

Series 7000

INSERT V-GROOVE CUTTERS 45° ANGLE (90° INCLUDED ANGLE)

A series of insert router bits ideal for v-groove operations where the material is to be folded! The angle of the insert is constant and accurate right down to the point of the tool. The 45° angle inserts are indexable. Tool body comes complete and ready to use with insert, screws, and wrench.



PART #	DIAMETER	DEPTH OF CUT	SHK DIA	INSERT #
7050	1.50	.730	1/2	IVB-30
7055	2.25	1.00	1/2	IVB-40
7060	2.25	1.00	3/4	IVB-40
7065	3.00	1.25	3/4	IVB-50

REPLACEMENT PARTS

67115 - Screws

7000W - Wrench

22.5° Angle (45° Included Angle)
30° Angle (60° Included Angle)
60° Angle (120° Included Angle)



PART #	DIAMETER	DEPTH OF CUT	SHK DIA	ANGLE	INSERT #
7075	2.00	.625	1/2	22.5°	IVB-10
7080	2.00	1.00	1/2	22.5°	IVB-20
7085	2.00	.966	1/2	30°	IVB-20
7090	3.437	.911	3/4	60°	IVB-50

REPLACEMENT PARTS

67115 - Screws

7000W - Wrench

Series 7000

INSERT SPOILBOARD CUTTERS

Used for surfacing MDF, particle board, and balsa core. The straight-face design provides a fast and clean cut. The body has been designed so that the insert remains in place and does not “pivot” on the cutter. Available in two or three wing geometries and 1/2” or 3/4” shank diameters.



PART #	DIAMETER	DEPTH OF CUT	SHK DIA	# WINGS
7025	2 1/2	1/2	1/2	2
7030	3	1/2	3/4	3
7040	4	1/2	3/4	3

REPLACEMENT PARTS

- 67116 - Screws
- 13273 - Inserts (sold in boxes of 10)
- 7001W - Wrench

Series 8000

HSK63F INTEGRATED SPOILBOARD CUTTERS

Vortex is now offering our spoilboard cutters with our newly developed “integrated” tool design. This series is a solid, one piece unit with the HSK63F taper “built in” to the tool. The one piece design affords superior performance and years of worry-free use, which will greatly reduce wear and tear on your machine spindle over time.



PART #	DIAMETER	DEPTH OF CUT	TAPER	FLANGE LENGTH	# WINGS
8030	3	1/2	HSK63F	85mm	3
8040	4	1/2	HSK63F	85mm	3
8045	4	1/2	HSK63F	115mm	3

R REPLACEMENT PARTS

- 67116 - Screws
- 13273 - Inserts (sold in boxes of 10)
- 7001W - Wrench

Flat Table Dovetail Drawer System

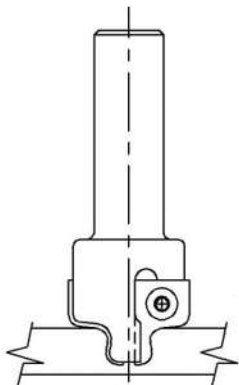
Now you have the ability to use your flat table router to make Dovetail Drawer Boxes. This "tooling system" will allow users to quickly and easily make dovetail drawer components with a nested base format. Available in two dovetail designs: the traditional square edge and the new rounded edge. The body is manufactured to accept both styles of insert and has a 3/4" shank diameter. Sold separately or as a kit.



KIT #7500 - Round Edge

Includes:

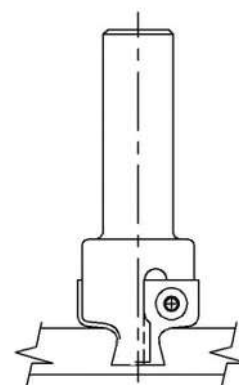
- Insert Body 9101
- 4 - INS-9101 Inserts
- 2 - 3115 (1/4" compression spirals)



KIT #7600 - Square Edge

Includes:

- Insert Body 9101
- 4 - INS-9282 Inserts
- 2 - 3115 (1/4" compression spirals)

