mm	50mm	1 1/4"
C160402A	Multi-Angle Cutterhead	160mm	50mm	40mm
C130402T	Straight Cutterhead	130mm	50mm	40mm
C170462A	Multi-Angle Cutterhead	170mm	50mm	1 13/16"
C140462T	Straight Cutterhead	140mm	50mm	1 13/16"

Replacement Inserts for above - ICK7006

Also available in sets



## Cutterhead Maximum and Minimum Dimension Ranges

Head Diameter			Maximum Cutting Circle	Angle Cutting Edge Length	Straight Cutting Edge Length
160mm	Minimum Angle	20°	175.41mm(6.906")	24.16mm(.951")	44.73mm(1.761")
	Maximum Angle	60°	178.56mm(7.030")	48.56mm(1.912")	34.59mm(1.362")
170mm	Minimum Angle	20°	188.57mm(7.424")	24.16mm(.951")	44.73mm(1.761")
	Maximum Angle	60°	181.94mm(7.163")	48.56mm(1.912")	34.59mm(1.362")

Phone: 866-770-8665 - [www.carolinatools.com](http://www.carolinatools.com) - Fax: 866-418-8665

# Insert Router Bits



## FLUSH TRIM INSERT BITS

Part Number	Cutting Diameter	Cut Length	Shank	OAL	Insert
CIFT-71214	3/4"	12 mm	1/4"	2 1/4"	ICK7001
CIFT-71212	3/4"	12 mm	1/2"	2 1/2"	ICK7001
CIFT-73012	3/4"	30 mm	1/2"	3 3/16"	ICK7004
CIFT-74012	3/4"	40 mm	1/2"	3 5/8"	ICK7005
CIFT-75012	3/4"	50 mm	1/2"	3 15/16"	ICK7006



## 1 FLUTE INSERT STRAIGHT BITS

Part Number	Cutting Diameter	Cut Length	Shank	OAL	Insert
CIS1-73012	3/4"	30mm	1/2"	3 3/8"	ICK7004
CIS1-74012	3/4"	40mm	1/2"	3 3/8"	ICK7005



## 2 FLUTE INSERT STRAIGHT BITS

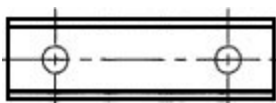
Part Number	Cutting Diameter	Cut Length	Shank	OAL	Insert
CST3END	3/4"	30mm	1/2"	3"	ICK7004
CST2END	3/4"	30mm	3/4"	3"	ICK7004
CST4END	3/4"	30mm	5/8"	3"	ICK7004
CST8END	3/4"	40mm	3/4"	4 1/4"	ICK7006
CST5END	3/4"	50mm	3/4"	4"	ICK7005
CST10END	1"	30mm	1/2"	3"	ICK7004

## INSERT COMPRESSION BITS - 2+2

Part Number	Cutting Diameter	Cut Length	Shank	OAL	Insert
CST6END	1 1/4"	40 mm	3/4"	3 3/4"	ICK7005
CST7END	1 1/4"	50 mm	3/4"	4 1/2"	ICK7006

*Without plunge point*

## COMPONENT PARTS



Part Number	Description	Pack	Sides
ICK7001	12 x 12 x 1.5	10	4 Sided
ICK7004	30 x 12 x 1.5	10	2 Sided
ICK7005	40 x 12 x 1.5	10	2 Sided
ICK7006	50 x 12 x 1.5	10	2 Sided
1100014	T15 X 80 Torx Wrench		
1200006	Torx Screw 3.5 x 5		



# CNC Insert Cope & Rail Router Bits

## COPE (STILE) & RAIL (STICK) CUTTER

### 3/4" SHANK - FACE DOWN

(2 Wings - 2" Small Cutting Circle - 3" Large Cutting Circle - 3 5/8" OAL)

#### Bodies

Part Number	Description
CSTCR-D	Cope (Stile - Face Down)
CSTRR-D	Rail (Stick - Face Down)

The CNC Router Bits and Shaper Cutters bodies fit all three styles of inserts and use the same inserts.