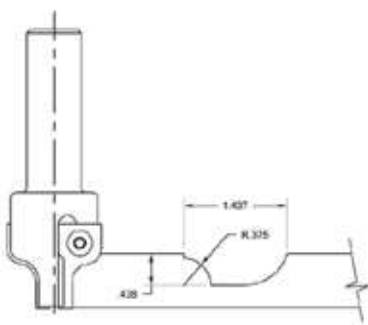


**Also available in 5/8" and 1/2" shank diameters upon request

Series 7900

FOUR PIECE INSERT MDF DOOR SET

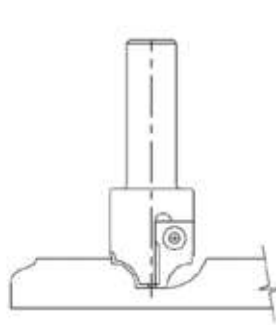
By using tools in combination, you can create solid doors with the appearance of five-piece construction. By selecting a few different patterns, you can mix and match profiles to make hundreds of different door designs. This set comes complete with four insert bodies and the inserts shown below. All tools have a 3/4" shank diameter. Also sold separately, see pages 72-75.



MDF Raise Outside Door Edge

Body Part #7962
Insert Part #INS-7962

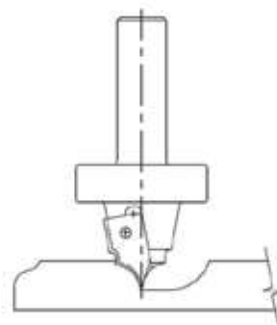
(Five other Outside Door Edge profiles available, see page 72)



MDF Raise Inside Rough

Body Part #7964
Insert Part #INS-7964

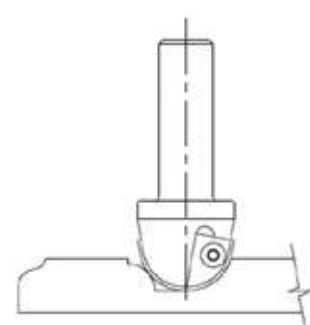
(1/4" radius Inside Rough profile also available, see page 73)



MDF Raise Inside Corner Cleaner

Body Part #7965
Insert Part #INS-7965

(1/4" radius Corner Cleaner profile also available, see page 73)



MDF Raise Raised Panel

Body Part #7963
Insert Part #INS-7963

(See page 74)

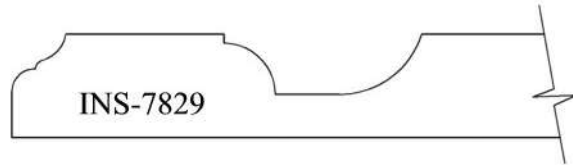
MDF Outside Door Edges

BODY PART #7962

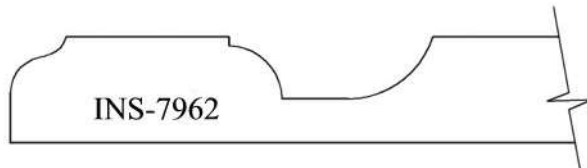
Designed so that one body accepts all outside door edge profiles! Our outside edge router bit separates and profiles at the same time. We have utilized our unique capture groove system to maintain a small cutting diameter while providing two cutting edges. This tool has a 3/4" shank diameter with a 1/2" small diameter and is designed to cut through .010" on 3/4" thick material.



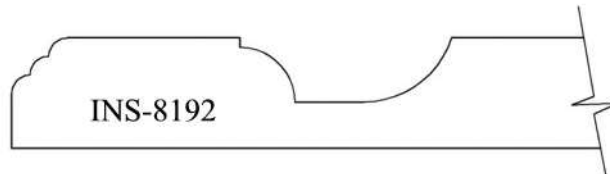
INSERT PART #
INS-7829



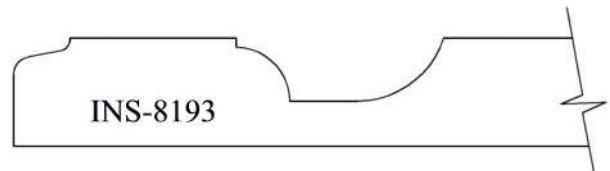
INSERT PART #
INS-7962



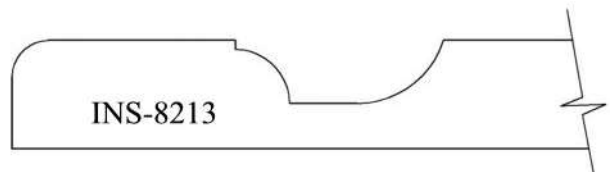
INSERT PART #
INS-8192



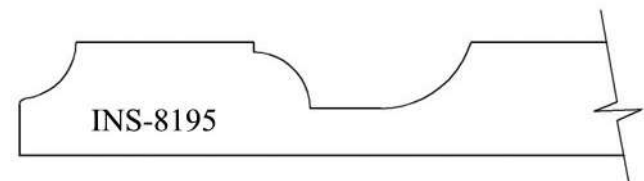
INSERT PART #
INS-8193



INSERT PART #
INS-8213



INSERT PART #
INS-8195



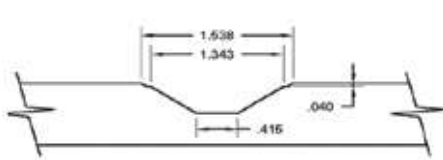
MDF Inside Door Profiles

INSIDE ROUGHING PROFILE

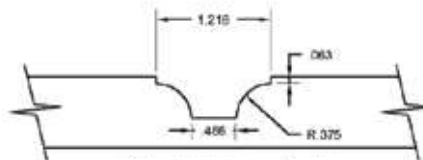
These "multiple" pass cutter sets can be used in combination to rough out and corner clean to provide the appearance of a square inside corner. Combine with a raised panel cutter to complete the look of a five-piece assembled door. Bead profile (7964) will accept both a small bead (1/4" radius) or a large bead (3/8" radius) insert so one tool can do both profiles.



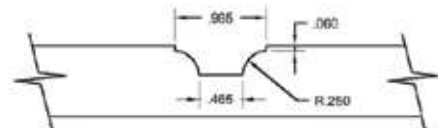
BODY PART #	INSERT PART #	SHANK DIAMETER	INSIDE PROFILE
7960	INS-7960	3/4	Bevel
7964	INS-7964	3/4	Large Bead (3/8"R)
7964	INS-9358	3/4	Small Bead (1/4"R)



7960 - Inside Bevel Profile



7964 - Inside Large Bead



7964 - Inside Small Bead

Inside Corner Cleaning Profiles

Used to clean the inside corners after the above tool has "roughed out" the material. This tool will create the look of a five-piece assembled door.



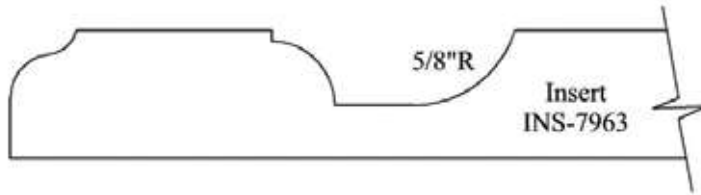
BODY PART #	INSERT PART #	SHANK DIAMETER	INSIDE PROFILE
7961	INS-7961	3/4	Bevel
7965	INS-7965	3/4	Large Bead (3/8"R)
7965	INS-9357	3/4	Small Bead (1/4"R)

MDF Panel Raise Profiles

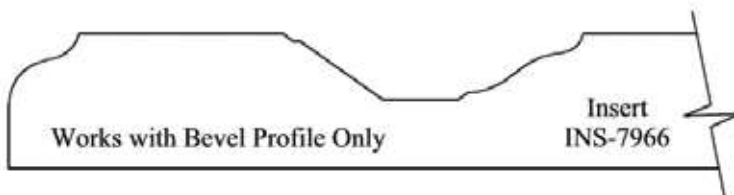
Complete your MDF door and add even more detail by selecting from one of the following panel raise patterns. All cutters are balanced to a G2.5 or better rating. These cutters are designed to be used in conjunction with the “multiple pass” inside profiles found on page 73.