#### Inserts (Sold each)

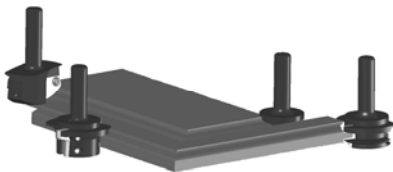
Part Number	Description
CST01CRD	Round Insert - Cope (Stile - Face Down)
CST01RRD	Round Insert - Rail (Stick - Face Down)
CST02CRD	Bead Insert - Cope (Stile - Face Down)
CST02RRD	Bead Insert - Rail (Stick - Face Down)
CST03CRD	Ogee Insert - Cope (Stile - Face Down)
CST03RRD	Ogee Insert - Rail (Stick - Face Down)



Face Down Rail



Face Down Cope



## COPE (STILE) & RAIL (STICK) CUTTER

### 3/4" SHANK - FACE UP

(2 Wings - 2" Small Cutting Circle - 3" Large Cutting Circle - 3 5/8" OAL)

#### Bodies

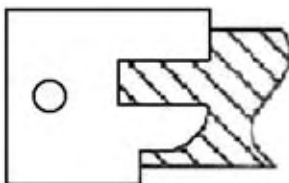
Part Number	Description
CSTCR	Cope (Stile - Face Up)
CSTRR	Rail (Stick - Face Up)

The CNC Router Bits and Shaper Cutters bodies fit all three styles of inserts and use the same inserts.

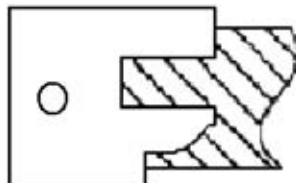
#### Inserts (Sold each)

Part Number	Description
CST01-C	Round Insert - Cope (Stile - Up)
CST01-R	Round Insert - Rail (Stick - Up)
CST02-C	Bead Insert - Cope (Stile - Face Up)
CST02-R	Bead Insert - Rail (Stick - Face Up)
CST03-C	Ogee Insert - Cope (Stile - Face Up)
CST03-R	Ogee Insert - Rail (Stick - Face Up)

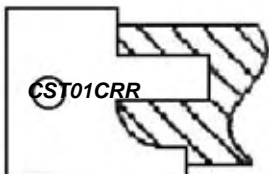
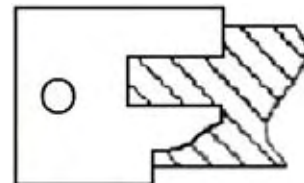
CST01CDR



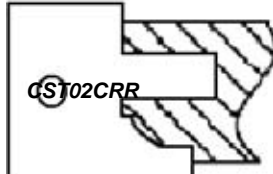
CST02CDR



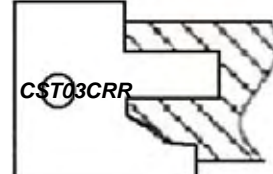
CST03CDR



CST01CRR

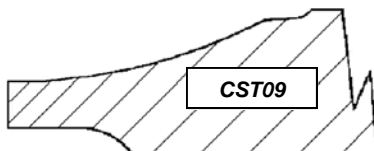
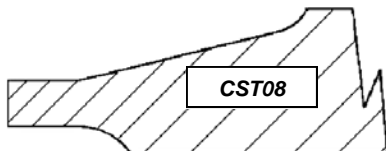
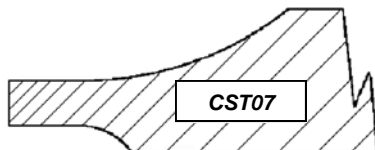


CST02CRR



CST03CRR

# CNC Insert Raised Panel & Door Edge Cutters



## RAISED PANEL CUTTER

### FACE UP - CW ROTATION

(2 Wings - 3 1/2" Large Cutting Circle - 4" OAL, 3/4" shank)

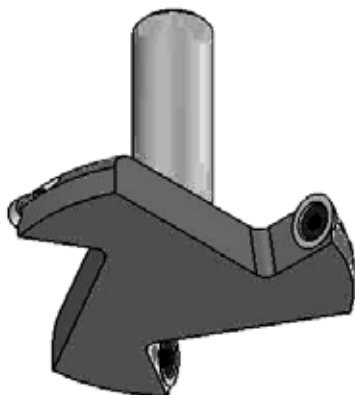
#### Bodies

Part Number	Description
CSTRPR	Raised Panel Cutter

The CNC Router Bits and Shaper Cutters bodies fit all three styles of inserts and use the same inserts.

#### Inserts (Sold each)

Part Number	Description
CST07	Round Raised Panel
CST08	Straight Raised Panel
CST09	Ogee Raised Panel

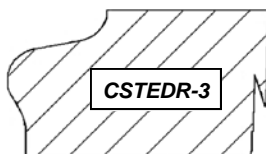
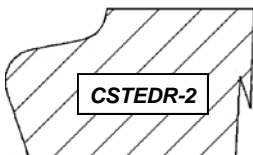
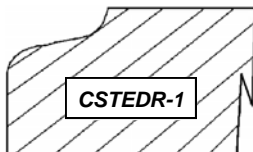


## UNDERCUT CUTTER

### FACE UP

(3 Wings - 3 1/2" OD - 3" OAL)

Part Number	Description
CSTBPIR	Undercut Router Cutter
ICK7007	13.5x2.5 Round Insert for above



## DOOR EDGE CUTTER

### FACE UP - CCW ROTATION

(2 Wings - 2" Small Cutting Circle - 3" Large Cutting Circle  
3/4" shank - 3 5/8" OAL)

#### Bodies

Part Number	Description
CSTEDR	Door Edge Cutter

The CNC Router Bits and Shaper Cutters bodies fit all three styles of inserts and use the same inserts.