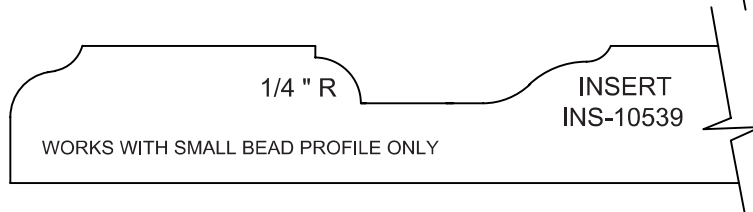
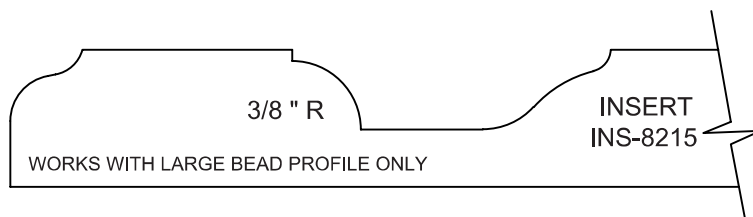
BODY PART #	INSERT PART #	SHANK DIAMETER
7963	INS-7963	3/4



BODY PART #	INSERT PART #	SHANK DIAMETER
7966	INS-7966	3/4



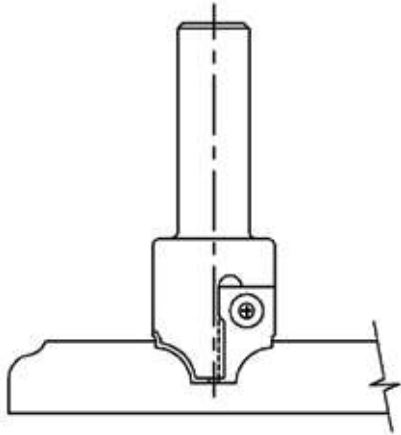
BODY PART #	INSERT PART #	SHANK DIAMETER
8215	INS-8215	3/4
8215	INS-10539	3/4



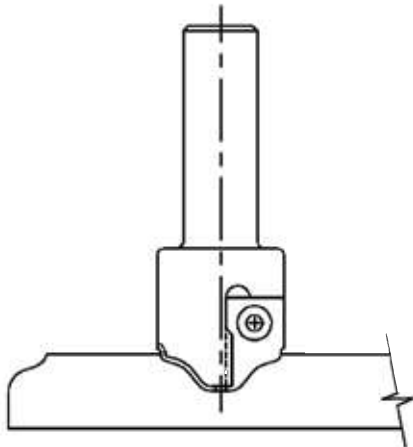
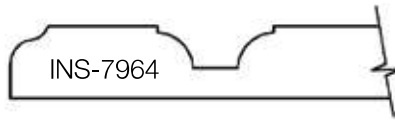
One Pass MDF Door Profiles

BODY PART #7964

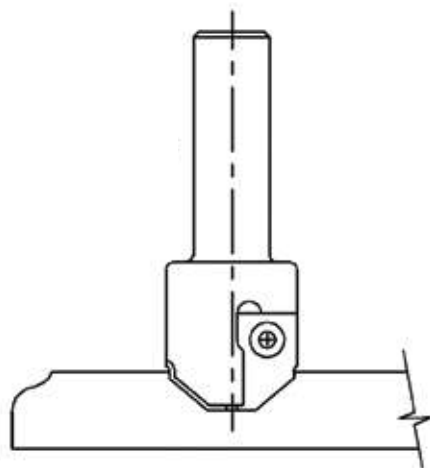
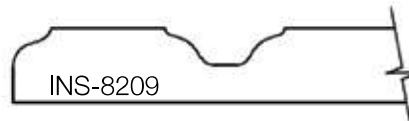
This two flute insert MDF door cutter can be run in a single pass to create the appearance of a raised panel door. Designed so one body accepts all profiles. Tool is manufactured with a 3/4" shank diameter. Please verify which profile insert should be included in body at time of purchase.



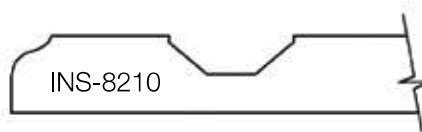
INSERT PART #
INS-7964



INSERT PART #
INS-8209



INSERT PART #
INS-8210



Series 8200

INSERT ROUND OVER

These tools have been designed to round over the top edge of your material. Our unique capture groove allows this series of tools to maintain small cutting diameters, yet provides two cutting edges. These bodies are designed so that they will accept all five inserts! Specify which set of inserts is to be included with the original body purchase.



PART #	DESCRIPTION	SMALL DIAMETER	RADIUS	SHANK DIAMETER
8200	Insert Body	1/2		1/2
8205	Insert Body	1/2		3/4
INS-8200	Replacement Insert		1/8	
INS-8201	Replacement Insert		3/16	
INS-8202	Replacement Insert		1/4	
INS-8203	Replacement Insert		5/16	
INS-8204	Replacement Insert		3/8	

**1/16" radius inserts available upon request - body modification is required

REPLACEMENT PARTS

67114 - Screws

7000W - Wrench

INSERT ROUND & ROUT

Unique "capture" groove allows this series of insert tools to maintain small cutting diameters, while still providing two cutting edges. Designed to cut .010" through on 3/4" material and top edge round. It is recommended that you ramp in or start off the part when using this tool. Tool is designed so that one body accepts all five inserts! Specify which set of inserts is to be included with the original body purchase.



PART #	DESCRIPTION	SMALL DIAMETER	RADIUS	SHANK DIAMETER
8210	Insert Body	1/2		1/2
8211	Insert Body	1/2		3/4
INS-8211	Replacement Insert		1/8	
INS-8212	Replacement Insert		3/16	
INS-8213	Replacement Insert		1/4	
INS-7830	Replacement Insert		5/16	
INS-8214	Replacement Insert		3/8	

**1/16" radius inserts available upon request - body modification is required

REPLACEMENT PARTS

67114 - Screws

7000W - Wrench

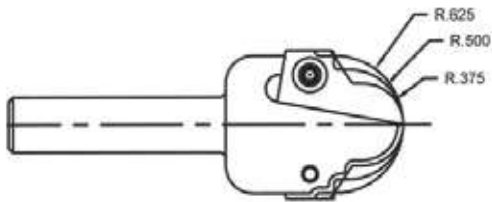
Series 8200

MULTIPROFILE BALLNOSE INSERT BODY

This "multiprofile" insert tool body has been designed so that one body will accept three different sized radii. For use when larger diameter fluting is required or as cove profiles are needed. Precision insert design provides superior cut quality (particularly at the point) and greatly improved cutter life.



PART #	DESCRIPTION	COVE DIA	SHANK DIA	RADIUS
8220	Insert Body		1/2	
INS-8220	Insert	3/4		3/8
INS-8221	Insert	1		1/2
INS-8222	Insert	1 1/4		5/8

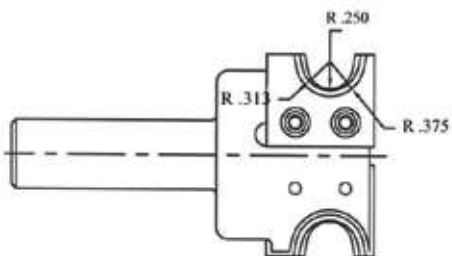


MULTIPROFILE BULL NOSE INSERT BODY

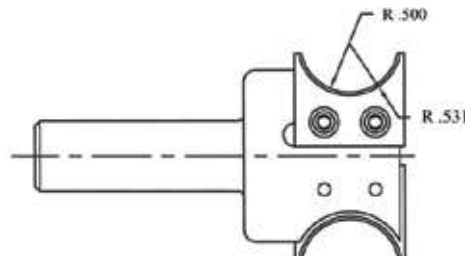
These insert cutters are designed to perfectly bull nose the material sizes shown, providing superior cut quality only precision insert tooling can provide. Two multiprofile tool bodies are available from stock and will accept multiple different radii inserts to fit your needs.



PART #	DESCRIPTION	SHANK DIA	MATERIAL THICKNESS
8230	Insert Body	3/4	1/2" thru 3/4"
8240	Insert Body	3/4	1" thru 1 1/16"
INS-8230	1/4" Radius Insert - Body 8230		1/2"
INS-8231	5/16" Radius Insert - Body 8230		5/8"
INS-8232	3/8" Radius Insert - Body 8230		3/4"
INS-8240	1/2" Radius Insert - Body 8240		1"
INS-8241	17/32" Radius Insert - Body 8240		1 1/16"



Body 8230 for material thickness of 1/2" to 3/4"



Body 8240 for material thickness of 1" to 1 1/16"

Series 8300

INSERT SHAKER DOOR CUTTER

Two wing insert design with upshear angle can be used to quickly “rough out” the center panel area of a Shaker Style MDF Door. The user would then use a series of smaller diameter tooling to “square up” the inside corners of the recessed panel area. Insert cutter sold separately or as a kit with the tools shown below.