#### Inserts & Backer Plates (Sold each)

Part Number	
Insert	Backer Plate
CSTEDR-1	CSTEDR1B
CSTEDR-2	CSTEDR2B
CSTEDR-3	CSTEDR3B



# Cabinet Door Insert Cutters

## Unique™ & E-Z™ Door Machine Cutters

### 3 WING COPE (STILE) & RAIL (STICK) CUTTER

Cope & Stick Cutters - 4" Large Cutting Circle x 3 Wings x 1 1/4" Bore

Raised Panel Cutters - 6" Large Cutting Circle x 3 Wings x 1 1/4" Bore



CSTC1



CSTR1

Body Part Number	Description	Insert Part Number		
CSTC1	Cope (Stile - Face Down)	CST01-C	CST02-C	CST03-C
CSTR1	Rail (Stick - Face Down)	CST01-R	CST02-R	CST03-R
CSTSC	Shaker - Cope (Stile)	CST12		
CSTRSR	Shaker - Rail (Stick)	CST11		
CSTEDC	Door Edge Cutter	CSTDE-1	CSTDE-2	CSTDE-3
	Door Edge Backers	CSTDE-1B	CSTDE-2B	CSTDE-3B
CSTRP-6	Raised Panel Cutter	CST07	CST08	CST09
CSTTRIM-6	Trim Cutter	ICK7007		
CSTBP-6	Back Panel Cutter	ICK8005		

### Raised Panel Cutter for Unique™ & E-Z™ Door Machine

(Available Face Up or Face Down)

Raised Panel Cutter - 7 1/2" Large Cutting Circle x 3 Wings x 1 1/4" Bore

Trim Cutter - 4" Diameter x 3 Wings x 1 1/4" Bore

Back Panel Cutter - 5 3/4" Large Cutting Circle x 3 Wings x 1 1/4" Bore



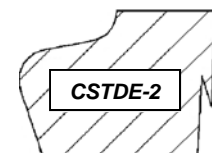
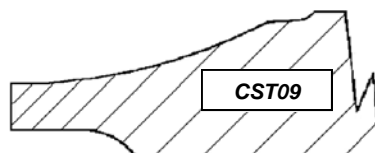
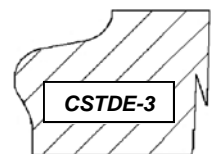
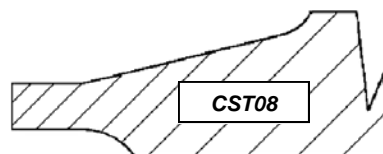
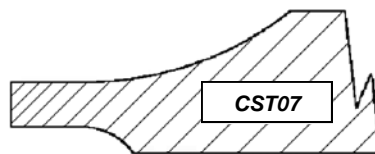
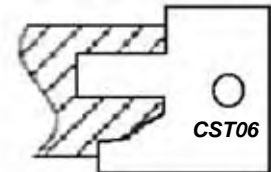
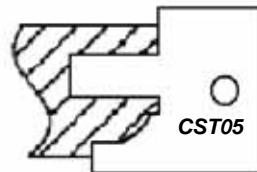
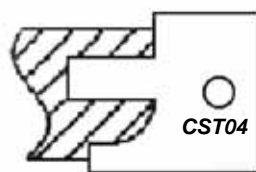
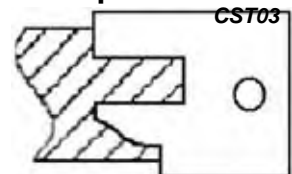
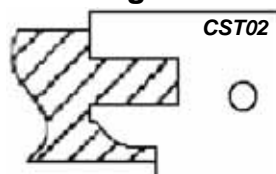
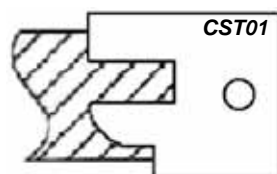
CSTSC

Body Part Number	Description	Insert Part Number		
CSTRP1	Raised Panel Cutter (Face Down)	CST07	CST08	CST09
CSTRP1-U	Raised Panel Cutter (Face Up)	CST07-U	CST08-U	CST09-U
CSTTRIM	Trim Cutter	ICK7007		
CSTBPR	Back Panel Cutter	ICK8005		



CSTSR

\*\*\*The above tooling will also run on shapers.



CSTEDC



CSTRP-6/CSTTRIM-6/CSTBP-6