PART #	BODY DIA	DEPTH OF CUT	SHK DIA	# WINGS	OAL
8300	1 1/4	1/2	1/2	2	3.189

REPLACEMENT PARTS

- 13276 - Inserts (sold in boxes of 10)
- 67116 - Screws
- 7001W - Wrench



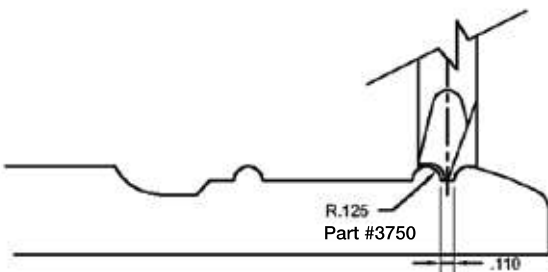
KIT #8310

Includes:

- Insert Body - 8300
- Box of 10 Replacement Inserts - 13276
- 1 - 3850 - 1/2” 60° V-Groove Bit
- 1 - 3189 - 1/2” Mortise Compression
- 2 - 1310 - 1/8” Downcut

SOLID CARBIDE BEADING PROFILES

This tool series can be used to create various sized “raised beads” by taking one pass on each side of the radius. The small diameter of the tool makes it very desirable for MDF doors.



PART #	SMALL DIA	RADIUS	SHK DIA	OAL
3750	.110	.125	1/2	3
3760	.110	.187	1/2	3
3770	.110	.250	1/2	3

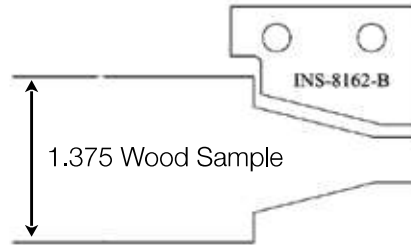
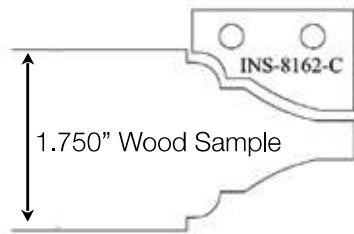
Series 8500

ONE SIDED INSERT RAISED PANEL DOOR CUTTER

This raised panel design will create a raised profile on one side of your entry door and is manufactured to accept two different insert profiles. This profile tool is also available with an integrated HSK63F taper. This tool design results in less weight, better balance, less run out, and never having to change collets again.



BODY #	BEVEL INSERT #	COPE INSERT #	SHANK DIA
8550	INS-8162	INS-8163	3/4"
8560	INS-8162	INS-8163	HSK63F Taper



Series 8500

MULTIPROFILE INSERT ENTRY WAY DOOR CUTTERS - GLASS PROFILE

These multiprofile insert tools are designed to take a full pass and have .005" fit tolerance between cope and stick patterns. Door profiles are available on page 81. Insert bodies are balanced to a G2.5 or better rating and can be used on conventional CNC routers. One set of inserts is included with the purchase of the body. These cutters are available in either a 3/4" straight shank or an integrated HSK63F taper.

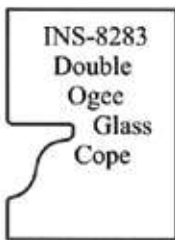


“MULTIPROFILE” COPE GLASS

PART #	DESCRIPTION
8510	3/4" Shank Body
8520	HSK 63F Integrated Body
INS-8283	Dbl Ogee Glass Cope Insert
INS-8284	Bevel Glass Cope Insert
INS-8285	Bead Glass Cope Insert

“MULTIPROFILE” STICK GLASS

PART #	DESCRIPTION
8515	3/4" Shank Body
8525	HSK 63F Integrated Body
INS-8282	Dbl Ogee Glass Stick Insert
INS-8286	Bevel Glass Stick Insert
INS-8287	Bead Glass Stick Insert



Series 8500

MULTIPROFILE INSERT ENTRY WAY DOOR CUTTERS - DOOR PROFILES

These multiprofile insert tools are designed to take a full pass and have .005" fit tolerance between cope and stick patterns. Glass profiles also available on page 80. Insert bodies are balanced to a G2.5 rating or better and can be used on conventional CNC routers. One set of inserts is included with the purchase of the body. These cutters are available in a 3/4" straight shank or an integrated HSK63F taper.

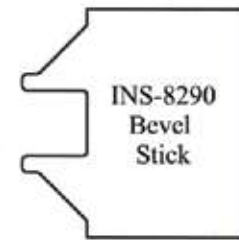


“MULTIPROFILE” COPE DOOR

PART #	DESCRIPTION
8530	3/4" Shank Body
8540	HSK 63F Integrated Body
INS-8280	Dbl Ogee Cope Door Insert
INS-8288	Bevel Cope Door Insert
INS-8289	Bead Cope Door Insert

“MULTIPROFILE” STICK DOOR

PART #	DESCRIPTION
8535	3/4" Shank Body
8545	HSK 63F Integrated Body
INS-8281	Dbl Ogee Stick Door Insert
INS-8290	Bevel Stick Door Insert
INS-8291	Bevel Stick Door Insert



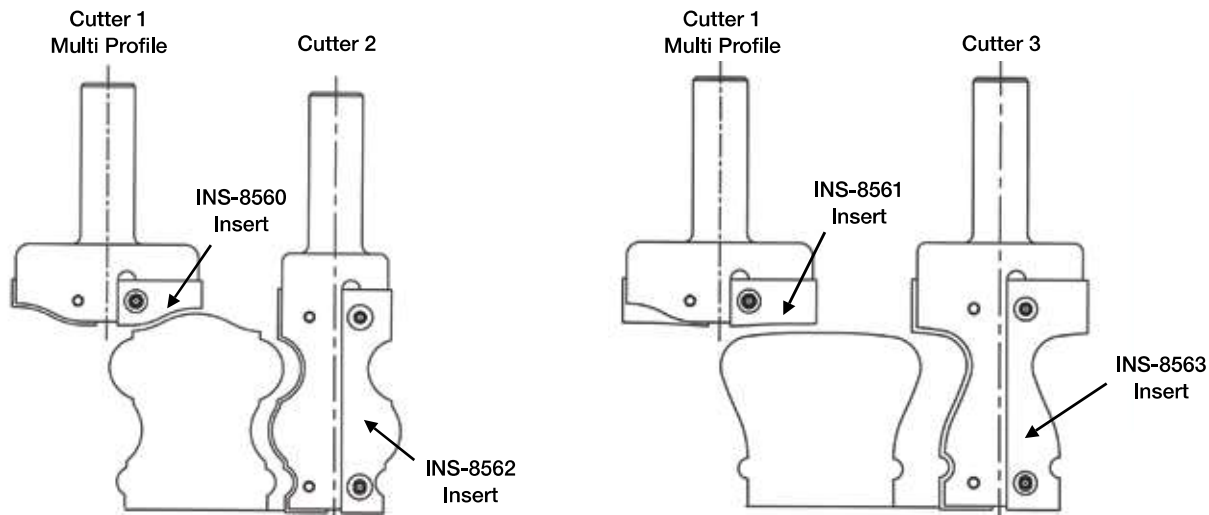
Series 8500

INSERT HAND RAIL CUTTER SETS

A set of three cutters will produce the two different hand rails shown. These sets are available with either a straight 3/4" shank or an integrated HSK 63F taper. Cutters are supplied with a complete set of inserts to do both profiles at the time of purchase.

PART #	DESCRIPTION	SHANK
8565	3 Piece Hand Rail Set - Shank Style	3/4
8570	3 Piece Hand Rail Set - Integrated Style	HSK 63F Taper
INS-8560	Replacement Insert for Cutter #1 - Profile	
INS-8561	Replacement Insert for Cutter #1 - Straight	
INS-8562	Replacement Insert for Cutter #2	
INS-8563	Replacement Insert for Cutter #3	

Part #8565 - 3pc Insert Handrail Set - 3/4" Shank Diameter



Part #8570 - 3pc Insert Handrail Set - Integrated w/HSK 63F Taper

